

December 10, 2013

Mr. Brian Wootton
NCDENR Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

**RE: Davidson County Landfill Piezometer Abandonment
Lined MSW Phase 2 Area 2
Permit No. 29-06**

Dear Mr. Wootton:

Smith Gardner, Inc., (S+G) is pleased to present this letter report regarding piezometer abandonment at the Davidson County Lined MSW Landfill, Phase 2 Area 2 Expansion. Eight piezometers were abandoned in accordance with 15A NCAC 02C .0113 and the approved site Water Quality Monitoring Plan¹.

Piezometer Abandonment

Davidson County subcontracted HPC Land Services (HPC) out of Albemarle, North Carolina to abandon PZ-12, PZ-12D, PZ-35S, PZ-35D, PZ-58, PZ-59, PZ-62 and PZ-63 installed in the footprint of the future Phase 2 Area 2 MSW cell as part of the permit application groundwater investigation. Due to the piezometer locations within the future cell footprint proper abandonment included over-drilling and grouting to ensure pathways were not available for potential contaminant flow.

S+G and HPC personnel mobilized at the Davidson County facility November 4-6, 2013. Well abandonment procedure included removing the concrete pad, steel casing and the PVC screen and pipe. The steel casings and pad, where present, were removed by JTR personnel present on site for cell construction. Boreholes were over-drilled to well bottom elevations, using a 4.25" HSA auger. PVC pipe and screen were removed by inserting a pipe inside the PVC pipe and pulling the pipe with the drill rig.

Grout was force injected through a tremie pipe starting at the well bottoms and pumped to the approved subgrade elevation in one continuous operation. Due to subsurface conditions only PZ-59, PZ-62 and PZ-63 had boreholes that remained open following over-drilling; the other five piezometers were grouted through the augers. Each piezometer was grouted to the approximate future subgrade elevation to allow for future soil grading in certain areas. In areas of future fill, grout was emplaced to the current ground surface. Well pads, casing and pipe were disposed of properly.

¹ Water Quality Monitoring Plan; Phase 2 Areas 1 and 2, January 2013, Smith Gardner, Inc.

Mr. Wootton
December 10, 2013
Page 2 of 2

Well boring logs and abandonment records for monitoring wells and piezometers are provided as **Attachment A. Figure 1** shows the well abandonment locations.

If you have any questions regarding this well abandonment letter or require additional information, please contact us at (919) 828- 0577 or by email below.

Sincerely,
SMITH GARDNER, INC.



Madeline German, P.G.
Project Geologist
madeline@smithgardnerinc.com



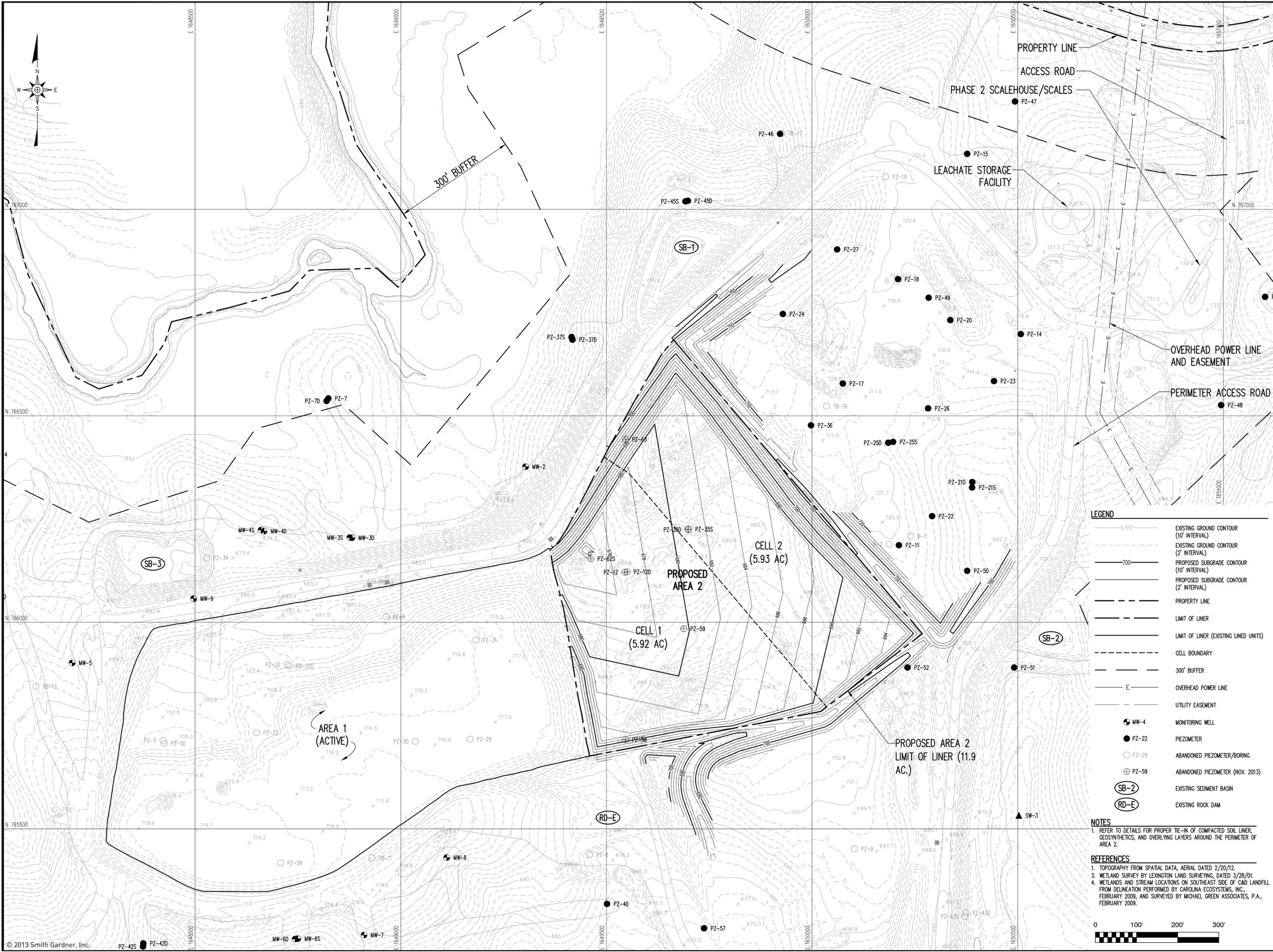
Joan A. Smyth, P.G.
Senior Hydrogeologist
joan@smithgardnerinc.com

