

**DISTRICT QUALITY REVIEW
SIGNATURE FORM**

DATE: June 28, 2007

SITE NAME: Linden Road Landfill

SITE ADDRESS: Linden Road, Flint Township

COUNTY: Genesee

PURPOSE OF PRESENTATION: Request from PRP to discontinue groundwater monitoring at the site.

BRIEF SUMMARY OF SITE INFORMATION: The Linden Road Landfill was originally a 40 acre parcel where General Motors disposed of industrial wastes. In 1999 the DEQ granted GM a site specific (limited recreational) closure on Parcel 1 (see Certificate of Survey). The requirements of the Closure included groundwater sampling for five years following completion of site construction (Table 4-1). December 1999 baseline groundwater sampling showed Vinyl Chloride (VC) at 3 ppb in MW-11S (Figure 1). Resampling of MW-11S well in February 2000 showed one VOC (cis-1,2 DCE) below criteria and in June of 2000 groundwater was non-detect for all parameters. In seven subsequent sampling events, no further exceedance of criteria was been documented at this monitoring well location. This well was last sampled in December of 2004 during the fifth annual sampling event.

In the Second Annual Groundwater Sampling report (December 2001) VC exceeded criteria in groundwater at MW-3S. Groundwater sampling at this location was increased from annually to quarterly. In June of 2003 an investigation using temporary wells was performed to determine if VC was migrating from the site. The results of this investigation revealed VC was migrating from the Facility at levels just above generic residential drinking criteria. Prior investigations showed groundwater flow to be to the ENE for the majority of the landfill with a small area in the SE of the landfill where groundwater flow was more ESE. A subsequent investigation in November of 2003 appeared to have delineated the extent of the VC migration (Figure 2). In 2004 two additional monitoring wells were installed down gradient of MW-3S. Of these, VC at MW-14S ((Figure 1) slightly exceeded criteria (4 ppb). Since installation, MW-14S has been sampled five times. The first three sampling events showed VC above criteria, the fourth event showed VC at 2 ppb (which is at, but does not exceed, criteria), and the most recent event (April 2007) was non-detect for VC (Table 1).

The PRP has requested NFA for all groundwater sampling at the Facility.

CONCLUSION OF REVIEW TEAM: Sufficient groundwater data has not been gathered to determine if off site migration has ceased. The QRT requests three additional quarterly samples (summer, fall, and winter) from monitoring wells MW-14s and MW-3s. If MW-14s does not exceed criteria and MW-3s does not show a marked increase in concentration over these three events a NFA for further groundwater sampling will be granted.

DATE, SOURCE AND IDENTIFICATION OF DOCUMENTATION/INFORMATION PROVIDING RESIDENTIAL, COMMERCIAL OR INDUSTRIAL CLOSURE:

1 May 2007; Weston Solutions; Groundwater Sampling (April 2007) of Select Monitoring Wells for Evaluation of Vinyl Chloride

21 January 2004; Weston Solutions: Fourth Annual Groundwater Sampling and Methane Monitoring Including Additional Investigation

April 1999; Roy F. Weston, Inc.; Operation and Maintenance Schedule (Table 4-1) and the Certificate of Survey are from the Legal Agreement associated with the RAP

