

March 30, 1994

Ms. Laura Kay Dechant
Hydrogeologist
Department of Environment, Health,
and Natural Resources
Division of Environmental Management
Ground Water Section
50 Woodfin Place
Asheville NC 28801

SUBJECT: Girmes Site, Formerly SKF
Ground Water Incident Number 11032
Buncombe County, North Carolina
Revised Addendum 3 to Workplan for Field Activities

Dear Ms. Dechant:

Our report entitled Preliminary Comprehensive Site Assessment, Girmes Site, Formerly SKF USA Inc., submitted in January 1994, identified two areas at the Girmes site that required further investigation before the Comprehensive Site Assessment (CSA) could be completed. These areas include:

1. Determination of vinyl chloride concentrations, if present, in well MW-13 located on the US DOT property.
2. Assess the extent of trichloroethene in ground water on the southwest side of the Girmes facility.

This letter is presented as a revised Addendum 3 to the Workplan for Field Activities and presents results of the attempted ground water field screening and necessary additional tasks designed to address the need to assess ground water at the southwest side of the Girmes facility.

Vinyl Chloride Confirmation

RMT resampled monitoring well MW-13 to confirm if vinyl chloride is present in ground water. The well location is shown on Plate 1. The ground water sample was collected on March 24, 1994 by following the methods described in Workplan Addendum 1, Appendix B. The sample is currently being analyzed for trichloroethene, 1,2-dichloroethene, and vinyl chloride using US EPA SW846 Method 8010.

Analytical results will be submitted to NC DEHNR upon receipt from the laboratory.

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Ground Water Assessment, Southwest Side of Girmes Facility

In November 1993, trichloroethene was detected in monitoring well MW-14. This is the only monitoring well located on the southwest side of the Girmes facility. Ground water flow on this side of the facility is expected to be to the southwest towards Gashes Creek. Therefore, trichloroethene is expected to migrate southwest with the ground water flow.

To assess the extent of trichloroethene in ground water on the southwest side of the facility, RMT attempted to conduct ground water field screening during the week of March 14, 1994. Sampling was attempted at four locations (PC-8 through PC-11, Plate 1) on Girmes property near Gashes Creek using the Piezocone Direct Push Technology (DPT) sampling system. More detailed information concerning the system is contained in Appendix B of the original workplan dated July 29, 1993. This is the same system used to screen ground water on the north side of the facility in August 1993. At each location, bedrock was encountered before the water table was intercepted. Depths to bedrock ranged from 5.5 feet at PC-8 to 9.8 feet at PC-11. A fifth location was attempted near the entrance to the site (near proposed location for MW-19, shown on Plate 1), but shallow rock prevented the sampling rig from anchoring and the location was abandoned.

Since *in-situ* ground water samples could not be collected, three surface water samples (SW-1, SW-2 and SW-3) were collected from Gashes Creek on March 16, 1994 at the locations shown on Plate 1. A portion of each sample was analyzed on-site for trichloroethene and 1,2-dichloroethene using a Photovac Model 10S70 portable gas chromatograph (GC) equipped with a 10.6 e.v. photoionization detector. An aliquot of each sample (usually two milliliters) was injected into a closed 40 mL septum vial. After allowing approximately ten minutes for volatile organic compounds in the water to equilibrate with the headspace in the vial, an aliquot from the vial headspace was withdrawn and analyzed by injecting it into the field GC. None of the samples exhibited any response on the GC which could be quantified by the instrument. The three surface water locations (SW-1, SW-2, SW-3) were resampled on March 23, 1994 and the samples were sent to the RMT laboratory for verification. Each sample is currently being analyzed for trichloroethene, 1,2-dichloroethene and vinyl chloride.

RMT proposes to complete the ground water assessment on the southwest side of the facility by installing a minimum of two bedrock monitoring wells (MW-18 and MW-19) at the locations shown on Plate 1. Immediately upon completion and development, a representative ground water sample will be collected from each well and analyzed on-site for trichloroethene and 1,2-dichloroethene using the portable GC.

Ms. Laura Kay Dechant
March 30, 1994
Page 3

- If the sample from MW-18 shows the presence of any of the constituents and the sample from MW-19 does not, than an additional monitoring well will be installed south of MW-18 in order to define the southern extent of the ground water plume.
- If the sample from MW-19 shows the presence of any of the constituents and the sample from MW-18 does not, than an additional monitoring well will be installed at an accessible location along the entrance road approximately halfway between MW-19 and MW-11.
- If the samples from MW-18 and MW-19 show the presence of any of the constituents, than additional monitoring wells will be installed at the appropriate locations in order to define the edges of the ground water plume on the south west side of the Girmes facility.
- An additional surface water sample (SW-4) will be collected to document stream quality downgradient of MW-19.

When the field work is completed, a registered land surveyor will determine the vertical and horizontal locations on all sampling points. These data will be converted to the North Carolina Plane Coordinate System.

Reporting

Upon completion of the ground water assessment on the southwest side of the facility, SKF will submit a letter to NC DEHNR presenting the results of the investigation. The letter will also present results of the resampling of well MW-13 on NC DOT property and will propose additional tasks, if needed, to finalize plume definition of that portion of the facility.

Schedule

RMT proposes to complete the ground water assessment at the Girmes facility under the following schedule:



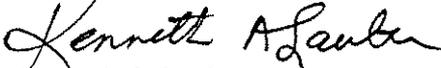
Ms. Laura Kay Dechant
March 30, 1994
Page 4

Week:	Week beginning:	Task:
1	April 11	Install wells, sample creek
2	April 18	Sample new monitoring wells
3	April 25	Receive analytical results
4-5	May 2	Data analysis
6-7	May 16	Report to client
8	May 30	Finalize CSA
9	June 6	Submit CSA to NC DEHNR

Please review this Workplan Addendum and comment. We will complete the scheduling of field activities upon approval by NC DEHNR and will advise you of any delays or changes to the proposed schedule. If you have questions, please let me know.

Sincerely,

RMT, Inc.



Kenneth A. Lauber
Staff Hydrogeologist



Dan O. Madison, P.G.
Consulting Hydrogeologist

cc: C. William McGlocklin/SKF
Allen G. Belenson/SKF
William Clark/Roberts, Stevens & Cogburn, PA
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