

AECOM Environment

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January 28, 2010

Sent via email

Mr. Anthony Karziel
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7014

Subject: NAPL Recovery Monitoring – Status Report November 2009
Site #: 7-09-011
Project Title: NYSEG – Norwich Former MGP Site

Dear Mr. Karziel:

On behalf of New York State Electric and Gas Corporation (NYSEG), AECOM has prepared this letter to describe events associated with non-aqueous phase liquid (NAPL) collection at the Norwich Former Manufactured Gas Plant in Norwich, NY. This letter summarizes activities at the site during the month of November 2009. These activities included off-site disposal of 19,000 gallons of NAPL/water mixture and installation of 12 geoprobe borings on the property south of Front Street to delineate the extent of NAPL in the saturated soils above the confining clay layer.

PRODUCT DISPOSAL

From November 16, 2009 through November 25, 2009 approximately 19,000 gallons of NAPL/water mixture was disposed of from the frac tank located on the property south of Front Street using a vacuum truck provided by Clean Harbors. The NAPL/water mixture was collected from the property south of Front Street during the month of October and was summarized in the October Status Report. The frac tank was cleaned first using a diesel petroleum mixture and then an ez-green© and water solution. All liquids generated during cleaning were collected and disposed of at an offsite disposal facility in Richmond, VA. Continuous air monitoring was performed during all site activities.

GEO-PROBE INVESTIGATION

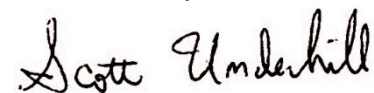
On November 23, 2009 a total of twelve borings were installed on the property south of Front Street. Figure 1 shows the location of each boring and Attachment A includes the boring logs. As depicted in Figure 1, non-viscous coal tar was present in several borings located on the Front Street Property. The borings have now completely delineated the extent of NAPL saturated soils present on the property.

RECOMMENDATIONS

Recovery of NAPL at the site has been suspended due to freezing conditions and will resume in the spring 2010. In addition, three additional NAPL recovery wells will be installed in the spring 2010 at the approximate locations shown in Figure 1. The locations of the NAPL recovery wells were chosen to maximize the potential for NAPL recovery based on the geoprobe investigation described above.

Should you have any questions or require additional information in the meantime, please do not hesitate to call me at (518) 396-7638 or Tracy Blazicek at (607) 762-8839.

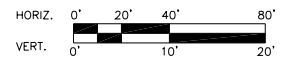
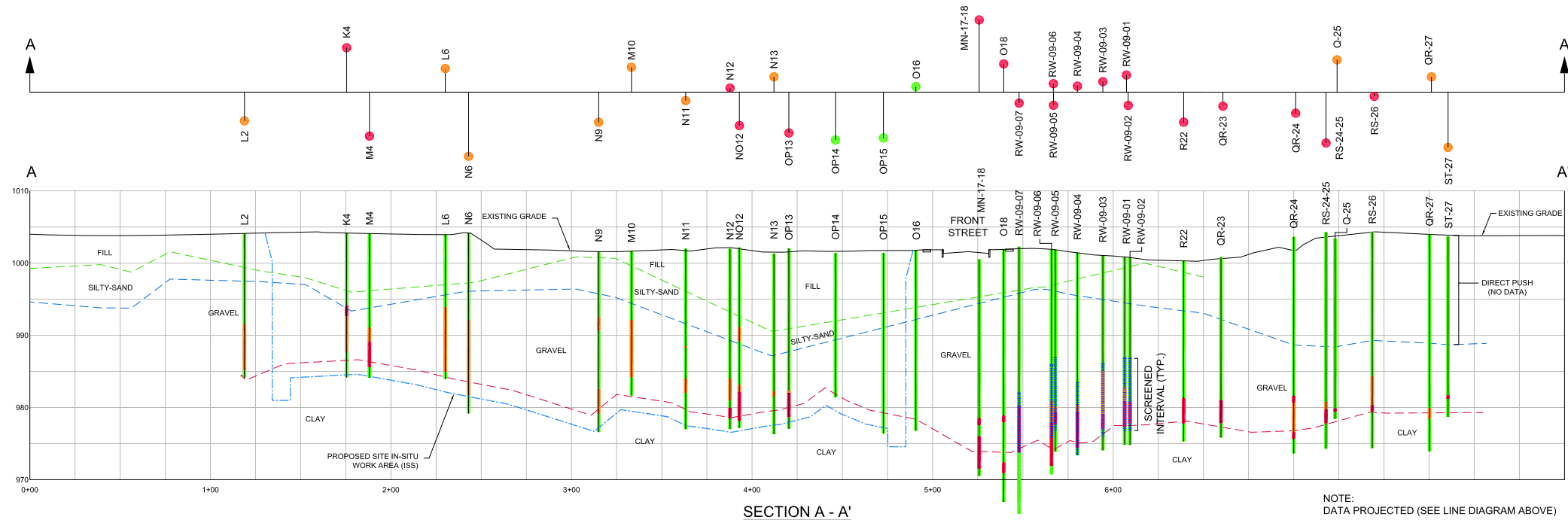
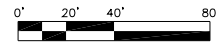
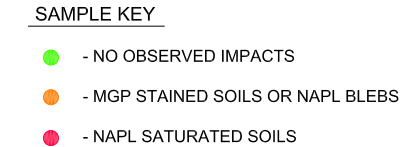
Yours Sincerely,