APPROVAL SIGNATURES

PROJECT MANAGER: Jan E. [Signature] 6/28/07

SENIOR DISTRICT GEOLOGIST: Cheryl Stanfield 6/28/07

DISTRICT ENFORCEMENT COORDINATOR: [Signature] 6/29/07

SENIOR DISTRICT EQM: Kathleen Shiner 7/2/07

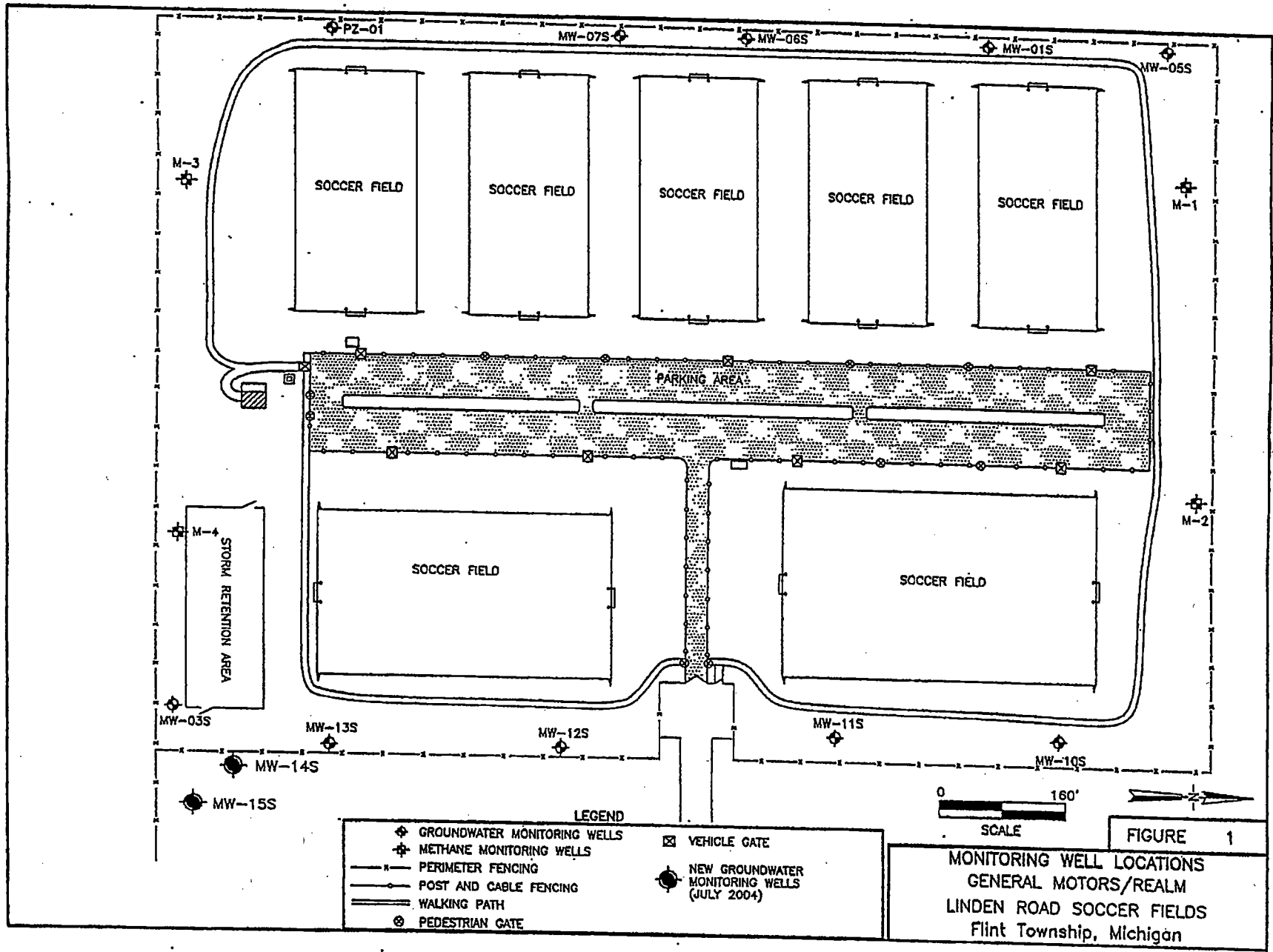
DISTRICT SUPERVISOR: Ben Hall 7/2/07

Table 4-1

**Operation and Maintenance Schedule
Linden Road Site
Flint Township, Michigan**

	Operation and Maintenance Activity				
Year	Soil Cover Inspection/ Maintenance (Frequency)	Access Control Inspection/ Maintenance (Frequency)	Drainage System Maintenance (Frequency)	Groundwater Monitoring (Frequency)	Reporting (Frequency)
1	Quarterly	Quarterly	Quarterly	Annual ¹	Annual
2	Semi-annual	Semi-annual	Semi-annual	Annual	Annual
3	Semi-annual	Semi-annual	Semi-annual	Annual	Annual
4	Semi-annual	Semi-annual	Semi-annual	Annual	Annual
5	Annual	Annual	Annual	Annual	Annual
6, 8, 10... ¹	Bi-annual	Bi-annual	Bi-annual	N/A	Bi-annual

¹ Baseline groundwater monitoring will be conducted immediately following cap construction.



