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19 August 2013

Ms. Liza Finley  
U.S. Army Corps of Engineers - Baltimore District  
Engineering Division-HTRW Branch  
10 South Howard Street  
10<sup>th</sup> Floor – CENAB-EN-HT  
Baltimore, Maryland 21201

**Subject: Memorandum on the Abandonment of Wells, Underground Piping, and Debris Removal  
Marsh Run Park FUDS Project No. C03PA040301  
New Cumberland, Fairview Township, York County, Pennsylvania  
Contract No. W912DR-09-D-0018  
Delivery Order No. 0003**

Dear Ms. Finley,

EA Engineering, Science, and Technology, Inc. (EA) prepared this Memorandum to present the summary of the abandonment of monitoring wells, soil-vapor extraction (SVE) wells, groundwater extraction wells, associated underground piping, and debris removal at the Marsh Run Park Formerly Used Defense Site (FUDS) located in New Cumberland, Fairview Township, York County, Pennsylvania.

Well abandonment was performed during the period of 3 June 2013 to 12 June 2013. During this effort, thirty groundwater wells (monitoring wells, extraction wells, and 2 additional onsite wells) and 58 SVE wells were abandoned. Also, underground lines for the former SVE system were abandoned at three onsite locations. Attachment A includes copies of the electronic forms that were completed using the Pennsylvania Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey (BTGS) WebDriller application, and Appendix A also includes the tables summarizing the abandonment of the SVE wells (which were not entered into the WebDriller application).

Enclosed for your records is a compact disk that contains this memo, the *Technical Memorandum for Performing Well Abandonment* (EA 2013), the items included in Attachment A, and photographs collected before and after the field effort.

The procedures outlined in the *Technical Memorandum for Performing Well Abandonment* (EA 2013) were followed during this effort, with the following exceptions:

- The grout was not mixed for each individual well, as implied. Rather, a full batch of grout was mixed, then used to fill as many wells as possible. This allowed for a consistent blend of grout to be applied to multiple wells.

- The SVE wells were grouted prior to the removal of the SVE boxes. Based on the observed field conditions, EA, in consultation with the USACE on-site representative, Ethan Weikel, determined that it would be more effective to grout the wells first, and then remove the boxes.
- Site restoration was not specified in the tech memo; however, EA backfilled the abandoned well areas with virgin quarry fines (classified as PADEP clean fill) and compacted the material. In areas outside the SVE liner, topsoil was placed atop the quarry fines to encourage vegetative growth (using bags of topsoil purchased at a local home and garden center).
- Well abandonment “packages” were not submitted per Item #5 in the tech memo, as drillers now use the WebDriller online module to submit well abandonment records.
- Prior to the field effort, USACE agreed that the roll of extra EPDM liner material did not need to be used to cover the areas where the SVE boxes were removed, as the liner was no longer necessary as part of the treatment process. The extra EPDM liner material was disposed of with other site debris.

We appreciate the opportunity to continue to support USACE on this project. Should you have any questions or comments, please do not hesitate to contact us.

Respectfully yours,

EA ENGINEERING, SCIENCE,  
AND TECHNOLOGY, INC.



Michael Dorman, PMP  
Project Manager

Attachments

A: BTGS WebDriller Forms and SVE abandonment summary

Enclosure – Compact Disk

Cc: P. Trowbridge, PADEP  
S. Smith, Fairview Township Manager

**ATTACHMENT A**

**WEBDRILLER ABANDONMENT FORMS AND SVE WELL ABANDONMENT SUMMARY**

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW1</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20008</b> Longitude: <b>-76.81692</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 122 LBS CEMENT, 8 LBS BENSEAL, AND 8 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

7/17/13  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW1A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20028</b> Longitude: <b>-76.81675</b>

Well Depth (ft): <b>15</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>15</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

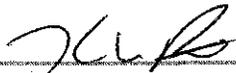
Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW2</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20012</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 122 LBS CEMENT, 8 LBS BENSEAL, AND 8 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW2A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20005</b> Longitude: <b>-76.81696</b>

Well Depth (ft): <b>13</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:      Top: **0**      Bottom: **13**      Diameter: **2**

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW3A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20028</b>	Longitude: <b>-76.81688</b>

Well Depth (ft): <b>15</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>15</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW4</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20002</b>	Longitude: <b>-76.81671</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 216 LBS CEMENT, 13 LBS BENSEAL, AND 14 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
<b>Section 1:</b>	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW4A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20012</b> Longitude: <b>-76.81709</b>