Attachments: Figure 1
 Well construction and abandonment records

cc: Charlie Brushwood, Davidson County
 Hugh Jernigan, NCDENR-WSRO
 File

Figure

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PREPARED FOR:
**DAVIDSON COUNTY
 MSW LANDFILL**

PREPARED BY:
 NC LIC. NO. C-0829 (ENGINEERING)
**SMITH+
 GARDNER
 ENGINEERS**
 14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL
SEAL

REV.	DATE	DESCRIPTION

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PROJECT TITLE:
**DAVIDSON COUNTY
 PHASE 2 AREA 2
 DESIGN HYDROGEOLOGIC STUDY**

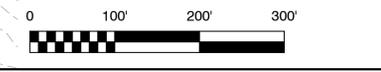
DRAWING TITLE:
**PHASE 2 AREA 2
 WELL ABANDONMENT
 NOVEMBER 2013**

DESIGNED	J.A.S.	PROJECT NO.	DAVDCO-13-2
DRAWN	K.C.B.	SCALE	AS SHOWN
APPROVED		DATE	DEC 2013
FILENAME	DAVDCO-D0770		
SHEET NUMBER	DRAWING NUMBER		

FIG. 1

- LEGEND**
- 690 ——— EXISTING GROUND CONTOUR (10' INTERVAL)
 - 700 ——— EXISTING GROUND CONTOUR (2' INTERVAL)
 - PROPOSED SUBGRADE CONTOUR (10' INTERVAL)
 - PROPOSED SUBGRADE CONTOUR (2' INTERVAL)
 - PROPERTY LINE
 - LIMIT OF LINER
 - LIMIT OF LINER (EXISTING LINED UNITS)
 - CELL BOUNDARY
 - 300' BUFFER
 - E— OVERHEAD POWER LINE
 - U— UTILITY EASEMENT
 - MW-4 MONITORING WELL
 - PZ-22 PIEZOMETER
 - PZ-29 ABANDONED PIEZOMETER/BORING
 - ⊕ PZ-59 ABANDONED PIEZOMETER (NOV. 2013)
 - SB-2 EXISTING SEDIMENT BASIN
 - RD-E EXISTING ROCK DAM

- NOTES**
- REFER TO DETAILS FOR PROPER TIE-IN OF COMPACTED SOIL LINER, GEOSYNTHETICS, AND OVERLYING LAYERS AROUND THE PERIMETER OF AREA 2.
- REFERENCES**
- TOPOGRAPHY FROM SPATIAL DATA, AERIAL DATED 2/20/12.
 - WETLAND SURVEY BY LEXINGTON LAND SURVEYING, DATED 3/28/01.
 - WETLANDS AND STREAM LOCATIONS ON SOUTHEAST SIDE OF C&D LANDFILL FROM DELINEATION PERFORMED BY CAROLINA ECOSYSTEMS, INC., FEBRUARY 2009, AND SURVEYED BY MICHAEL GREEN ASSOCIATES, P.A., FEBRUARY 2009.