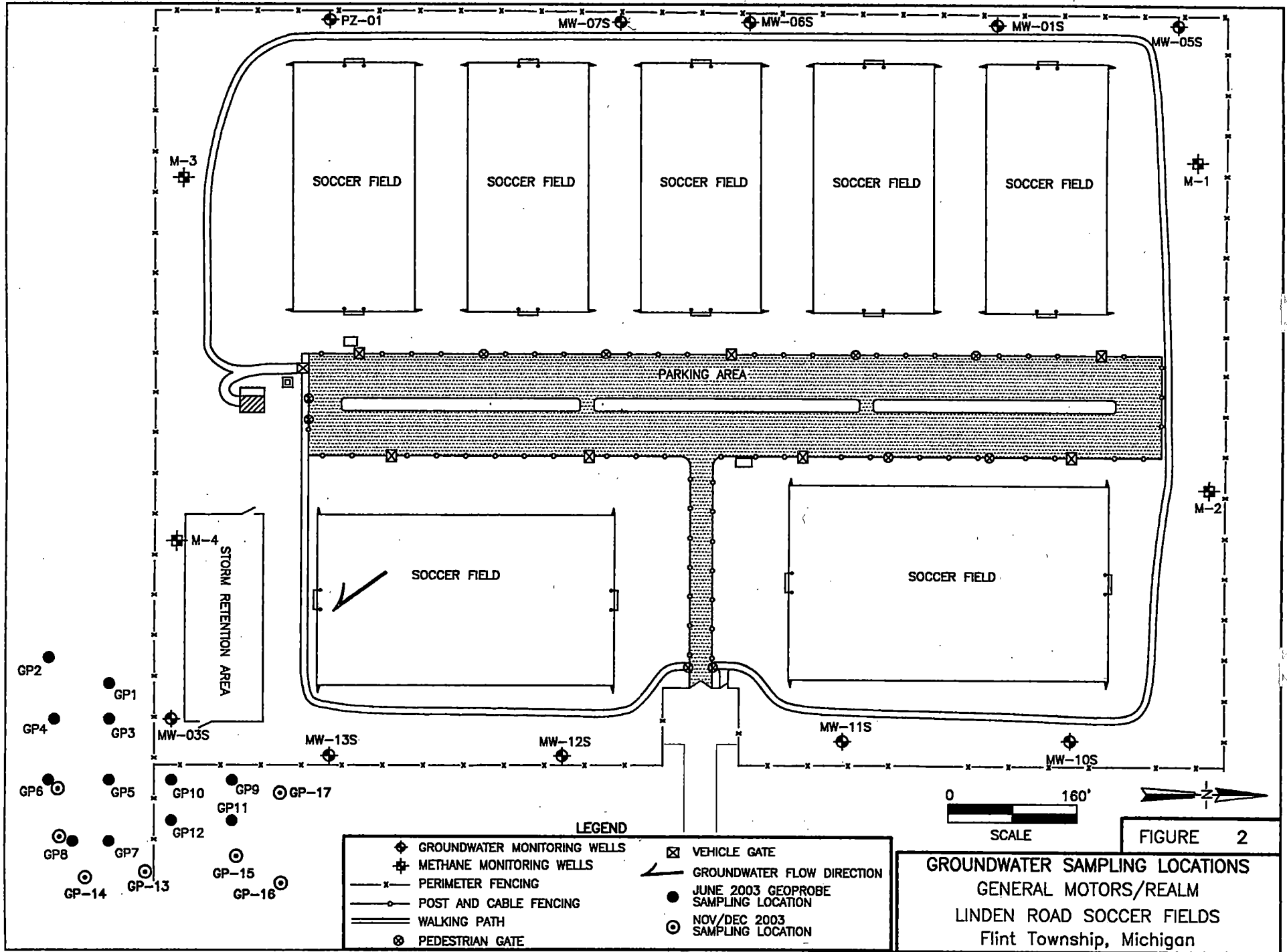


FIGURE 2

GROUNDWATER SAMPLING LOCATIONS
GENERAL MOTORS/REALM
LINDEN ROAD SOCCER FIELDS
Flint Township, Michigan

Table 1

Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria
Groundwater Sample Analytical Results 1999 to April 2007
Linden Road Site

Sample Location	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S DP	MW-03S	MW-03S DP	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S DUP	MDEQ Generic Drinking Water Criteria	
Sample Date	Oct-99	Oct-00	Oct-01	Feb-02	Feb-02	Jun-02	Jun-02	Oct-02	Nov-03	Dec-04	May-05	Nov-05	Jul-06	Apr-07	Apr-07	Residential	Industrial/ Commercial
VOCs (mg/L)																	
Trichloroethene	0.001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	0.006	0.017	0.021	0.011	0.012	0.014	0.015	0.012	0.005	0.005	0.008	0.013	0.008	0.004	0.004	0.005	0.005
cis-1,2-Dichloroethene	0.015	0.035	0.035	0.016	0.016	0.021	0.024	0.021	0.005	0.005	0.008	0.013	0.008	0.004	0.004	0.88	2.5
1,2-Dichloropropane	---	0.001	0.002	---	---	0.001	0.001	---	---	---	0.008	0.013	0.009	0.003	0.003	0.07	0.07
trans-1,2-Dichloroethene	0.001	0.002	0.002	---	---	0.001	0.001	0.001	---	---	---	---	---	0.003	0.003	0.07	0.07
Toluene	---	---	---	---	---	0.001	0.001	0.001	---	---	---	---	---	---	---	0.005	0.005
Vinyl chloride	---	---	0.023	0.013	0.014	0.023	0.024	0.019	0.005	0.005	0.008	0.019	0.007	0.003	0.004	0.1	0.1
																0.79	0.79