Scott Underhill, PE
Project Manager

cc: T. Blazicek, NYSEG

FIGURE



<p>NYSEG FORMER NORWICH MGP SITE NORWICH, NEW YORK</p>		<p>AECOM</p> <p>40 British American Blvd. Latham, New York 12110 T 518.951.2200 F 518.951.2300 WWW.AECOM.COM</p>		<p>1-INCH</p> <p>VERIFY SCALE IF PLAN SHEET IS REDUCED</p>	
<p>PROJECT START DATE (M / Y) JANUARY 2010</p>		<p>DRN BY: ---</p>		<p>DRN</p>	
<p>PROJECT NO. 106404</p>		<p>DES BY: ---</p>		<p>CHK</p>	
<p>FILENAME Norwich-Base.dwg</p>		<p>CHK BY: ---</p>		<p>DATE</p>	
<p>SHEET NO. 1</p>		<p>APP BY: ---</p>		<p>DESCRIPTION</p>	
<p>DRAWING NO. 1</p>		<p>REV ---</p>		<p>CHK DATE (M/D/Y)</p>	

ATTACHMENT A
November 2009 Geoprobe Boring Logs

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 20.0

Logged By: K. Stahle

Depth (Feet)	Recovery (Feet)	PID (ppm)	Sample ID	Sample Interval	Lithology	USCS	Visual Impacts	Geologic Description	Remarks	Well Construction
0								Direct push with closed piston from 0 to 15.0 ft bgs.		
-2										
-4										
-6										
-8										
-10										
-12										
-14										
-16						GP		Brown medium-coarse GRAVEL, some medium SAND; wet, loose.		
-18	4.8					CL		Gray CLAY; dry, compact. Boring terminated at 20.0 ft bgs.		
-20										



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 18.5' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

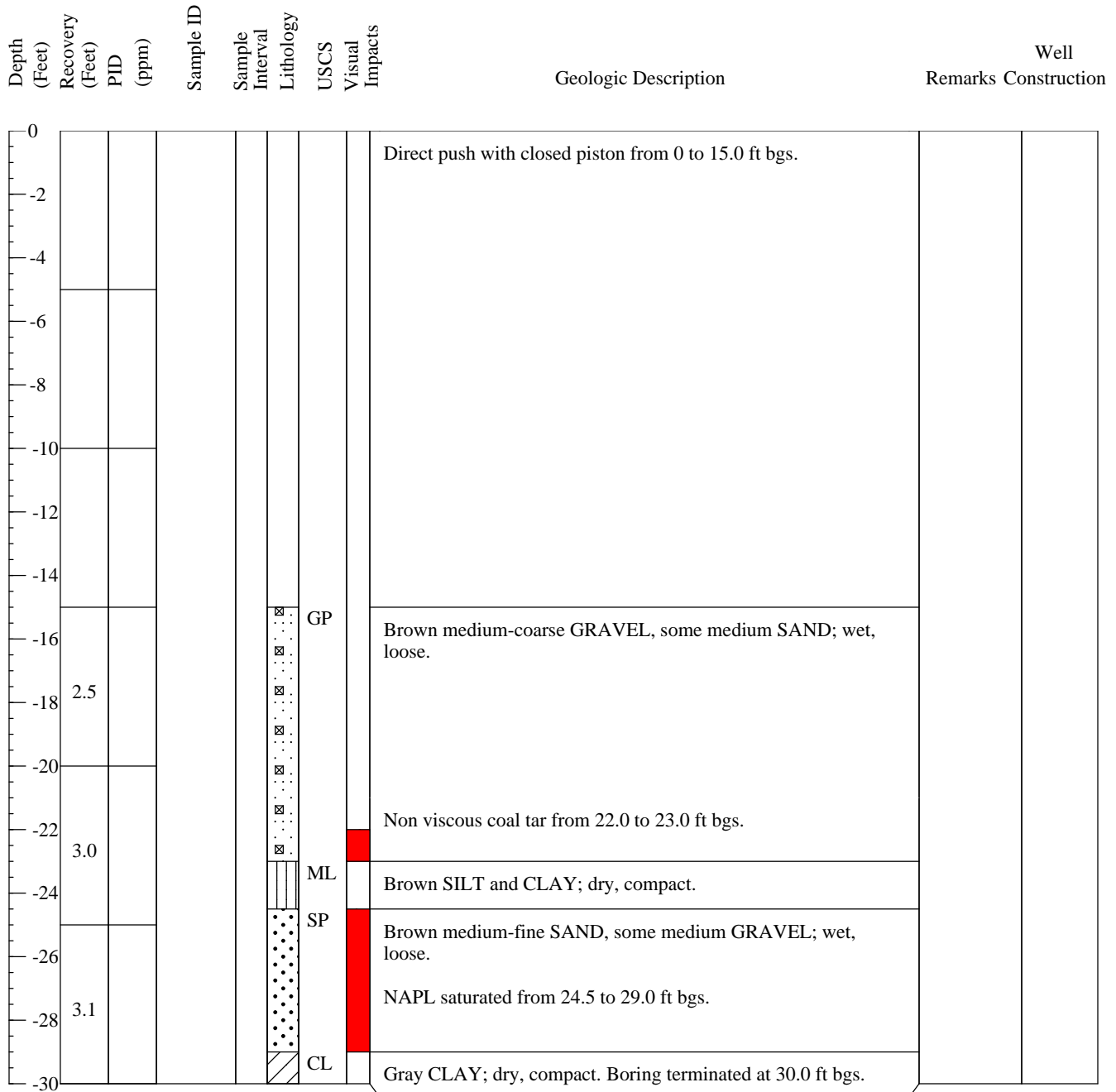
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 30.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 29.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 20.0

