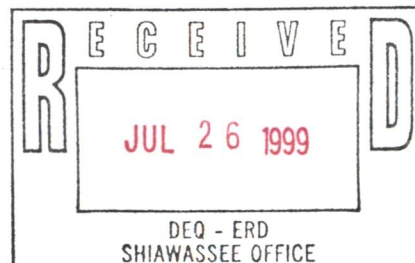




Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

23 July 1999

Mr. James Innes
Michigan Department of Environmental Quality
Shiawassee District Headquarters
10650 Bennett Drive
Morrice, MI 48857-9792



Re: Documentation of Well Decommissioning Activities
Linden Road Landfill, Flint Township, Genesee County, MI

Dear Mr. Innes:

Roy F. Weston, Inc. (WESTON), on behalf of General Motors Corporation (GM), has completed the decommissioning of selected monitoring wells at the Linden Road Landfill site, Flint Township, Michigan. A plan presenting the details of the decommissioning activity was submitted to the Michigan Department of Environmental Quality (MDEQ) by WESTON by letter dated 27 October 1998. This Plan was approved by MDEQ in a letter to GM dated 16 November 1998. The present submittal serves as documentation for the above-referenced well decommissioning activities.

Carlo Environmental Technologies, Inc. of Clinton Township, Michigan, performed monitoring well decommissioning activities under the direct supervision of a hydrogeologist from WESTON. The fieldwork was completed on May 6 and May 7, 1999. A total of seven monitoring wells were decommissioned. These included four shallow monitoring wells (MW-04S, MW-08S, MW-09S, and MW-02S) associated with Parcels 2 and 3 (Frontage Property) and three deep monitoring wells (MW-01D, MW-02D, and MW-03D). Figure 1 shows the locations of these former wells.

Monitoring Well Abandonment Records were completed for each well decommissioned and are included as Attachment A to this submittal.

If you have any questions or require additional information, please call me at (847) 918-4018.

Very truly yours,
ROY F. WESTON, INC.