																0.002	0.002

Notes:

--- Compound not detected above laboratory detection limit; or no criteria available.

Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria.

DP or DUP - Field quality control duplicate sample.

Table 1 (Continued)

Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria
Groundwater Sample Analytical Results 1999 to April 2007
Linden Road Site

Sample Location	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S DUP	MW-14S	MW-15S	MW-15S	MW-15S DP	MW-15S	MW-15S DP	MW-15S	MW-15S	MDEQ Generic Drinking Water Criteria	
	Dec-04	May-05	Nov-05	Jul-06	Jul-06	Apr-07	Dec-04	May-05	May-05	Nov-05	Nov-05	Jul-06	Apr-07	Residential	Industrial/Commercial
VOCs (mg/L)															
Trichloroethene	0.001	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
cis-1,2-Dichloroethene	0.026	0.025	0.026	0.022	0.023	0.008	---	---	---	---	---	---	---	0.88	2.5
1,2-Dichloropropane	---	---	---	---	---	---	---	---	---	---	---	---	---	0.07	0.07
trans-1,2-Dichloroethene	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
Toluene	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.1
Vinyl chloride	0.003	0.004	0.004	0.002	0.002	---	---	---	---	---	---	---	0.001	0.79	0.79
														0.002	0.002

Notes:
 --- Compound not detected above laboratory detection limit, or no criteria available.
 Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria.
 DP or DUP - Field quality control duplicate sample.