G:\CAD\Davidson\Davidson-13-2\shelton\DAVDCO-D0770.dwg - 12/22/2013 2:27 PM

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Attachment A

Well Abandonment Records

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G. N. Richardson & Associates, Inc.

14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **PZ-12**

Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA**

FIELD PARTY: **R. Barron**

GEOLOGIST: **P. May**

DATE BEGUN: **11/1/00** COMPLETED: **11/1/00**

TOTAL DEPTH: **25**

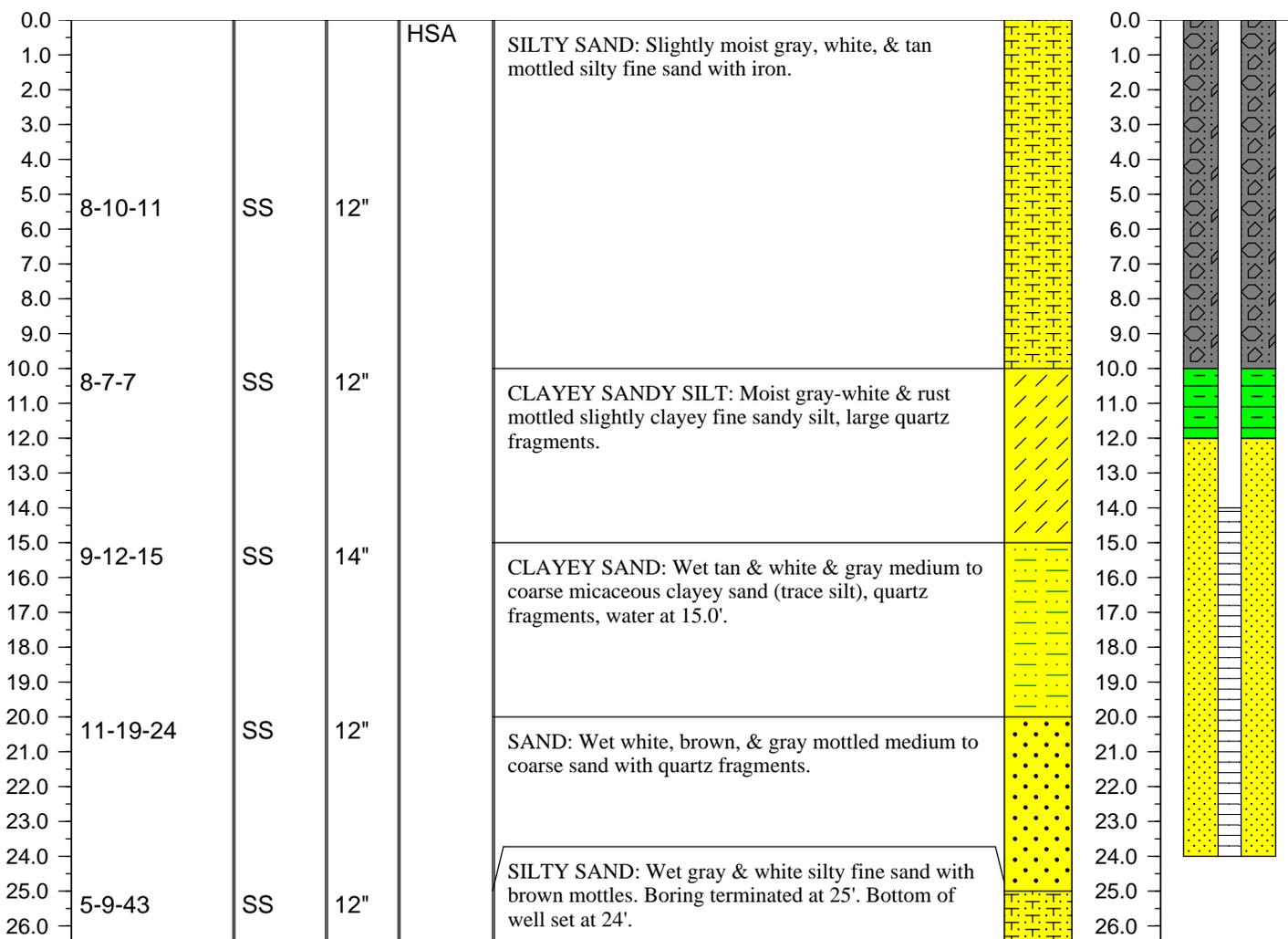
GROUND SURFACE ELEVATION: **680.48**

TOP OF CASING ELEVATION: **682.71**

STATIC WATER LEVEL (BLS)