Well Depth (ft): <b>15</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>15</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW5</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>		Zipcode: <b>17070</b>
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>		Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20018</b>	Longitude: <b>-76.81701</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 122 LBS CEMENT, 8 LBS BENSEAL, AND 8 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW5A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>15</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>15</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW6</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 122 LBS CEMENT, 8 LBS BENSEAL, AND 8 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Driller's Signature (required)

Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW6A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

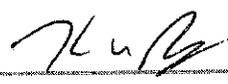
Well Depth (ft): <b>15</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>15</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW7</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>		Zipcode: <b>17070</b>
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>		Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 122 LBS CEMENT, 8 LBS BENSEAL, AND 8 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW7A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>15</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>15</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW8</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>55</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 122 LBS CEMENT, 8 LBS BENSEAL, AND 8 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>55</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW8A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>14</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>14</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW9A</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>12</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 47 LBS CEMENT, 3 LBS BENSEAL, AND 3 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>12</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW10</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>
Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>
Well Depth (ft): <b>35</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:
Description of Well Location and Other Notes: <b>MATERIALS USED TO ABANDON 6-INCH WELL: 940 LBS CEMENT, 56 LBS BENSEAL, AND 60 GALLONS OF WATER. METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.</b>	

<b>BOREHOLE</b>			
Section 1:	Top: 0	Bottom: 35	Diameter: 6

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Driller's Signature (required)

Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW11</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>
Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>
Well Depth (ft): <b>38</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:
Description of Well Location and Other Notes: <b>MATERIALS USED TO ABANDON 6-INCH WELL: 705 LBS CEMENT, 42 LBS BENSEAL, AND 45 GALLONS OF WATER. METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.</b>	

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>38</b>	Diameter: <b>6</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW12</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>60</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 6-INCH WELL: 470 LBS CEMENT, 28 LBS BENSEAL, AND 30 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>60</b>	Diameter: <b>6</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

	<b>7/17/13</b>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW13</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>41</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 6-INCH WELL: 376 LBS CEMENT, 22 LBS BENSEAL, AND 24 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

<b>Section 1:</b>	Top: <b>0</b>	Bottom: <b>41</b>	Diameter: <b>6</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-MW14</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>41</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 6-INCH WELL: 470 LBS CEMENT, 28 LBS BENSEAL, AND 30 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>41</b>	Diameter: <b>6</b>	
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

### WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Drifter Well ID: <b>KR13053-MW15</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>172</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 720 LBS CEMENT, 44 LBS BENSEAL, AND 46 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

#### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>172</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-EW1</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>100</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 4-INCH WELL: 723 LBS CEMENT, 44 LBS BENSEAL, AND 46 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>100</b>	Diameter: <b>4</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.	
	<u>7/17/13</u>
Driller's Signature (required)	Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-EW2</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

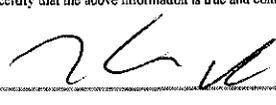
Well Depth (ft): <b>100</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 4-INCH WELL: 723 LBS CEMENT, 44 LBS BENSEAL, AND 46 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>100</b>	Diameter: <b>4</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-EW3</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>100</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 4-INCH WELL: 940 LBS CEMENT, 56 LBS BENSEAL, AND 564 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>100</b>	Diameter: <b>4</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

**7/17/13**  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-OP1</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

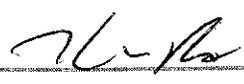
Well Depth (ft): <b>11</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 28 LBS CEMENT, 2 LBS BENSEAL, AND 2 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>11</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
Driller's Signature (required)

7/17/13  
Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-WP1</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>	
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>	
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

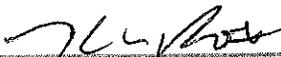
Well Depth (ft): <b>11</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 2-INCH WELL: 28 LBS CEMENT, 2 LBS BENSEAL, AND 2 GALLONS OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>11</b>	Diameter: <b>2</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.



