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sent to file  
OK for reporter.*

March 19, 2008

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 45  
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 January 2008.

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

Sincerely,

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: January 2008**

**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 February 8, 2008, MACTEC submitted the December 2007 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 December 21, 2007. An estimated 195 pounds of volatile organic compounds (VOCs) were discharged from the SVE system operation in December 2007.
- An approximate 1,100-foot long chain-link fence was constructed at the spring area east of the Site. Signs indicating the hazardous nature of the water in the fenced area were posted.

### **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 January 22, 2008. An estimated 162 pounds of VOCs were discharged from SVE system operation in January 2008. The SVE system operated for approximately 202 hours during the month of January 2008. The analytical data indicates increased VOC recovery from July to January 2008 (i.e., relative to results from the first six months of 2007). This general increased recovery in the later half of 2007 and early 2008 is presumably because of a lowering of the water table, which is a result of regional drought conditions (i.e., contamination formerly below the 'normal' water table was exposed and recovered by the SVE system). 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 G132-1859, dated January 30, 2008 (sample collected January 22, 2008).
- An estimated 2,667 pounds of VOCs have been discharged from the SVE system since its initial operation on July 20, 2006.
- On January 10, 2008, MACTEC submitted a removal action evaluation for the springs east of the Site.

### **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.



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

Report Number: G132-1859

Client Project: CTS-Mills Gap

Dear Ms. Kelly:

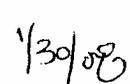
Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period 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 the services performed during this project, please call SGS 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 which you may have.

Sincerely,  
SGS Environmental Services, Inc.

  
Laboratory Director  
R. Kendall Sutler

  
Date





## List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation 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 = Reporting 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 Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: MG-27A (and B) 1/22/08 (13:31)

Client Project ID: CTS-Mills Gap

Lab Sample ID: G132-1859-1 and -2

Lab Project ID: G132-1859

Analyzed By: EAW

Date Collected: 1/22/2008 13:31

Date Received: 1/24/2008

Matrix: Air

<b>Analyte</b>	<b>Result mg/m<sup>3</sup></b>	<b>RL mg/m<sup>3</sup></b>	<b>Prep Method</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Initial Tube: Diesel Range Organics	36.25	10	MM18	1	01/24/08
<b>Analyte</b>	<b>Result mg/m<sup>3</sup></b>	<b>RL mg/m<sup>3</sup></b>	<b>Prep Method</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Breakthrough tube: Diesel Range Organics	14.56	4	MM18	1	01/24/08

Comments:

Flags:



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

Client Sample ID: MG-27A 1/22/08 Front Half  
Client Project ID: CTS-Mills Gap  
Lab Sample ID: G132-1859-3A  
Lab Project ID: G132-1859

Analyzed By: DES  
Date Collected: 1/22/2008 13:45  
Date Received: 1/24/2008  
Matrix: Air

Compound	Result mg/m3	Quantitation Limit mg/m3	Dilution Factor	Date Analyzed
Benzene	BQL	10.0000	10	1/29/2008
Bromochloromethane	BQL	10.0000	10	1/29/2008
Bromodichloromethane	BQL	10.0000	10	1/29/2008
Bromoform	BQL	10.0000	10	1/29/2008
Carbon tetrachloride	BQL	10.0000	10	1/29/2008
Chlorobenzene	BQL	10.0000	10	1/29/2008
Chloroform	BQL	10.0000	10	1/29/2008
Dibromochloromethane	BQL	10.0000	10	1/29/2008
1,2-Dibromoethane (EDB)	BQL	10.0000	10	1/29/2008
1,2-Dichlorobenzene	BQL	10.0000	10	1/29/2008
1,3-Dichlorobenzene	BQL	10.0000	10	1/29/2008
1,4-Dichlorobenzene	BQL	10.0000	10	1/29/2008
1,1-Dichloroethane	BQL	10.0000	10	1/29/2008
1,1-Dichloroethene	BQL	10.0000	10	1/29/2008
1,2-Dichloroethane	BQL	10.0000	10	1/29/2008
cis-1,2-Dichloroethene	BQL	10.0000	10	1/29/2008
trans-1,2-dichloroethene	BQL	10.0000	10	1/29/2008
1,2-Dichloropropane	BQL	10.0000	10	1/29/2008
cis-1,3-Dichloropropene	BQL	10.0000	10	1/29/2008
trans-1,3-Dichloropropene	BQL	10.0000	10	1/29/2008
Diisopropyl ether	BQL	10.0000	10	1/29/2008
Ethylbenzene	BQL	10.0000	10	1/29/2008
Methyl-tert-butyl ether	BQL	10.0000	10	1/29/2008
Styrene	BQL	10.0000	10	1/29/2008
1,1,2,2-Tetrachloroethane	BQL	10.0000	10	1/29/2008
Tetrachloroethene	BQL	10.0000	10	1/29/2008
Toluene	BQL	10.0000	10	1/29/2008
Trichloroethene	<b>485</b>	10.0000	10	1/29/2008
1,1,1-Trichloroethane	<b>35</b>	10.0000	10	1/29/2008
1,1,2-Trichloroethane	BQL	10.0000	10	1/29/2008
m-,p-Xylene	BQL	20.0000	10	1/29/2008
o-Xylene	BQL	10.0000	10	1/29/2008

**Comments:**

Quantitation at 25°C and 1 atm.