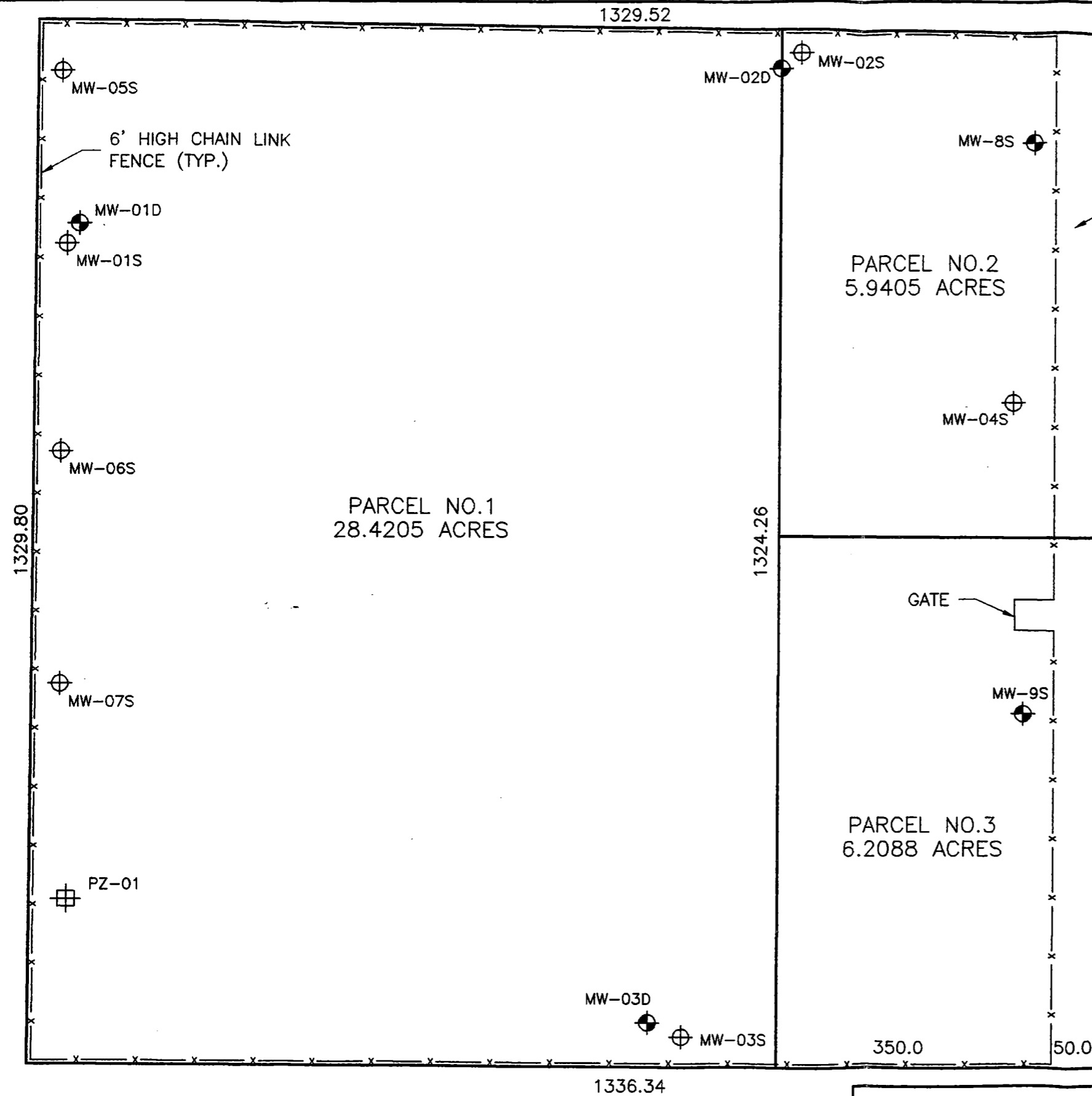
S. Babusukumar, P.G.
Project Manager

cc: Robert Metcalf, GM

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LEGEND

- MW-04S EXISTING SHALLOW MONITORING WELL LOCATION
- MW-02D DEEP MONITORING WELL LOCATION
- PZ-02 PIEZOMETER LOCATION

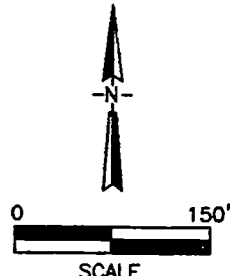


FIGURE 1

WESTON
MANAGERS DESIGNERS/CONSULTANTS

Three Hawthorn Parkway
Vernon Hills, Illinois
60061

MONITORING WELL LOCATION MAP
LINDEN ROAD SITE
Flint Township, Michigan

ATTACHMENT A
MONITOR WELL ABANDONMENT RECORDS

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-4S

Date Installed: Date Abandoned: 5/7/99 Drilling Firm: Carlo Environmental

Well Depth: 14 ft. Screen Depth from TOC: 4 ft. Water Table Depth from TOC: 6.5 ft.

Casing Type: Galvanized PVC Stainless Steel ID: 2" 4"

Screen Type: PVC Stainless Steel Length: 10 ft.

2" Annulus Grouted: Yes No from ft. to ft. Grout Type:

4" Annulus Grouted: Yes No from ft. to ft. Grout Type:

Casing: Pulled Cut Depth BGL: Well Grouted? Yes No

Grout Type: Bentonite Cement Grouting Method: Through Casing Tremie Other (explain)

Crew: Carlo Environmental Technologies, Inc., Weston

Comments:

David Dryburgh/by ABelub 7/22/99
Signature of Consultant/Engineer Date



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-8S

Date Installed: 10/29/96 Date Abandoned: 5/7/99 Drilling Firm: Carlo Environmental

Well Depth: 15 ft. Screen Depth from TOC: 10 ft. Water Table Depth from TOC: 12 ft.

Casing Type: Galvanized [] PVC [] Stainless Steel [x] ID: 2" [x] 4" []

Screen Type: PVC [] Stainless Steel [x] Length: 5 ft.

2" Annulus Grouted: Yes [] No [] from ft. to ft. Grout Type:

4" Annulus Grouted: Yes [] No [] from ft. to ft. Grout Type:

Casing: Pulled [x] Cut [] Depth BGL: Well Grouted? Yes [x] No []

Grout Type: Bentonite [x] Cement [] Grouting Method: Through Casing [] Tremie [x] Other [] (explain)

Crew: Carlo Environmental Technologies, Inc., Weston

Comments:

David Dryburgh/ky [Signature] 7/22/99
Signature of Consultant/Engineer Date



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-9S

Date Installed: 10/29/96 Date Abandoned: 5/6/99 Drilling Firm: Carlo Environmental

Well Depth: 10 ft. Screen Depth from TOC: 5 ft. Water Table Depth from TOC: 7 ft.

Casing Type: Galvanized [] PVC [] Stainless Steel [x] ID: 2" [x] 4" []

Screen Type: PVC [] Stainless Steel [x] Length: 10 ft.