Driller's Signature (required)



Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-WP2</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>
Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>
Well Depth (ft): <b>12</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:
Description of Well Location and Other Notes: <b>MATERIALS USED TO ABANDON 2-INCH WELL: 19 LBS CEMENT, 1 LBS BENSEAL, AND 1 GALLON OF WATER. METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.</b>	

<b>BOREHOLE</b>			
Section 1:	Top: <b>0</b>	Bottom: <b>12</b>	Diameter: <b>2</b>

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Driller's Signature (required)

Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-UN1</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>		
Address of Well: <b>MARSH RUN RD.</b>		Zipcode: <b>17070</b>
County: <b>YORK</b>		
Municipality: <b>FAIRVIEW</b>		Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>		
Quadrangle:	Latitude: <b>40.20015</b>	Longitude: <b>-76.81662</b>

Well Depth (ft): <b>101</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 4-INCH WELL: 723 LBS CEMENT, 44 LBS BENSEAL, AND 46 GALLON OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>101</b>	Diameter: <b>4</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Driller's Signature (required)

Date

## WATER WELL COMPLETION REPORT

Well Driller: <b>EICHELBERGERS INC.</b>	Driller Well ID: <b>KR13053-UN2</b>
Driller License: <b>0198</b>	Local Permit #:
Type of Activity: <b>Well Abandonment</b>	Original Well By: <b>Current Driller</b>
Reason for Abandonment: <b>Well was unused</b>	
Date Drilled: <b>6/12/2013</b>	Drilling Method: <b>AIR ROTARY</b>

Owner: <b>USACE- BALTIMORE DISTRICT</b>	
Address of Well: <b>MARSH RUN RD.</b>	Zipcode: <b>17070</b>
County: <b>YORK</b>	
Municipality: <b>FAIRVIEW</b>	Municipality Type: <b>T</b>
Coordinate Method: <b>Commercial Street Atlas Program</b>	
Quadrangle:	Latitude: <b>40.20015</b> Longitude: <b>-76.81662</b>

Well Depth (ft): <b>50</b>	Well Finish:
Depth to Bedrock (ft):	Did Not Encounter Bedrock:
Well Yield (gpm):	Yield Measure Method:
Static Water Level: (ft below land surface)	Water level after yield test: (ft below land surface)
Length of Yield Test: (minutes)	Saltwater Zone (ft):
Use of Well: <b>MONITORING</b>	Use of Water:

Description of Well Location and Other Notes:  
**MATERIALS USED TO ABANDON 4-INCH WELL: 360 LBS CEMENT, 22 LBS BENSEAL, AND 23 GALLON OF WATER.  
METHOD: PRESSURE TREMIE GROUT FROM BOTTOM UP.**

### BOREHOLE

Section 1:	Top: <b>0</b>	Bottom: <b>50</b>	Diameter: <b>4</b>
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.



7/17/13

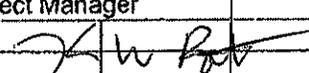
Driller's Signature (required)

Date

Well Abandonment  
Spreadsheet

Job ID No: KR13053				Date: 6/7/13					
Type of Site Program:				County: York					
Municipality: Fairview Twp				Longitude: W					
Latitude: N				Site Address: Marsh Run Rd					
Owner Name: USACE - Baltimore District				Address: New Cumberland PA 17070					
Address: 10 South Howard St 10th Floor Baltimore MD 21201				Topography: Bold		Hilltop, Slope, Stream Terrace, Valley Stream Channel, Draw, Local Depression, Flat			
Use of Well: SVE				Diameter of Casings(if present):					
Location of Screen(if present):				Grouting of Well:					
Amount Casing/Screen Removed:				Diameter of Casing/Screen Removed:					
Well ID	Depth in feet	Diameter in inches	Cement (94lbs)	Benseal Powder Bentonite (50lbs)	Bentonite Chips Holeplug (50 lbs)	Gal Water (6 gal per bag of Cem.)	Sakrete (80 lbs)	Ashphalt (50 lbs)	Topsoil (50 lbs)
A-1	7.5	4	47	3		3			
B-1	8	4	50	3		3			
B-2	8	4	50	3		3			
C-1	13	4	81	5		5			
C-2	11	4	69	4		4			
C-3	9.5	4	60	4		4			
C-4	7.5	4	47	3		3			
C-5	8.5	4	53	3		3			
C-6	9	4	56	3		3			
C-7	10	4	63	4		4			
D-1	9.5	4	60	4		4			
D-2	10.5	4	66	4		4			
D-3	10	4	63	4		4			
D-4	11	4	69	4		4			
D-5	12.5	4	78	5		5			
D-6	10	4	63	4		4			
D-7	10	4	63	4		4			
D-8	10	4	63	4		4			
D-9	10.5	4	66	4		4			
E-1	9.5	4	60	4		4			
Method of Abandonment: Pressure tremie grout from bottom up									
Staff Environmental Scientist:				Date:					
Company:				Address:					
Eichelbergers, Inc. - Project Manager				Date: 7/19/13					
									