Logged By: K. Stahle

Depth (Feet)	Recovery (Feet)	PID (ppm)	Sample ID	Sample Interval	Lithology	USCS	Visual Impacts	Geologic Description	Remarks	Well Construction
0								Direct push with closed piston from 0 to 15.0 ft bgs.		
-2										
-4										
-6										
-8										
-10										
-12										
-14										
-16						GP		Brown medium-coarse GRAVEL, some medium SAND; wet, loose.		
-18	3.5					CL		Gray CLAY; dry, compact. Boring terminated at 20.0 ft bgs.		
-20										



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 18.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

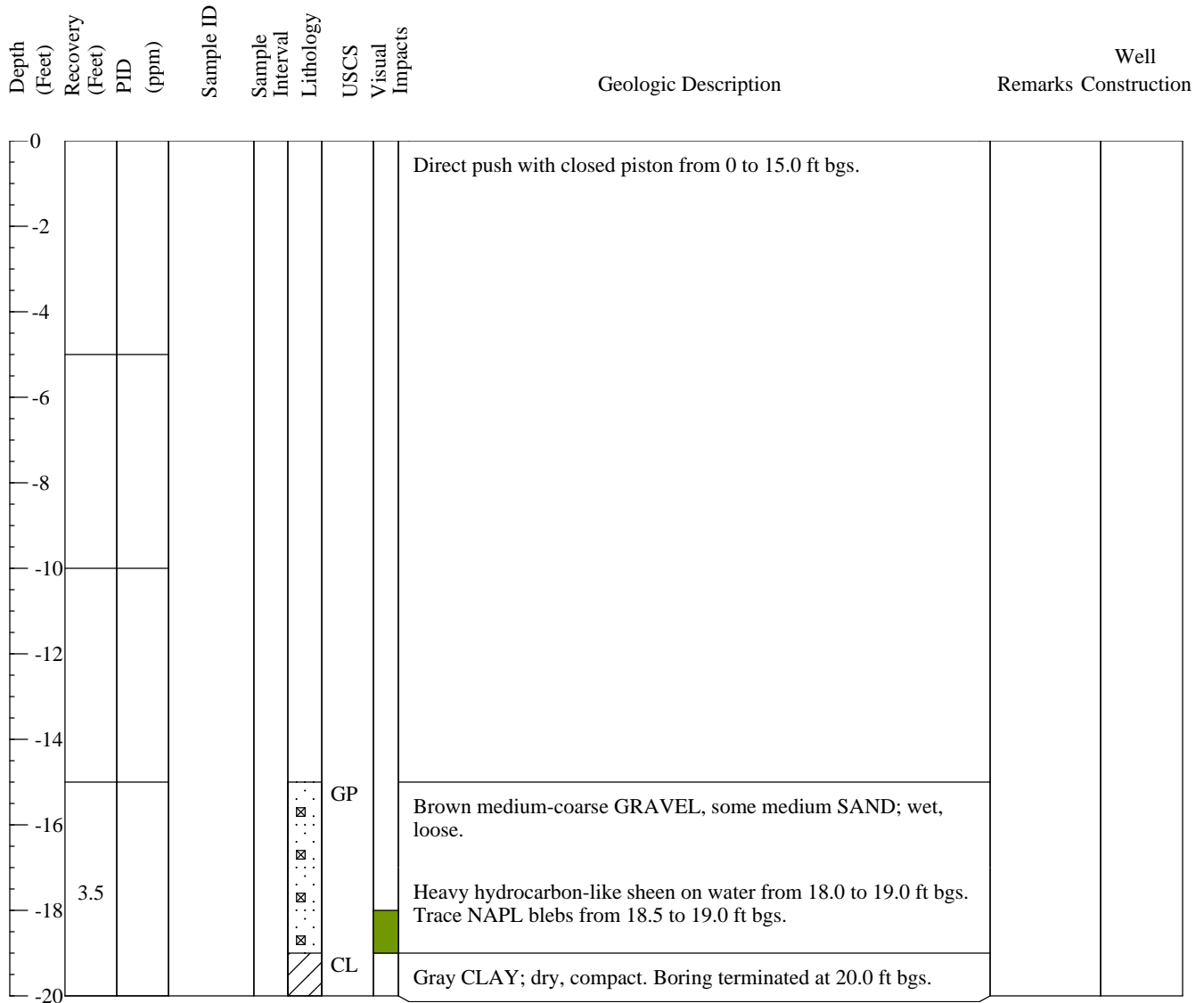
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 20.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 19.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 25..0

