

MEMO

To:

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From:

Brad Saunders

Date:

December 18, 2020

Arcadis Project No.:

30042811.00005

Subject:

Fiero Monitoring Well Abandonment Summary
Pontiac North Campus

This memorandum summarizes monitoring well abandonment activities conducted at the Former Fiero Assembly and Powerhouse properties of the Revitalizing Auto Communities Environmental Response Trust (RACER) Pontiac North Campus Site (Site) located in Pontiac, Michigan (**Figure 1**). The well abandonment scope of work was performed in accordance with the United States Environmental Protection Agency's (USEPA's) August 11, 2020 limited approval of the *Fiero Property Well Abandonment Request* (Arcadis, July 2020).

Well abandonment activities were conducted on November 5, 2020 by Terra Probe Environmental, Inc. under Arcadis' oversight. A total of four monitoring wells were abandoned (MWF16-27, UNKNOWN-01, UNKNOWN-02, and MWF1R). Prior to abandonment, total well depths were measured. At each well location, the well casing was cut approximately 3 feet below ground surface (bgs). The remaining well casing and well screen were abandoned in place by backfilling with bentonite grout from the bottom of the well until the casing was full. The surface was restored with neat cement. Well abandonment records and photos are included as **Attachment 1**.

In addition to the four monitoring wells which were abandoned, two additional monitoring wells (MWF16-07 and MWF16-13) were approved for abandonment by USEPA in its August 11, 2020 email. Monitoring well MWF16-13 is presumed destroyed as it was not able to be located despite an intrusive search conducted

simultaneous with the abandonment activities (for additional details, refer to the Fiero Well Locating Summary Memorandum also dated December 18, 2020). Alternatively, MWF16-07 was not abandoned as it is being temporarily kept for use in evaluation of the off-site vapor intrusion pathway south-southwest of the Fiero properties, an evaluation which remains ongoing as of this time.

Figures

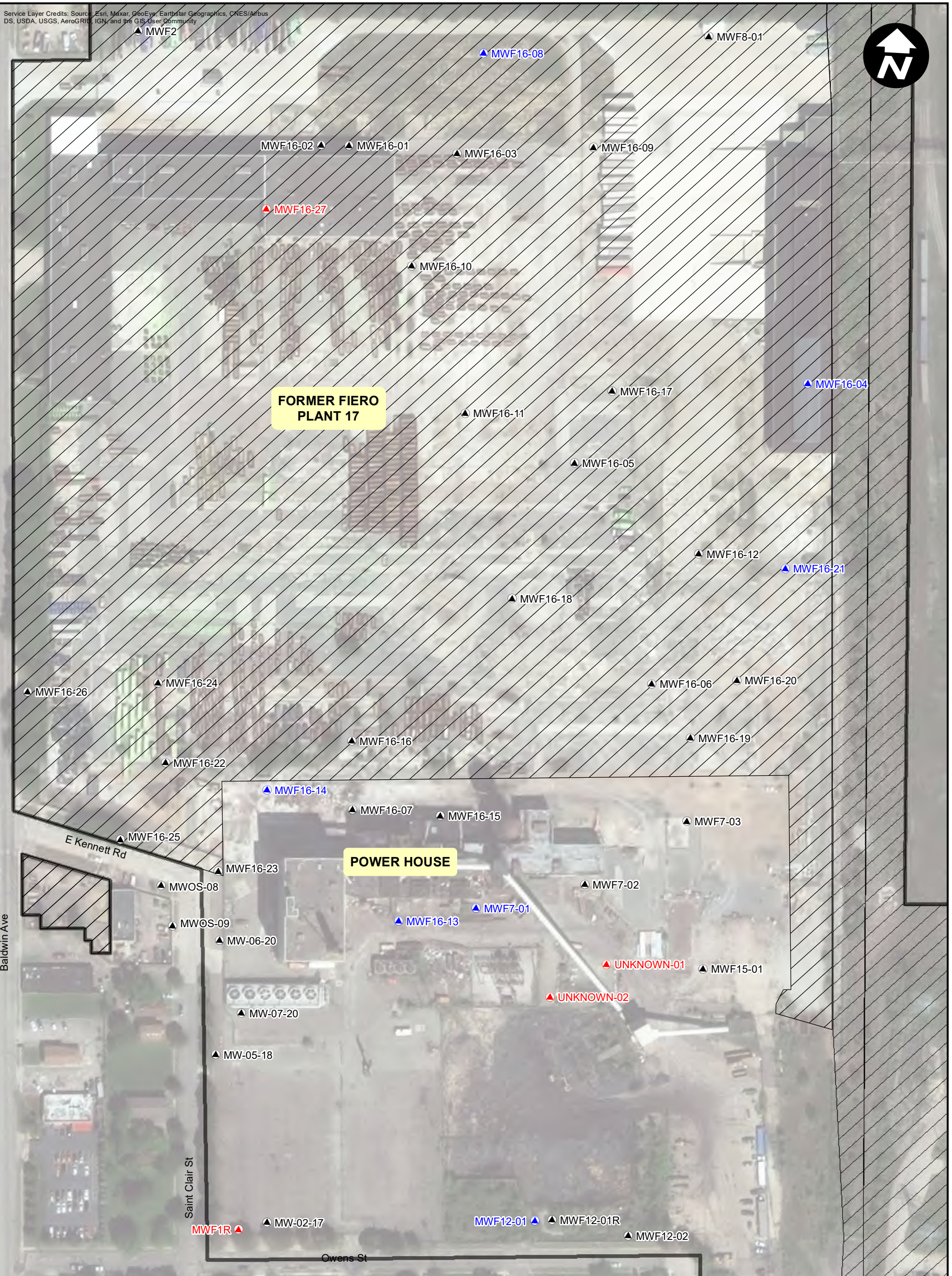
Figure 1 Well Abandonment Locations Former Fiero Property