Well Abandonment  
Spreadsheet

Job ID No: <b>KR13053</b>		Date: <b>6/7/13</b>							
Type of Site Program:		County: <b>York</b>							
Municipality: <b>Fairview Twp</b>		Longitude: <b>W</b>							
Latitude: <b>N</b>		Site Address: <b>Marsh Run Rd</b>							
Owner Name: <b>USACE - Baltimore District</b>		Address: <b>New Cumberland PA 17070</b>							
Address: <b>10 South Howard St 10th Floor</b>		<b>Baltimore MD 21201</b>							
Topography: <b>Bold</b>		Hilltop, Slope, Stream Terrace, Valley Stream Channel, Draw, Local Depression, Flat							
Use of Well: <b>SYE</b>		Diameter of Casings (if present):							
Location of Screen (if present):		Grouting of Well:							
Amount Casing/Screen Removed:		Diameter of Casing/Screen Removed:							
Well ID	Depth in feet	Diameter in inches	Cement (94lbs)	Benseal Powder	Bentonite Chips	Gal Water (6 gal per bag of Cem.)	Sakrete (80 lbs)	Ashphalt (50 lbs)	Topsoil (50 lbs)
				Bentonite (50lbs)	Holeplug (50 lbs)				
E-2	10.5	4	66	4		4			
E-3	10.5	4	66	4		4			
E-4	10.5	4	66	4		4			
E-5	10	4	63	4		4			
E-6	10	4	63	4		4			
E-7	11	4	69	4		4			
E-8	10.5	4	66	4		4			
E-9	10.5	4	66	4		4			
F-1	12.5	4	78	4		4			
F-2	11	4	69	4		4			
F-3	10.5	4	66	4		4			
F-4	10	4	63	4		4			
F-5	10	4	63	4		4			
F-6	10.5	4	66	4		4			
F-7	10	4	63	4		4			
F-8	10	4	63	4		4			
F-9	10	4	63	4		4			
G-1	11	4	69	4		4			
G-2	10.5	4	66	4		4			
G-3	11.5	4	72	4		4			
Method of Abandonment: <b>Pressure tremie grout from bottom up</b>									
Staff Environmental Scientist:						Date:			
Company:						Address:			
Eichelbergers, Inc. - Project Manager						Date: <b>7/19/13</b>			
									

Well Abandonment  
Spreadsheet

Job ID No: KR13053		Date: 6/17/13							
Type of Site Program:		County: York							
Municipality: Fairview Twp		Longitude: W							
Latitude: N		Site Address: Marsh Run Rd							
Owner Name: USACE - Baltimore District		Address: New Cumberland PA 17070							
Address: 10 South Howard St 10th Floor Baltimore MD 21201		Topography: Bold							
Use of Well: SVE		Hilltop, Slope, Stream Terrace, Valley Stream Channel, Draw, Local Depression, Flat							
Location of Screen(if present):		Diameter of Casings(if present):							
Amount Casing/Screen Removed:		Grouting of Well:							
		Diameter of Casing/Screen Removed:							
Well ID	Depth in feet	Diameter in inches	Cement (94lbs)	Benseal Powder Bentonite (50lbs)	Bentonite Chips Holeplug (50 lbs)	Gal Water (6 gal per bag of Cem.)	Sakrete (80 lbs)	Ashphalt (50 lbs)	Topsoil (50 lbs)
G-4	10.5	4	66	I		I			
G-5	11	I	69	I		I			
G-6	11	I	69	I		I			
G-7	11	I	69	I		I			
G-8	11	I	69	I		I			
G-9	10.5	I	66	I		I			
H-1	10.5	I	66	I		I			
H-2	13.5	I	85	I		I			
H-3	13.5	I	85	I		I			
H-4	11	I	69	I		I			
H-5	11	I	69	I		I			
H-6	10.5	I	66	I		I			
H-7	10.5	I	66	I		I			
H-8	10	I	63	I		I			
I-1	10.5	I	66	I		I			
I-2	10.5	I	66	I		I			
I-3	10.5	I	66	I		I			
I-4	10.5	I	66	I		I			
Method of Abandonment: Pressure tremie grout from bottom up									
Staff Environmental Scientist:				Date:					
Company:				Address:					
Eichelbergers, Inc. - Project Manager				Date: 7/19/13					
JKW/ptr									