**Flags:**

BQL = Below quantitation limit.

Reviewed By: 

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

Client Sample ID: MG-27B 1/22/08 Back Half  
Client Project ID: CTS-Mills Gap  
Lab Sample ID: G132-1859-4A  
Lab Project ID: G132-1859

Analyzed By: DES  
Date Collected: 1/22/2008 13:45  
Date Received: 1/24/2008  
Matrix: Air

Compound	Result mg/m3	Quantitation Limit mg/m3	Dilution Factor	Date Analyzed
Benzene	BQL	0.4000	1	1/29/2008
Bromochloromethane	BQL	0.4000	1	1/29/2008
Bromodichloromethane	BQL	0.4000	1	1/29/2008
Bromoform	BQL	0.4000	1	1/29/2008
Carbon tetrachloride	BQL	0.4000	1	1/29/2008
Chlorobenzene	BQL	0.4000	1	1/29/2008
Chloroform	BQL	0.4000	1	1/29/2008
Dibromochloromethane	BQL	0.4000	1	1/29/2008
1,2-Dibromoethane (EDB)	BQL	0.4000	1	1/29/2008
1,2-Dichlorobenzene	BQL	0.4000	1	1/29/2008
1,3-Dichlorobenzene	BQL	0.4000	1	1/29/2008
1,4-Dichlorobenzene	BQL	0.4000	1	1/29/2008
1,1-Dichloroethane	BQL	0.4000	1	1/29/2008
1,1-Dichloroethene	BQL	0.4000	1	1/29/2008
1,2-Dichloroethane	BQL	0.4000	1	1/29/2008
cis-1,2-Dichloroethene	BQL	0.4000	1	1/29/2008
trans-1,2-dichloroethene	BQL	0.4000	1	1/29/2008
1,2-Dichloropropane	BQL	0.4000	1	1/29/2008
cis-1,3-Dichloropropene	BQL	0.4000	1	1/29/2008
trans-1,3-Dichloropropene	BQL	0.4000	1	1/29/2008
Diisopropyl ether	BQL	0.4000	1	1/29/2008
Ethylbenzene	BQL	0.4000	1	1/29/2008
Methyl-tert-butyl ether	BQL	0.4000	1	1/29/2008
Styrene	BQL	0.4000	1	1/29/2008
1,1,2,2-Tetrachloroethane	BQL	0.4000	1	1/29/2008
Tetrachloroethene	BQL	0.4000	1	1/29/2008
Toluene	BQL	0.4000	1	1/29/2008
Trichloroethene	BQL	0.4000	1	1/29/2008
1,1,1-Trichloroethane	BQL	0.4000	1	1/29/2008
1,1,2-Trichloroethane	BQL	0.4000	1	1/29/2008
m-,p-Xylene	BQL	0.8000	1	1/29/2008
o-Xylene	BQL	0.4000	1	1/29/2008

**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  
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 • Ohio  
 • New Jersey  
 • West Virginia  
 • Hawaii  
 • Maryland  
 • North Carolina  
 www.us.sgs.com

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SGS ENVIRONMENTAL SERVICES, INC.

1 CLIENT: MACTEC Engineering and Consulting, Inc.  
 CONTACT: Susan Kelly PHONE NO.: 828 252-8130  
 PROJECT: LTS - Mills Gap SITE/PWSID#: \_\_\_\_\_  
 REPORTS TO: 1308 Patton Avenue E-MAIL: skelly@mactec.com  
Asheville, NC 28806 FAX NO.: 828 251-9690  
 INVOICE TO: QUOTE # \_\_\_\_\_ PROJECT: 6570-03-9450  
 P.O. NUMBER 63985

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LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No	SAMPLE TYPE	CONTAINERS	Preservatives Used	Analysis Required	REMARKS
	MG-27 A	1/22/08	1331	Air	1	G	1	C	X	
	MG-27 B	1/22/08	1331	Air	1	G	1	C	X	
	MG-27 A	1/22/08	1345	Air	1	G	1	C	X	
	MG-27 B	1/22/08	1345	Air	1	G	1	C	X	

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SGS Reference: G/32-1859 PAGE 1 OF 1

Shipping Carrier: FEDEX Samples Received Cold? (Circle) YES NO  
 Shipping Ticket No: 8614-3544-3404 Temperature (C): 20.0  
 Special Deliverable Requirements: Chain of Custody Seal: (Circle) INTACT  
 Special Instructions: \* Assume 10 Liters of air  
A = initial tube. B = break-through tube  
 Requested Turnaround Time:  RUSH  STD

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Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time
<u>Rochelle Kelly</u>	1/23/08	0800	<u>Susan Kelly</u>	1/23/08	1015
Relinquished By: (2)	Date	Time	Received By:	Date	Time
Relinquished By: (3)	Date	Time	Received By:	Date	Time
Relinquished By: (4)	Date	Time	Received By:	Date	Time

White - Retained by Lab  
 Yellow - Returned with Report  
 Pink - Retained by Sampler

1200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301  
 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557  
 1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0781