Depth (ft)	15.9	15.9
Time	10:00	10:30
Date	11/1/00	11/2/00

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
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**Richardson Smith Gardner & Assoc**14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577**FIELD BOREHOLE LOG**BOREHOLE NUMBER **PZ-35s**

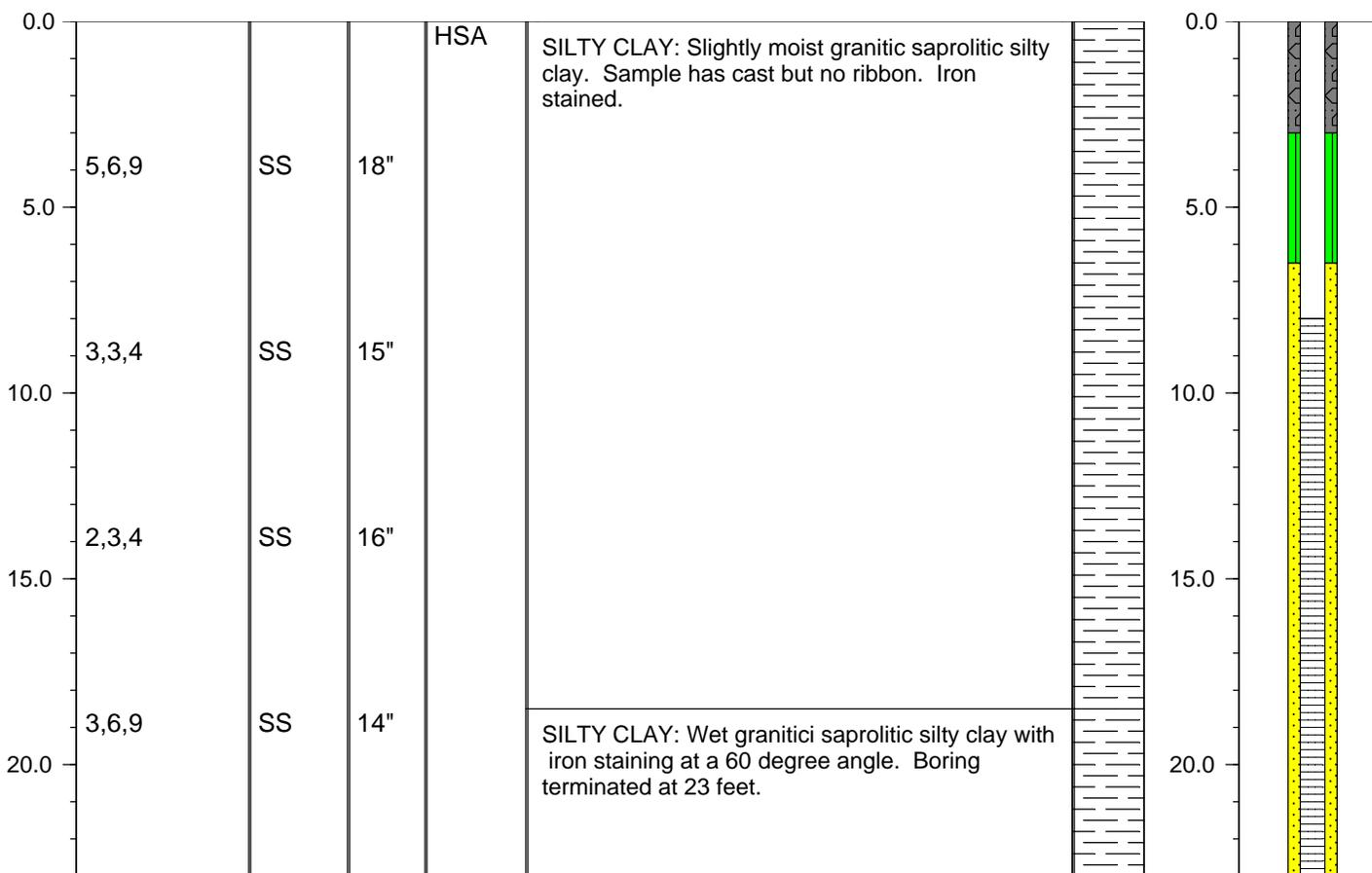
Page 1 of 1

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **R. Barron**
 GEOLOGIST: **J. Smyth**
 DATE BEGUN: **9/20/04** COMPLETED: **9/20/04**