Logged By: K. Stahle

Depth (Feet)	Recovery (Feet)	PID (ppm)	Sample ID	Sample Interval	Lithology	USCS	Visual Impacts	Geologic Description	Remarks	Well Construction
0								Direct push with closed piston from 0 to 15.0 ft bgs.		
-2										
-4										
-6										
-8										
-10										
-12										
-14										
-16						GP		Brown medium-coarse GRAVEL, some medium SAND; wet, loose.		
-18	3.5									
-20										
-22	2.5							Trace NAPL blebs from 23.5 to 24.0 ft bgs.		
-24						CL		Gray CLAY; dry, compact. Boring terminated at 25.0 ft bgs.		



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 24.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

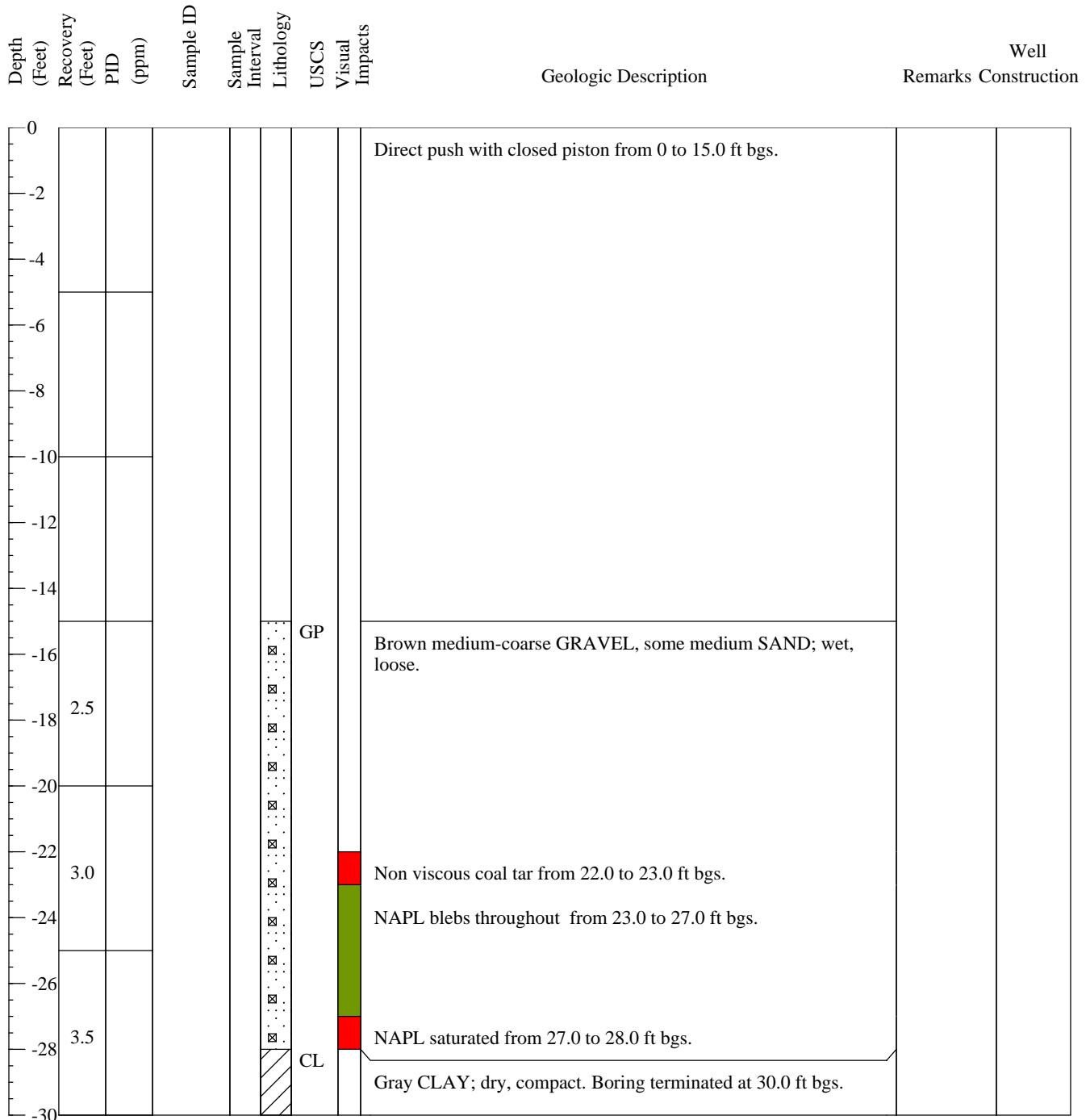
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 30.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 28.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