Attachments

Attachment 1 Well Abandonment Records



CITY: NOVI, MI DIV: ENV DB: TRY PIC: PM: TM: TR: PROJECT NUMBER: 30042811.00005 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
 T: ENV\Novi\Brighton MI\Motors\Liquidation\Campus\PontiacNorth\Campus\Documents\Former Fiero Property\Memo_202011_WellInventory.mxd PLOTTED: 12/7/2020 3:51:30 PM BY: AKENS



LEGEND

- ▲ ABANDONED MONITORING WELL
- ▲ COULD NOT LOCATE - PRESUMED DESTROYED
- ▲ EXISTING MONITORING WELL
- PROPERTY SOLD BY RACER
- CURRENT OR FORMER RACER PROPERTY

0 150 300
SCALE IN FEET

RACER TRUST
 PONTIAC NORTH CAMPUS
 PONTIAC, MICHIGAN

**WELL ABANDONMENT LOCATIONS
 FORMER FIERO PROPERTY**

MONITOR WELL ABANDONMENT RECORD



Site Name : **Racer PNC**

Well ID: **MWF16-27**

Site Name: Racer PNC

County: Pontiac

Well ID: MWF16-27

Project Number: 30042811

Date Installed:

Date Abandoned: 11/5/2020

Subcontractor: Terra Probe Environmental

Well Depth: 25 ft

Screen Depth from TOC (ft): ft

Water Table Depth from TOC: NA ft

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

Screen Type: PVC Stainless steel Abandoned Screen Length: ft

2in Annulus Grouted: Yes No from 25 ft to 1 ft Grout Type: Bentonite

4in Annulus Grouted: Yes No from ft to ft Grout Type:

Casing: Pulled Cut Depth BGS: 3 Well Grouted? Yes No

Grout Type: Bentonite Cement Chips

Grouting Method: Through Casing Tremie Poured

Other Grouting Method Other:

Crew: Steve Oberle, Aaron, Scott

Comments:

Notes:

ft - feet

in - inches

TOC - Top of Casing

ID - Inside Diameter

BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : Racer PNC

Well ID: MWF16-27

Well before Abandonment



Well after Abandonment



ST

Signature Of Consultant

Arcadis

Company / Position

11/5/2020

Date

MONITOR WELL ABANDONMENT RECORD



Site Name : **Racer PNC**

Well ID: **MWF1R**

Site Name: Racer PNC

County: Pontiac

Well ID: MWF1R

Project Number: 30042811

Date Installed:

Date Abandoned: 11/5/2020

Subcontractor: Terra Probe Environmental

Well Depth: 24 ft

Screen Depth from TOC (ft): ft

Water Table Depth from TOC: NA ft

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

Screen Type: PVC Stainless steel Abandoned Screen Length: ft

2in Annulus Grouted: Yes No from 24 ft to 1 ft Grout Type: Bentonite

4in Annulus Grouted: Yes No from ft to ft Grout Type:

Casing: Pulled Cut Depth BGS: 3 Well Grouted? Yes No

Grout Type: Bentonite Cement Chips

Grouting Method: Through Casing Tremie Poured

Other Grouting Method Other:

Crew: Aaron, Scott

Comments:

Notes:

ft - feet

in - inches

TOC - Top of Casing

ID - Inside Diameter

BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : Racer PNC

Well ID: MWF1R

Well before Abandonment



Well after Abandonment



ST

Signature Of Consultant

Arcadis

Company / Position

11/5/2020

Date

MONITOR WELL ABANDONMENT RECORD



Site Name : **Racer PNC**

Well ID: **UNKNOWN-01**

Site Name: Racer PNC

County: Pontiac

Well ID: UNKNOWN-01

Project Number: 30042811

Date Installed:

Date Abandoned: 11/5/2020

Subcontractor: Terra Probe Environmental

Well Depth: 24.11 ft

Screen Depth from TOC (ft): ft

Water Table Depth from TOC: NA ft

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

Screen Type: PVC Stainless steel Abandoned Screen Length: ft

2in Annulus Grouted: Yes No from 24.11 ft to 2 ft Grout Type: Bentonite

4in Annulus Grouted: Yes No from ft to ft Grout Type:

Casing: Pulled Cut Depth BGS: 3 Well Grouted? Yes No

Grout Type: Bentonite Cement Chips

Grouting Method: Through Casing Tremie Poured

Other Grouting Method Other:

Crew: Aaron, Scott

Comments:

Notes:

ft - feet

in - inches

TOC - Top of Casing

ID - Inside Diameter

BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : Racer PNC

Well ID: UNKNOWN-01

Well before Abandonment



Well after Abandonment



Additional Photos



ST

Signature Of Consultant

Arcadis

Company / Position

11/5/2020

Date

MONITOR WELL ABANDONMENT RECORD



Site Name : **Racer PNC**

Well ID: **UNKNOWN-02**

Site Name: Racer PNC

County: Pontiac

Well ID: UNKNOWN-02

Project Number: 30042811

Date Installed:

Date Abandoned: 11/5/2020

Subcontractor: Terra Probe Environmental

Well Depth: 39.1 ft

Screen Depth from TOC (ft): ft

Water Table Depth from TOC: NA ft

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

Screen Type: PVC Stainless steel Abandoned Screen Length: ft

2in Annulus Grouted: Yes No from 39.1 ft to 1 ft Grout Type: Bentonite

4in Annulus Grouted: Yes No from ft to ft Grout Type:

Casing: Pulled Cut Depth BGS: 3 Well Grouted? Yes No

Grout Type: Bentonite Cement Chips

Grouting Method: Through Casing Tremie Poured

Other Grouting Method Other:

Crew: Aaron, Scott

Comments:

Notes:

ft - feet

in - inches

TOC - Top of Casing

ID - Inside Diameter

BGS - Below ground surface

MONITOR WELL ABANDONMENT RECORD

Site Name : Racer PNC

Well ID: UNKNOWN-02

Well before Abandonment



Well after Abandonment



ST

Signature Of Consultant

Arcadis

Company / Position

11/5/2020

Date