TOTAL DEPTH: **23**
 TOP OF CASING ELEV.:
 NORTHING: **0** GROUND ELEV.:
 EASTING: **0**

STATIC WATER LEVEL (BLS)		
Depth (ft)	18	14.21
Time	3 pm	4:07
Date	9/20/04	10/12/04

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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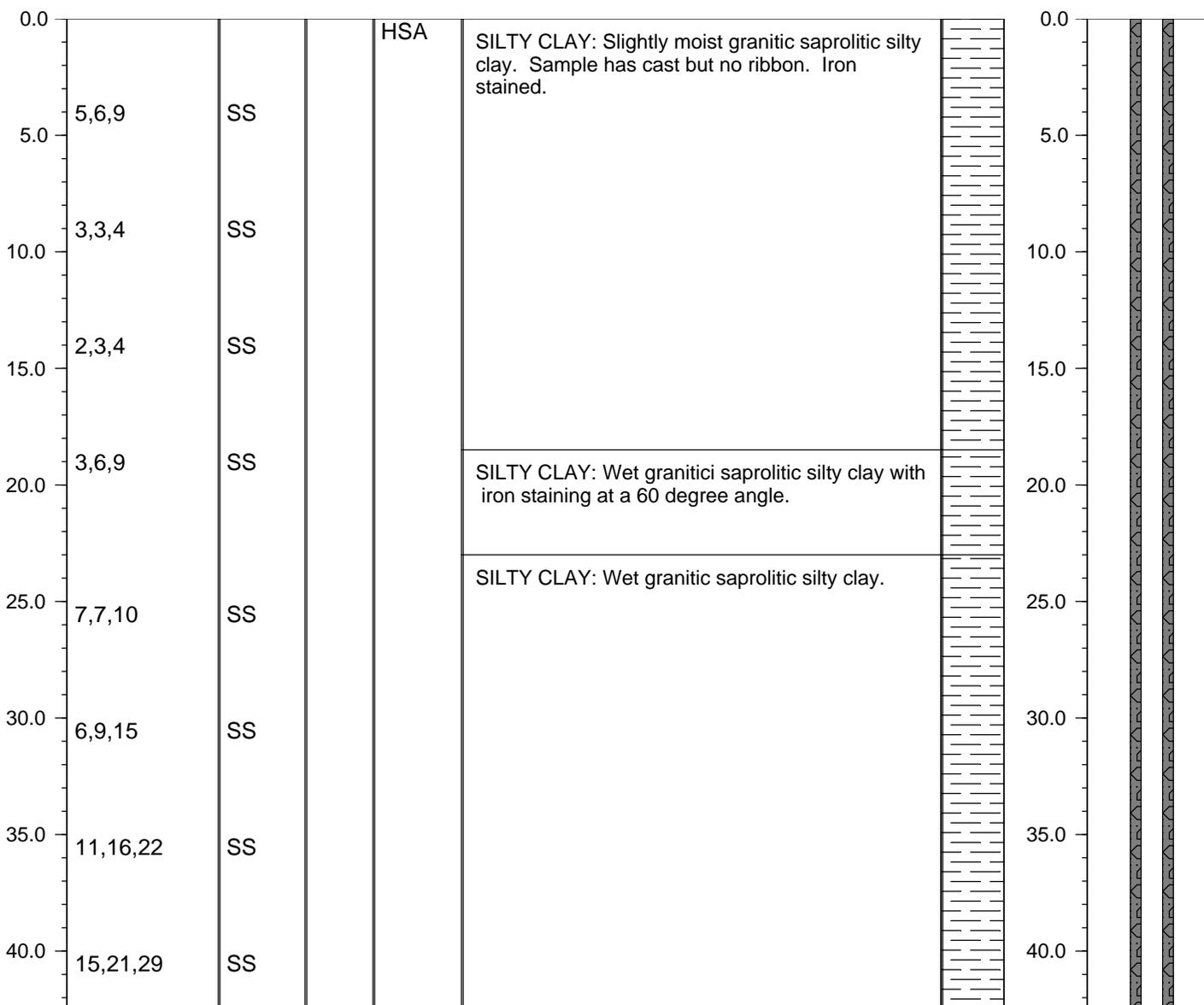
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **R. Barron**
 GEOLOGIST: **J. Smyth**
 DATE BEGUN: **9/15/04** COMPLETED: **9/16/04**