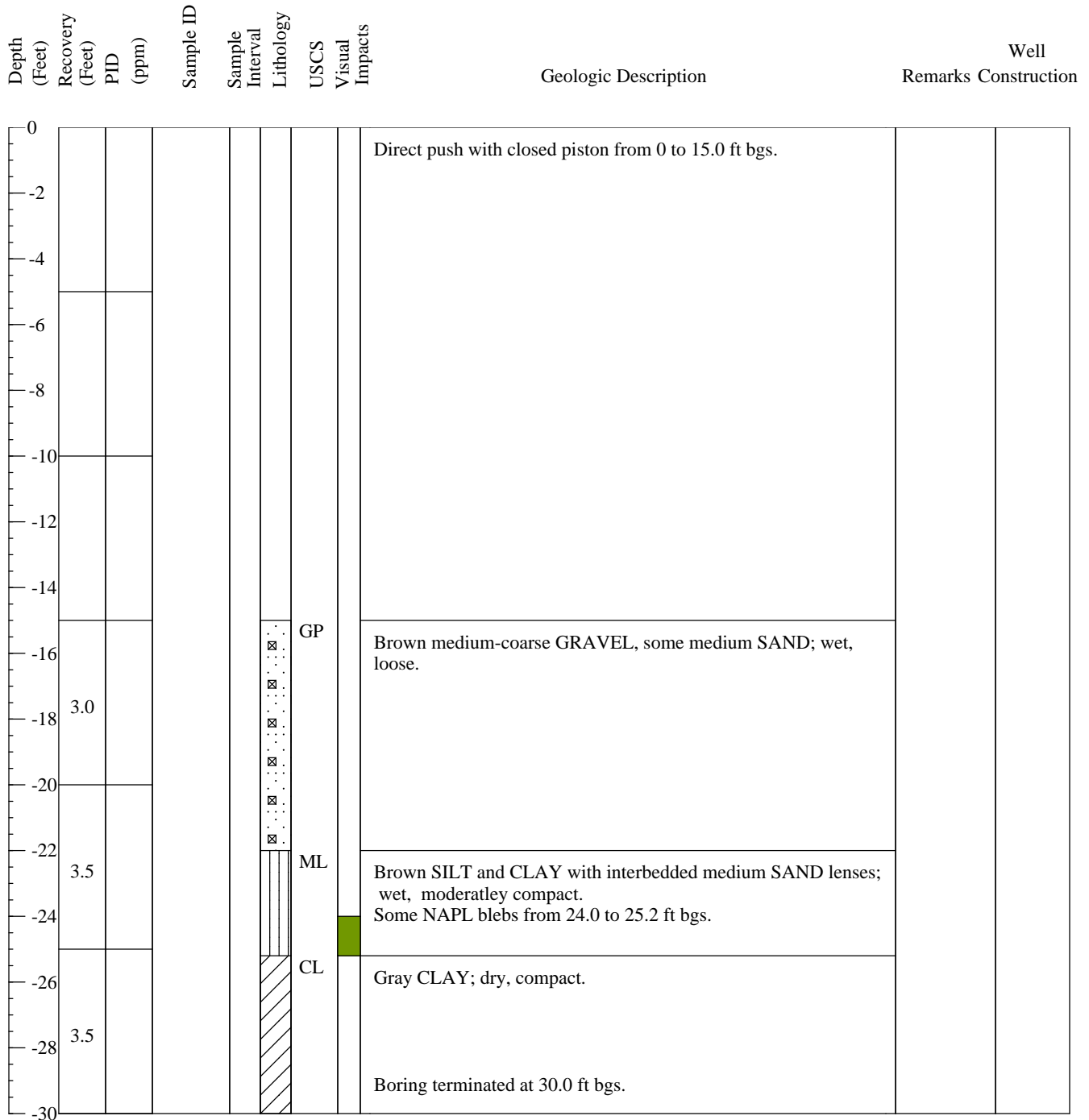
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 30.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 25.2' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

