



engineering and constructing a better tomorrow

May 26, 2009

Mr. David Dorian  
U.S. EPA, Region 4  
On-Scene Coordinator  
61 Forsyth Street, S.W. (11th Floor)  
Atlanta, Georgia 30303

RE: Mills Gap Groundwater Contamination Site  
CERCLA Docket No. CER-04-2004-3755  
Monthly Progress Report, Number 60  
Near Skyland, Buncombe County, North Carolina  
MACTEC Project 6690-03-9450

Dear Mr. Dorian:

In accordance with the Administrative Order on Consent (AOC) and Scope of Work for the removal action at the Mills Gap Groundwater Contamination Site, enclosed for your review is the progress report for the month of April 2009.

If you have any questions, please feel free to call either Marv Gobles at (574) 293-7511, or me at (828) 252-8130.

Sincerely,

A handwritten signature in cursive script that reads "Matthew E. Wallace".

Matthew E. Wallace, P.E.  
Project Coordinator

Attachments

cc: Marvin Gobles, CTS Corporation  
Elizabeth Bottorff Ahlemann, CTS Corporation  
Michael F. Dolan, Esq., Jones Day  
William Clarke, Robert & Stevens, P.A.

# **Mills Gap Groundwater Contamination Site**

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## **Monthly Progress Report**

**Reporting Period: April 2009**

**CERCLA Docket No. CER-04-2004-3755**

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This monthly report has been prepared in accordance with requirements specified in the Scope of Work (SOW) contained in the Administrative Order on Consent (AOC) for Removal Action issued by the USEPA.

### **1) Significant developments during the preceding period:**

- On April 29, 2009, MACTEC submitted the March 2009 monthly progress report to USEPA.
- Operational and maintenance activities were performed and an air sample was collected from the soil vapor extraction (SVE) system discharge on March 20, 2009. An estimated 331 pounds of volatile organic compounds (VOCs) were removed by the SVE system in March 2009.
- Activities related to implementing the Supplemental Removal Action Plan were performed including installation of ozone injection points, connection of injection points to ozone generation equipment, field testing of ozone generation equipment, and collection of pilot study baseline spring/surface water and ambient air samples.

### **2) Developments from the present reporting period:**

- Operational and maintenance activities were performed and an air sample was collected from the SVE system discharge on April 21, 2009. The SVE system operated for approximately 417 hours during the month of April 2009. An estimated 136 pounds of VOCs were removed by the SVE system in April 2009. There is an overall decreasing concentration trend of VOCs since the system's initial operation, as anticipated. Analytical data from the SVE air discharge sampling received during the period includes:
  - SGS Environmental Services, Inc. Report G132-2043, dated May 7, 2009 (sample collected April 21, 2009).
- An estimated 5,796 pounds of VOCs have been removed by the SVE system since its initial operation on July 20, 2006.
- The following activities related to implementing the Supplemental Removal Action Plan were performed:
  - Start up of ozone injection system;
  - Collection of monthly spring and surface water samples; and
  - Operational and maintenance activities related to the ozone pilot study equipment.

### **3) Developments anticipated during the next reporting period:**

- Monthly scheduled operational and maintenance activities will be performed for the SVE system.
- Monthly air sampling of the SVE system air discharge will be performed.
- Scheduled operational and maintenance activities related to the ozone pilot study will be performed.
- Monthly spring/surface water sampling related to the ozone injection pilot study will be performed.



Susan Kelly  
Mactec  
1308C Patton Ave.  
Asheville, NC 28806

Report Number: G132-2043

Client Project: Mills Gap Road

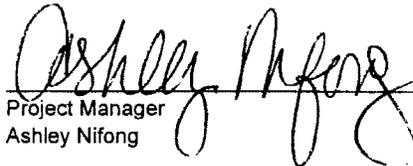
Dear Susan Kelly,

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Ashley Nifong at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,  
SGS Environmental Services, Inc.

  
Project Manager  
Ashley Nifong

  
Date

List of Reporting Abbreviations  
And Data Qualifiers

- B = Compound also detected in batch blank
- BQL = Below Quantification Limit (RL or MDL)
- DF = Dilution Factor
- Dup = Duplicate
- D = Detected, but RPD is > 40% between results in dual column method.
- E = Estimated concentration, exceeds calibration range.
- J = Estimated concentration, below calibration range and above MDL
- LCS(D) = Laboratory Control Spike (Duplicate)
- MDL = Method Detection Limit
- MS(D) = Matrix Spike (Duplicate)
- PQL = Practical Quantitation Limit
- RL/CL = Reporting Limit / Control Limit
- RPD = Relative Percent Difference
- mg/kg = milligram per kilogram, ppm, parts per million
- ug/kg = micrograms per kilogram, ppb, parts per billion
- mg/L = milligram per liter, ppm, parts per million
- ug/L = micrograms per liter, ppb, parts per billion
- % Rec = Percent Recovery
- % solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

