

**QUARTERLY PROGRESS REPORT
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE**

TO: Darryl Luce, USEPA
Andrew Hoffman, NHDES
Warren Diesl, AECOM Environment

FROM: Work Settling Defendants (WSD)
prepared by Mike Webster and Christene Binger, GeoInsight, Inc.

DATE: January 10, 2014

RE: Quarterly Progress Report

REPORTING PERIOD:

- January to March – Due April 10th
 April to June – Due July 10th
 July to September – Due October 10th
 October to December – Due January 10th

**Christene
A. Binger**

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I. PROGRESS REPORT OVERVIEW

For these Quarterly Progress Reports, representatives of the United States Environmental Protection Agency (USEPA) and New Hampshire Department of Environmental Services (NHDES) will be collectively referred to as the “Agency(ies).” Operation and Maintenance activities are being performed at the Dover Municipal Landfill Superfund Site by GeoInsight, Inc. (GeoInsight) and XDD, Inc. (XDD) at the request of the Executive Committee of the Work Settling Defendants (the “Group”). Dean Peschel, Peschel Consulting LLC, is the project coordinator on behalf of the Group.

As requested by Darryl Luce, USEPA Remedial Project Manager, the Quarterly Progress Report was developed to provide an overall summary of completed and ongoing activities. The First Quarterly Report that was submitted on January 10, 2009 included an overview of objectives and an overall summary of activities at the Dover Municipal Landfill. Going forward, Quarterly Progress Reports only include updates for ongoing RA activities. As requested by USEPA, the progress report is distributed via electronic PDF copies only.

II. OVERVIEW OF LANDFILL ACTIVITIES

This progress report focuses upon activities completed from October to December 2013. During this reporting period, activities were conducted associated with:

- Source Control Remedial Action (SCRA; summary attached).

A master schedule of anticipated activities for 2013 was developed to provide the Agencies and the Group with a consolidated, site-wide summary of activities and likely implementation schedule. The master schedule will be updated each quarter and is included as an attachment.

The Revised Environmental Monitoring Plan annual monitoring event was performed between October 28 and 30, 2013.

III. COMMUNITY RELATIONS PLAN

Activities related to the community relations plan were not performed during this monitoring period.

IV. SUMMARY OF REMEDIAL ACTIVITIES

This section of the Quarterly Progress Report provides a summary of the estimated mass of volatile organic compounds (VOCs) removed (to date) associated with ongoing remedial activities.

Activity	Estimated Pounds of VOCs Removed						
	2008	2009	2010	2011	2012	2013	Total
Southern Plume (SP) MOM	4.5	4.0	4.3	3.1	---	---	15.9
Northwest Landfill Hotspot	---	17,603	22,525	3,214	---	---	43,342
SCRA (December 31, 2013)	---	---	---	---	12.1	17.9	30
TOTAL	4.5	17,607	22,529	3,217	12.1	17.9	43,388

NOTES:

1. --- = system not operational.
2. VOC mass includes a sum of the primary VOCs, tetrahydrofuran (THF), benzene, and vinyl chloride for the groundwater extraction systems (SP and SCRA), and a sum of total VOCs measured in the effluent vapor for the Northwest Landfill system.

V. ATTACHMENTS

- Master Schedule of Anticipated Activities - Year 2013 and 2014; and
- Summary and Status of Activities (one attachment).

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2013
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2013									
	Q1			Q2			Q3			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
SOURCE CONTROL										
Source Control Remedial Action										
Inspection of Permeable Cover										
System Operation										
SCRA Performance Monitoring										
EW Sampling										
Site Wide Gauging Event										
POTW Effluent Sampling and Testing										
Hydraulic Monitoring - Transducer Downloads										
Annual REMP Event										
NW Landfill Rebound Monitoring Event										

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2014
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2014											
	Q1			Q2			Q3					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
SOURCE CONTROL												
Source Control Remedial Action												
Inspection of Permeable Cover												
System Operation												
SCRA Performance Monitoring												
EW Sampling												
Site Wide Gauging Event												
POTW Effluent Sampling and Testing												
Hydraulic Monitoring - Transducer Downloads												
Annual REMP Event												
NW Landfill Rebound Monitoring Event												

SUMMARY AND STATUS OF 2013 ACTIVITIES – Q4 – JANUARY 10, 2014
SOURCE CONTROL REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

During this reporting period, the following was performed:

- weekly system operation and monitoring site visits;
- weekly remote monitoring and data management activities;
- maintenance and cleaning of piping manifolds;
- performing the annual Revised Environmental Monitoring Plan (REMP) event between October 28 and 30, 2013;
- performing transducer download events on October 31 and December 27, 2013;
- performing the annual permeable cover inspection on November 11, 2013;
- the POTW operator collected an effluent water sample on November 14, 2013; and
- a maintenance jetting event was performed between December 9 and 20, 2013.

2. Deliverables and Correspondence

Deliverables and correspondence were not transmitted to the Agencies during this reporting period.

3. Schedule for Next Quarter

During the next quarter (January to March) the following activities are anticipated to be performed:

- continued system operation.

4. Status of Activities

Remedy Design: Completed.
Remedy Construction: 100 Percent Complete (achieved on July 5, 2012 at the Final Inspection)
Remedy Implementation: On-going, see Chart Below.
Reporting Schedule : SCRA summary in four Quarterly Progress Reports; and Annual Remedy Performance Report (due with April 10th progress report).

YEAR	2012	2013					TOTAL
Totals		Q1	Q2	Q3	Q4	Total	(to date)
Gallons Extracted (millions)	19.3	4.3	6.1	5.9	5.3	21.6	40.9
VOC - Mass Removal Estimate (pounds)	12.1	1.8	7.7	4.7	3.7	17.9	30.0
Arsenic - Mass Removal Estimate (pounds)	2.9	0.37	1.05	0.84	0.89	3.15	6.1

Mass removal based upon concentration of THF, benzene, VC, and arsenic measured in samples of extracted groundwater obtained from the sedimentation tank.

5. Modifications