TOTAL DEPTH: **73**
 TOP OF CASING ELEV.:
 NORTHING: **0** GROUND ELEV.:
 EASTING: **0**

STATIC WATER LEVEL (BLS)		
Depth (ft)		14.02
Time		4:10
Date		10/12/04

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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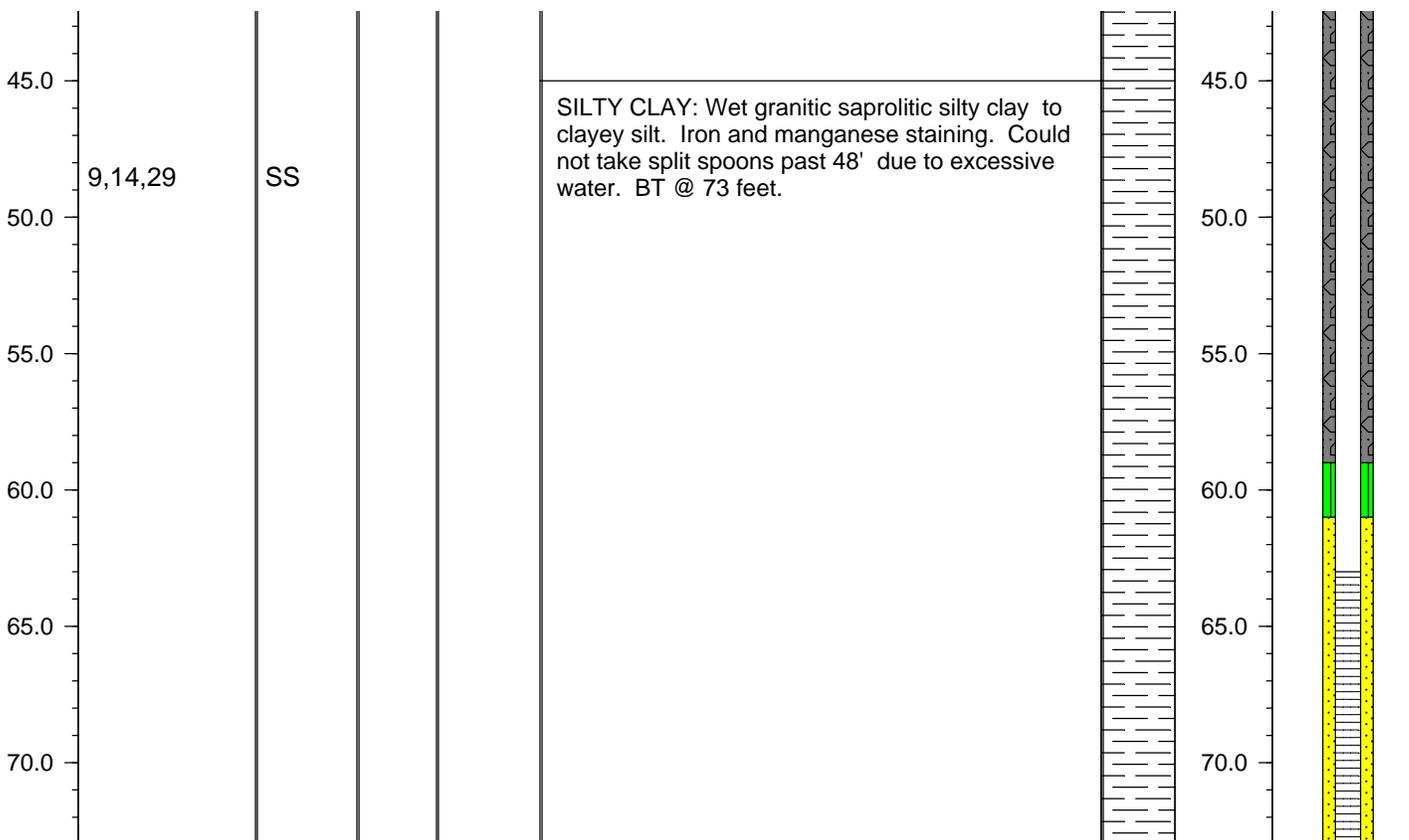
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County - Phase 2**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **HSA**
 FIELD PARTY: **R. Barron**
 GEOLOGIST: **J. Smyth**
 DATE BEGUN: **9/15/04** COMPLETED: **9/16/04**

TOTAL DEPTH: **73**
 TOP OF CASING ELEV.: GROUND ELEV.:
 NORTHING: **0** EASTING: **0**

STATIC WATER LEVEL (BLS)		
Depth (ft)		14.02
Time		4:10
Date		10/12/04

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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FIELD BOREHOLE LOG