**Results for Volatiles in Air**  
by GC/MS

Client Sample ID: MG42B-4/21/2009  
Client Project ID: Mills Gap Road  
Lab Sample ID: G132-2043-4A  
Lab Project ID: G132-2043

Analyzed By: DCS  
Date Collected: 4/21/2009 13:39  
Date Received: 4/22/2009  
Matrix: Air

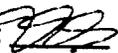
Compound	Result mg/m3	Quantitation Limit mg/m3	Dilution Factor	Date Analyzed
Benzene	BQL	0.4	1	5/6/2009
Bromochloromethane	BQL	0.4	1	5/6/2009
Bromodichloromethane	BQL	0.4	1	5/6/2009
Bromoform	BQL	0.4	1	5/6/2009
Carbon tetrachloride	BQL	0.4	1	5/6/2009
Chlorobenzene	BQL	0.4	1	5/6/2009
Chloroform	BQL	0.4	1	5/6/2009
Dibromochloromethane	BQL	0.4	1	5/6/2009
1,2-Dibromoethane (EDB)	BQL	0.4	1	5/6/2009
1,2-Dichlorobenzene	BQL	0.4	1	5/6/2009
1,3-Dichlorobenzene	BQL	0.4	1	5/6/2009
1,4-Dichlorobenzene	BQL	0.4	1	5/6/2009
1,1-Dichloroethane	BQL	0.4	1	5/6/2009
1,1-Dichloroethene	BQL	0.4	1	5/6/2009
1,2-Dichloroethane	BQL	0.4	1	5/6/2009
cis-1,2-Dichloroethene	BQL	0.4	1	5/6/2009
trans-1,2-dichloroethene	BQL	0.4	1	5/6/2009
1,2-Dichloropropane	BQL	0.4	1	5/6/2009
cis-1,3-Dichloropropene	BQL	0.4	1	5/6/2009
trans-1,3-Dichloropropene	BQL	0.4	1	5/6/2009
Diisopropyl ether	BQL	0.4	1	5/6/2009
Ethylbenzene	BQL	0.4	1	5/6/2009
Methyl-tert-butyl ether	BQL	0.4	1	5/6/2009
Styrene	BQL	0.4	1	5/6/2009
1,1,2,2-Tetrachloroethane	BQL	0.4	1	5/6/2009
Tetrachloroethene	BQL	0.4	1	5/6/2009
Toluene	BQL	0.4	1	5/6/2009
Trichloroethene	BQL	0.4	1	5/6/2009
1,1,1-Trichloroethane	BQL	0.4	1	5/6/2009
1,1,2-Trichloroethane	BQL	0.4	1	5/6/2009
m-,p-Xylene	BQL	0.8	1	5/6/2009
o-Xylene	BQL	0.4	1	5/6/2009

**Comments:**

Quantitation at 25°C and 1 atm.

**Flags:**

BQL = Below quantitation limit.

Reviewed By: 



**CHAIN OF CUSTODY RECORD**  
**SGS Environmental Services Inc.**

- Locations Nationwide
- Alaska
  - Hawaii
  - Ohio
  - Maryland
  - New Jersey
  - North Carolina
  - West Virginia
- www.us.sgs.com 0933332

1 CLIENT: **MACTEC**  
 CONTACT: **Susan Kelly** PHONE NO.:(828) 252-8130  
 PROJECT: **Mills Gap Road** SITE/PWSID#:  
 REPORTS TO: **1308 Patton Ave** E-MAIL: **Sekelly@macte.com**  
**Asheville, NC 28806** FAX NO.:(828) 251-9690  
 INVOICE TO: QUOTE #  
 P.O. NUMBER **200816692**

SGS Reference: **4132-2043** PAGE **1** OF **1**

No	SAMPLE TYPE	Preservatives Used	Analysis Required	KAO	REMARKS
CONTAINERS					
1	S		③	✓	VOCs (8260) DR0 (8015)
1	S			✓	
1	S				
1	S				

5 Collected/Relinquished By: (1) **R. W. [Signature]** Date **4-21-09** Time **1700**  
 Received By: **[Signature]** Date **4/21/09** Time **1323**  
 Relinquished By: (2) **[Signature]** Date **4-21-09** Time **1339**  
 Relinquished By: (3) Date **4-21-09** Time **1339**  
 Relinquished By: (4) Date **4-21-09** Time **1339**

Shipping Carrier: **Fed Ex** Samples Received Cold? (Circle) YES **NO**  
 Shipping Ticket No: **864012589** Temperature (C): **18.5**  
 Special Deliverable Requirements: Chain of Custody Seal: (Circle) **INTACT** **BROKEN** **ABSENT**  
 Special Instructions: **Assume 10 liters of air**  
**A = initial tube B = breakthrough tube**  
 RUSH  STD Date Needed \_\_\_\_\_

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 582-2343 Fax: (907) 581-5301  
 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1803 Fax: (910) 350-1557  
 1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0781  
 White - Retained by Lab  
 Yellow - Returned with Report  
 Pink - Retained by Sampler