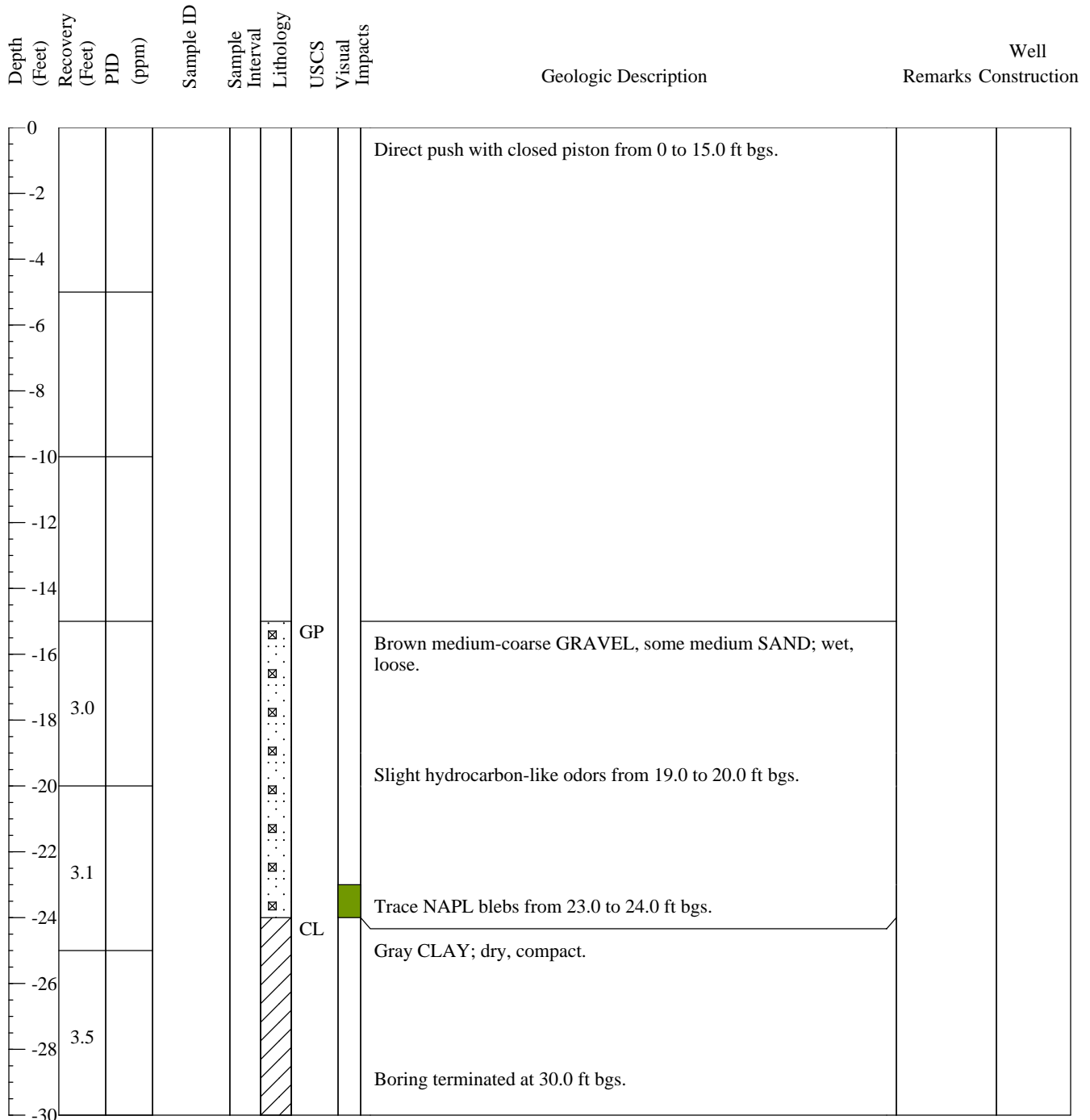
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 30.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 24.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

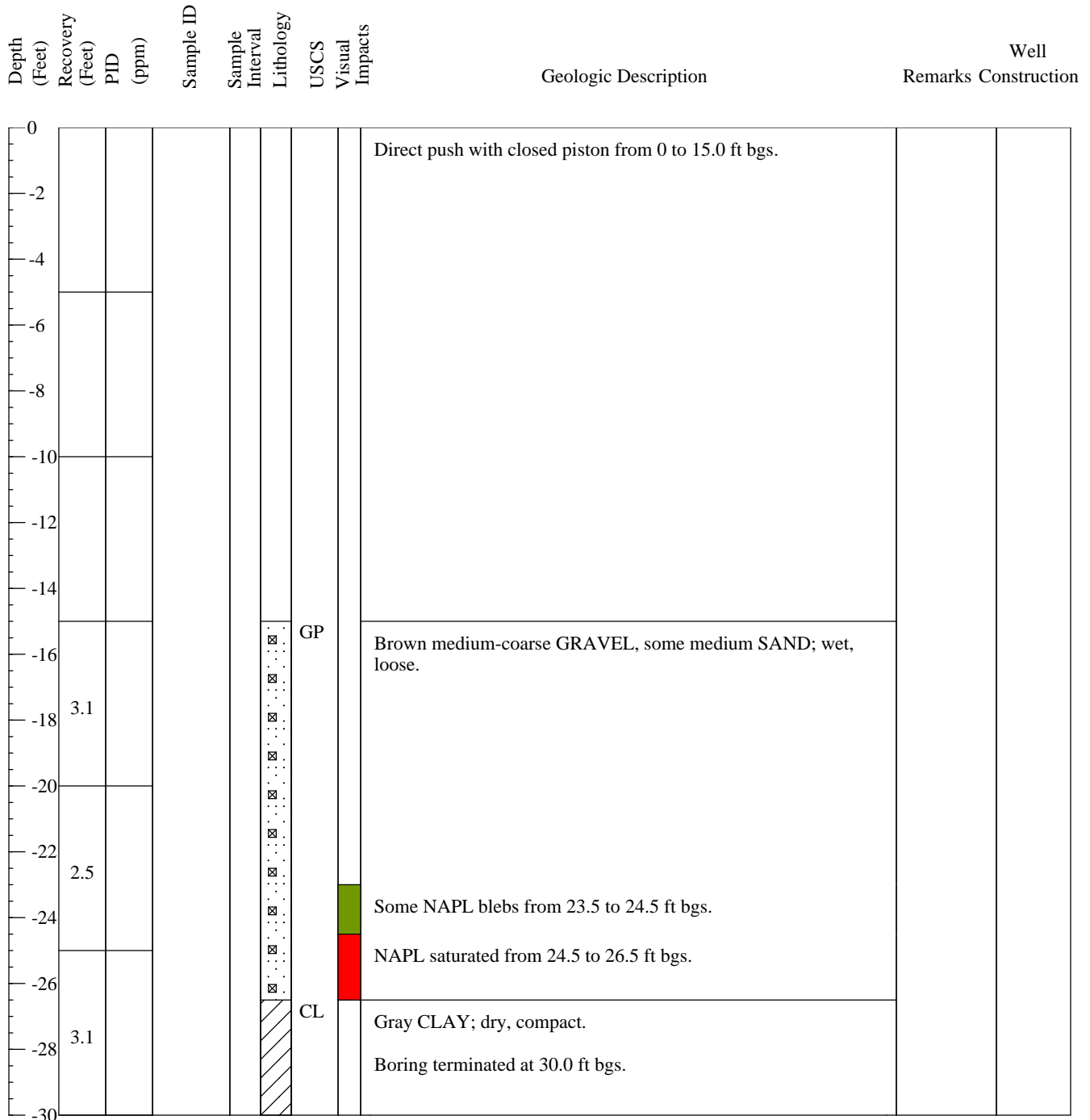
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 30.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 26.5' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