BOREHOLE NUMBER **PZ-58**

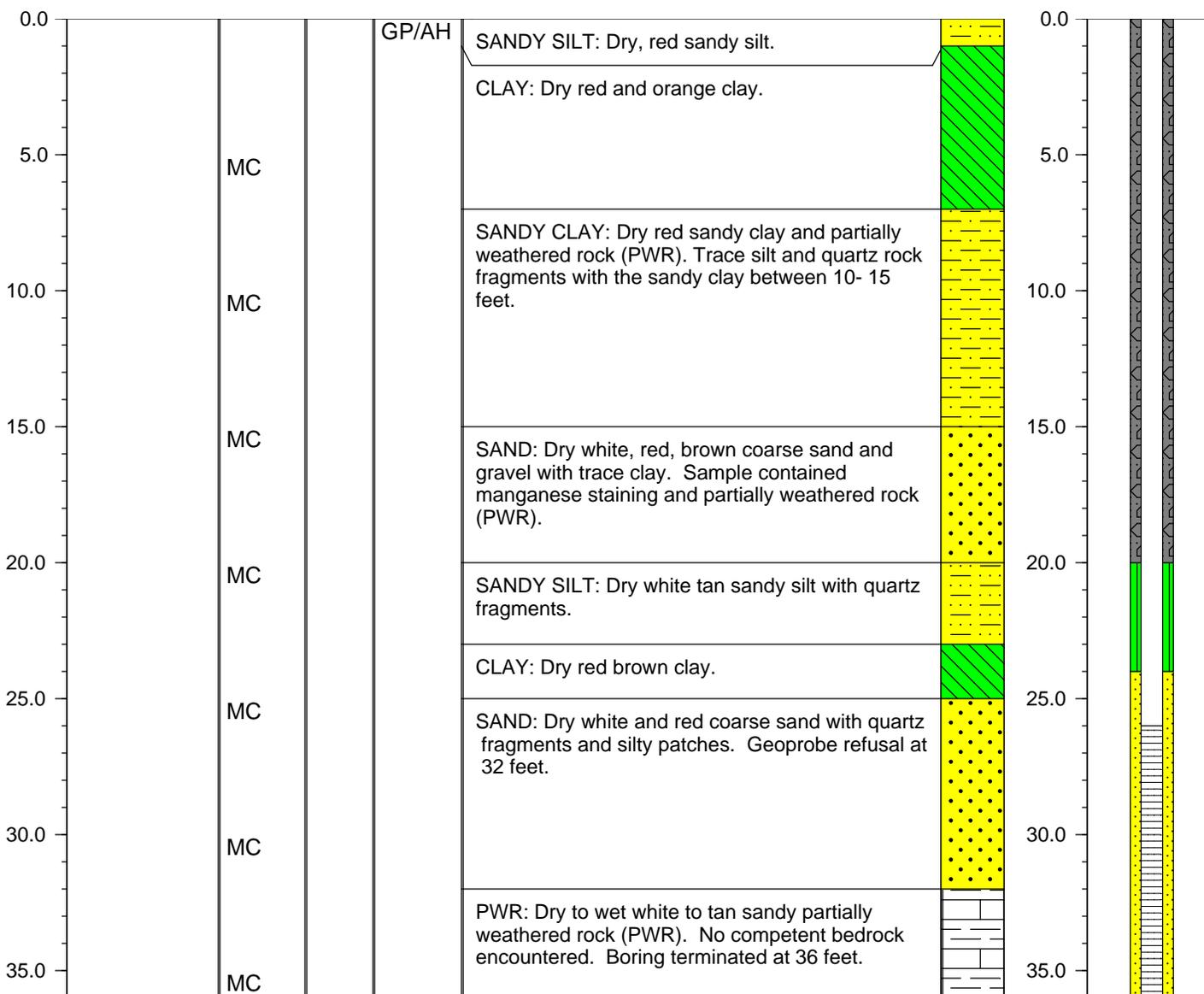
Page 1 of 1

PROJECT NAME: **Davidson Co Phase 2 Landfill**
 LOCATION: **Davidson County**
 DRILLING CO: **Geologic Explorations**
 DRILLING METHOD: **GP/AH**
 FIELD PARTY: **John Burr**
 GEOLOGIST: **Lindsay Quant**
 DATE BEGUN: **11/11/10** COMPLETED: **11/11/10**

TOTAL DEPTH: **36**
 TOP OF CASING ELEV.: **697.4** GROUND ELEV.: **695.16**
 NORTHING: **765715.824** EASTING: **1649546.003**

STATIC WATER LEVEL (BLS)		
Depth (ft)	25.85	
Time	4:35	
Date	11/15/10	

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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FIELD BOREHOLE LOG

