AC Rochester

P.O. Box 1790
Rochester, New York 14692-1790 USA

June 11, 1991



Mr. Ben Hall
Environmental Response Division
Region III Headquarters
Michigan Department of Natural Resources
P.O. Box 30028
Lansing, Michigan 48909

Re: Linden Road Landfill Progress Report

Dear Mr. Hall:

Enclosed is a progress report prepared by Weston Describing work performed on the Linden Road Landfill Project between April 16, 1991 and June 3, 1991. Please call me at (716) 647-4766 if you have any questions.

Sincerely,

Richard C. Eisenman

Richard C. Eisenman
Senior Environmental Engineer
Divisional Environmental Activities

ROY F. WESTON, INC.
THREE HAWTHORN PARKWAY, SUITE 400
VERNON HILLS, ILLINOIS 60061
® 708-918-4000

MANAGERS DESIGNERS/CONSULTANTS

COPY

7 June 1991

Mr. Richard C. Eisenman
Senior Environmental Engineer
General Motors, AC Rochester Division
Divisional Environmental Activities Group
1000 Lexington Avenue
Rochester, New York 14692

Work Order No.: 1138-58-02

Subject: Progress Report
Linden Road Landfill Project
04/16/91 through 06/03/91

Dear Mr. Eisenman:

The purpose of this letter is to summarize activities related to the Linden Road Landfill project between 16 April 1991 and 03 June 1991. The following sections of the letter reviews: the progress made this reporting period; significant findings; problem areas; laboratory work; subcontracted activities; deliverables submitted; and, planned activities/events.

Progress Made this Reporting Period

The following activities were performed during the current reporting period:

- Mobilized to the site for site investigation activities on 22 April 1991.
- Performed soil gas screening at a total of 198 locations covering the entire site.
- Conducted test pit excavations at 19 locations. The depths of test pits ranged from 6.5 to 14 feet from the ground surface. A total of 28 test pit soil/waste samples were collected for analysis.
- Conducted auger probe investigations at 28 locations. Auger probes were drilled using solid-stem augers to a depth of up to 15 feet from the ground surface.

- Drilled 4 soil borings to depths ranging from 5 to 42 feet. A total of 7 samples were collected for organic and inorganic analysis.

- Installed 4 shallow monitoring wells and 3 deep monitoring wells at the site. The shallow monitoring wells were approximately 12 feet deep, and were screened immediately above a thick clay "confining" layer. The deep monitoring wells were screened in a saturated zone beneath the "confining" layer at a depth of approximately 40 feet from the surface. A casing was installed in the confining layer prior to drilling through to prevent potential cross contamination between aquifers. A total of 12 soil samples were collected for analysis during drilling at the monitoring well locations.

- Installed 2 shallow piezometers to supplement water level information within the site.

- Performed elevation surveys of all the monitoring wells and piezometers.

- Developed all monitoring wells and piezometers and obtained multiple rounds of water level measurements.

- Completed first round of groundwater sampling. A total of 7 groundwater samples were collected for chemical analysis.

- Collected surface water samples at 5 locations within the site.

- Performed in situ aquifer tests on two shallow and two deep monitoring wells.

- Installed 4 staff gauges in ponds located within the site.

- Demobilized investigation team from the site on 3 June 1991.

Significant Findings

- The results of the soil gas surveys was useful in the selection of locations for test pits, auger probes, and soil borings.
- Field observations during test pit excavations, auger probe drilling, and, drilling of soil borings indicate that waste material may be confined to the upper 15 feet at the site.
- A thick (10 to 20 feet) clay layer was encountered consistently throughout the site beneath the waste material. The water table was encountered immediately above this potentially confining clay layer.
- The majority of the waste material encountered in the subsurface appears to be composed of oily, fine grained material that resembled metal grinding waste. Other waste material included drum carcasses, few rusted drums, wood blocks, and, paint waste-like material. Screening of the waste material with an HNu Photoionization Detector revealed presence of organic vapors at several subsurface sampling locations.

Problems Areas - Encountered/Resolved

No major problems were encountered during the current reporting period.

Laboratory Work

All chemical analysis for samples collected during the site investigation are currently being performed by the WESTON-Gulf Coast Laboratories, Inc., University Park, Illinois. Triaxial permeability testing of Shelby tube samples are being performed by Patrick Engineering Inc., geotechnical laboratories located in Glen Ellyn, Illinois.

Subcontracted Activities

John Mathes & Associates, Columbia, Illinois, were subcontracted by WESTON to conduct drilling and monitoring well construction activities. GM contracted Hubbell, Roth & Clark, Inc., to perform surveying activities associated with the field investigations.

Deliverable(s) Submitted

No deliverables were submitted during this reporting period.

Planned Activities and Events

The following activities will be conducted during June and July, 1991.

- Conduct limited field screening of potential PCB containing surface waste material using a PCB Field Test Kit. This action is expected to be completed before the end of June 1991. This would be a follow-up action to the Interim Remedial Measures Evaluation (IRME) sampling conducted in November/December 1990.
- Reduction and evaluation of all field information
- Compile all field information and prepare appropriate tables and figures
- Obtain analytical data from laboratory, validate data and tabulate data. The first batch of analytical results from the laboratory is expected to be delivered by the third week of June 1991.
- Meet with GM and discuss findings of the site investigations.
- Begin preparation of investigation reports.

WESTON will brief GM on a regular basis (at least once a week) on project progress. The next progress report will be submitted to GM

by 1 August 1991. If you have any questions or need additional information, please call either of the undersigned at (708) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

S. Babusukumar, P.G.
Project Manager

Thomas E. Carlisle
Project Director

SB:TEC:hms

cc: R. Neahusan , GM-AC Rochester
M. Mathews, GM-AC Rochester
E. Peterson, GM-EAS

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