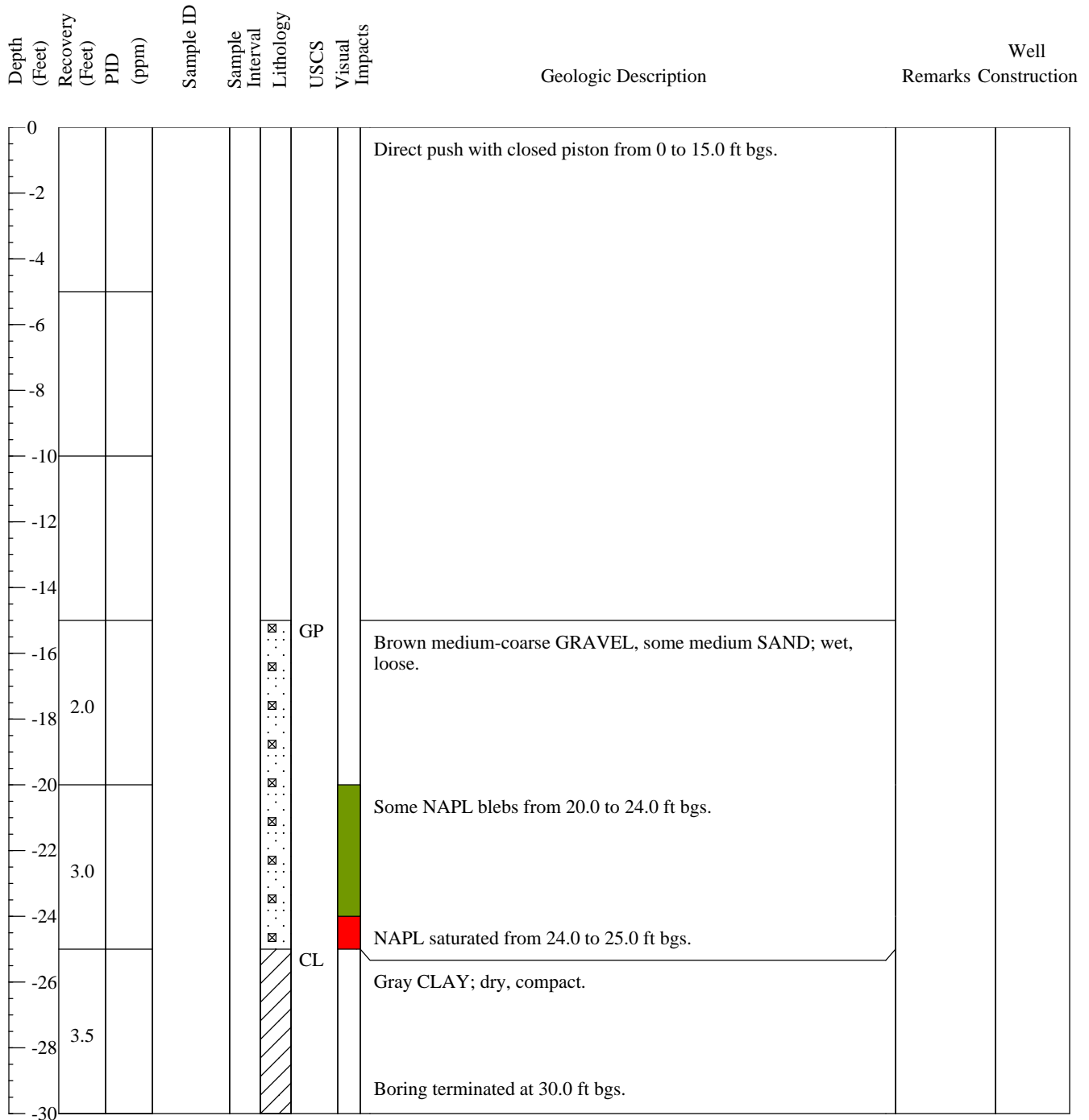
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 30.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 25.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 25..0

Logged By: K. Stahle

Depth (Feet)	Recovery (Feet)	PID (ppm)	Sample ID	Sample Interval	Lithology	USCS	Visual Impacts	Geologic Description	Remarks	Well Construction
0								Direct push with closed piston from 0 to 15.0 ft bgs.		
-2										
-4										
-6										
-8										
-10										
-12										
-14										
-16						GP		Brown medium-coarse GRAVEL, some medium SAND; wet, loose.		
-18	2.5							Moderate hydrocarbon-like odors from 18.0 to 20.0 ft bgs.		
-20										
-22	2.5							Some NAPL blebs from 23.5 to 24.0 ft bgs.		
-24						CL		Gray CLAY; dry, compact. Boring terminated at 25.0 ft bgs.		