2" Annulus Grouted: Yes [] No [] from ft. to ft. Grout Type:

4" Annulus Grouted: Yes [] No [] from ft. to ft. Grout Type:

Casing: Pulled [x] Cut [] Depth BGL: Well Grouted? Yes [x] No []

Grout Type: Bentonite [x] Cement [] Grouting Method: Through Casing [] Tremie [x] Other [] (explain)

[Blank lines for notes]

Crew: Carlo Environmental Technologies, Inc., Weston

[Blank lines for notes]

Comments:

[Blank lines for comments]

David Dryburch / by [Signature] 7/22/99
Signature of Consultant/Engineer Date

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-2S

Date Installed: 5/15/91 Date Abandoned: 5/7/99 Drilling Firm: Carlo Environmental

Well Depth: 12 ft. Screen Depth from TOC: 2.5 ft. Water Table Depth from TOC: 4.5ft.

Casing Type: Galvanized [] PVC [] Stainless Steel [x] ID: 2" [x] 4" []

Screen Type: PVC [] Stainless Steel [x] Length: 10 ft.

2" Annulus Grouted: Yes [] No [] from [] ft. to [] ft. Grout Type: []

4" Annulus Grouted: Yes [] No [] from [] ft. to [] ft. Grout Type: []

Casing: Pulled [x] Cut [] Depth BGL: [] Well Grouted? Yes [] No []

Grout Type: Bentonite [x] Cement [] Grouting Method: Through Casing [] Tremie [x] Other [] (explain)

[]

Crew: Carlo Environmental Technologies, Inc., Weston

[]

Comments:

[]

David Dryburgh/by [Signature] 7/22/99
Signature of Consultant/Engineer Date



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-1D

Date Installed: 5/20/91 Date Abandoned: 5/6/99 Drilling Firm: Carlo Environmental

Well Depth: 48 ft. Screen Depth from TOC: 35.0 ft. Water Table Depth from TOC: 11.5 ft.

Casing Type: Galvanized [] PVC [] Stainless Steel [x] ID: 2" [x] 4" []

Screen Type: PVC [] Stainless Steel [x] Length: 5 ft.

2" Annulus Grouted: Yes [] No [] from [] ft. to [] ft. Grout Type: []

4" Annulus Grouted: Yes [] No [] from [] ft. to [] ft. Grout Type: []

Casing: Pulled [] Cut [x] Depth BGL: 2' Well Grouted? Yes [x] No []

Grout Type: Bentonite [x] Cement [] Grouting Method: Through Casing [] Tremie [x] Other [] (explain)

Crew: Carlo Environmental Technologies, Inc., Weston

Comments:

David Drybush / by A. Balch 7/22/99
Signature of Consultant/Engineer Date

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-2D

Date Installed: 5/19/91 Date Abandoned: 5/7/99 Drilling Firm: Carlo Environmental

Well Depth: 41 ft. Screen Depth from TOC: 35 ft. Water Table Depth from TOC: 17.5 ft.

Casing Type: Galvanized [] PVC [] Stainless Steel [x] ID: 2" [x] 4" []

Screen Type: PVC [] Stainless Steel [x] Length: 5 ft.

2" Annulus Grouted: Yes [] No [] from [] ft. to [] ft. Grout Type: []

4" Annulus Grouted: Yes [] No [] from [] ft. to [] ft. Grout Type: []

Casing: Pulled [] Cut [x] Depth BGL: 12' Well Grouted? Yes [x] No []

Grout Type: Bentonite [x] Cement [] Grouting Method: Through Casing [] Tremie [x] Other [] (explain)

[]

Crew: Carlo Environmental Technologies, Inc., Weston

[]

Comments:

[]

David Dryburgh by [Signature] 7/22/99
Signature of Consultant/Engineer Date

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY



MONITOR WELL ABANDONMENT RECORD

Site Name: Linden Road Landfill Site County: Genesee

Section: 17 Town: 7N Range: 6E MW#: MW-3D

Date Installed: 5/21/91 Date Abandoned: 5/6/99 Drilling Firm: Carlo Environmental

Well Depth: 36 ft. Screen Depth from TOC: 25 ft. Water Table Depth from TOC: 11 ft.

Casing Type: Galvanized [] PVC [] Stainless Steel [x] ID: 2" [x] 4" []

Screen Type: PVC [] Stainless Steel [x] Length: 5 ft.

2" Annulus Grouted: Yes [] No [] from ft. to ft. Grout Type:

4" Annulus Grouted: Yes [] No [] from ft. to ft. Grout Type:

Casing: Pulled [] Cut [x] Depth BGL: 2' Well Grouted? Yes [x] No []

Grout Type: Bentonite [x] Cement [] Grouting Method: Through Casing [] Tremie [x] Other [] (explain)

Blank lines for notes or additional information.

Crew: Carlo Environmental Technologies, Inc., Weston

Blank lines for notes or additional information.

Comments:

Blank lines for comments.

Signature: David Dugbush/by J. Barkun Date: 7/22/99