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 24.0' - Top of clay

Project Name: Norwich MGP Site

NYSEG/Project Number: NYSEG/04964-031

Date Started/Date Completed: 11/23/09

Boring Location:

Drilling Company: Zebra

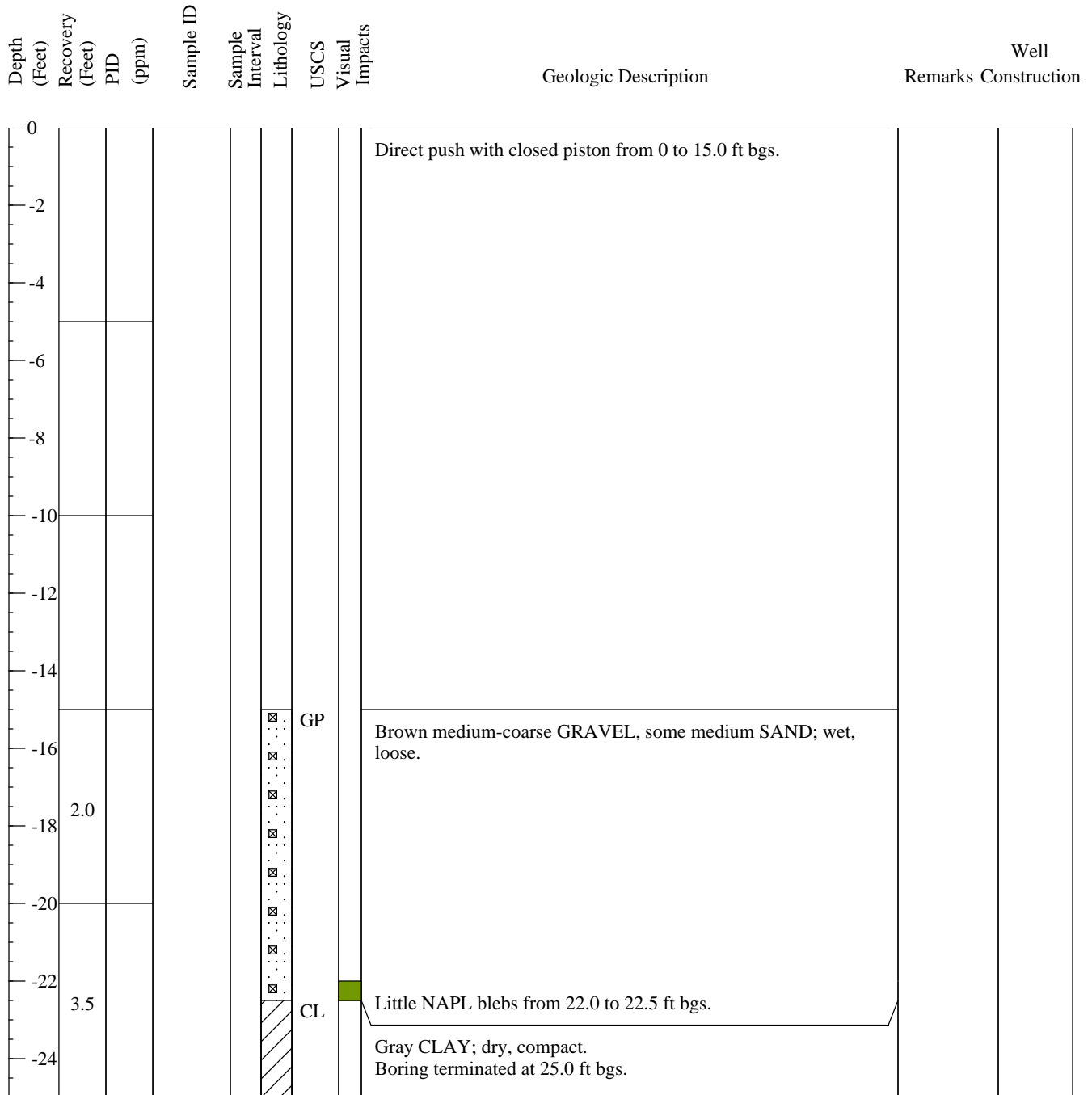
Sampling Method: Direct-Push, macro-core

PVC Elevation (ft/msl, NAVD 88):

Ground Elevation (ft/msl, NAVD 88):

Total Depth: 25.0

Logged By: K. Stahle



Coal Tar or Coal Tar NAPL Saturated Soil



Hydrocarbon Staining, Hydrocarbon Sheen or NAPL Blebs

Comments: 22.5' - Top of clay