BOREHOLE NUMBER **PZ-59**

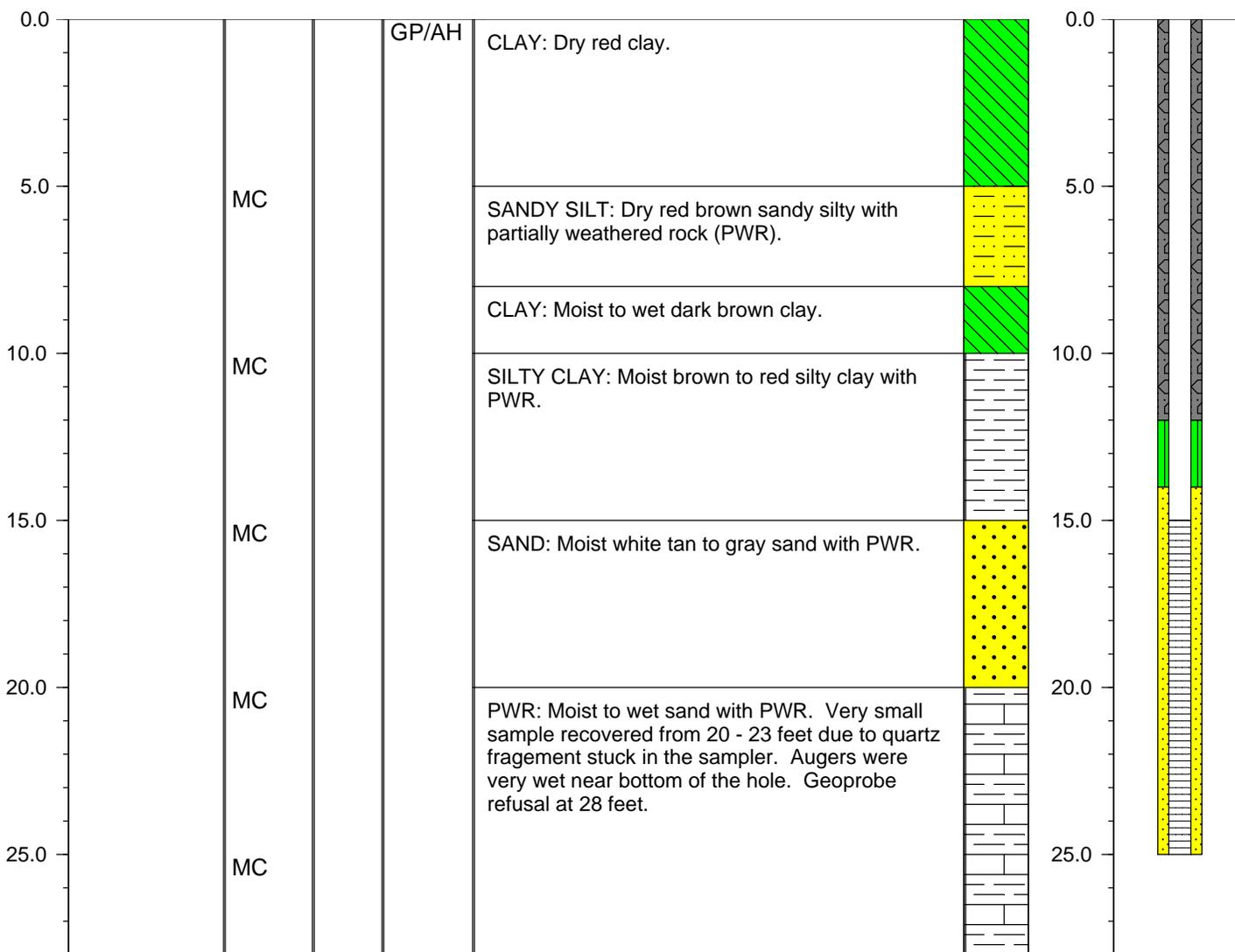
Page 1 of 1

PROJECT NAME: **Davidson Co Phase 2 Landfill**
 LOCATION: **Davidson County**
 DRILLING CO: **Geologic Explorations**
 DRILLING METHOD: **GP/AH**
 FIELD PARTY: **John Burr**
 GEOLOGIST: **Lindsay Quant**
 DATE BEGUN: **11/11/10** COMPLETED: **11/11/10**

TOTAL DEPTH: **25**
 TOP OF CASING ELEV. **691.34** GROUND ELEV.: **688.88**
 NORTHING: **765984.48** EASTING: **1649687.842**

STATIC WATER LEVEL (BLS)		
Depth (ft)	19.32	
Time	4:45	
Date	11/15/10	

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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FIELD BOREHOLE LOG

BOREHOLE NUMBER **PZ-62**

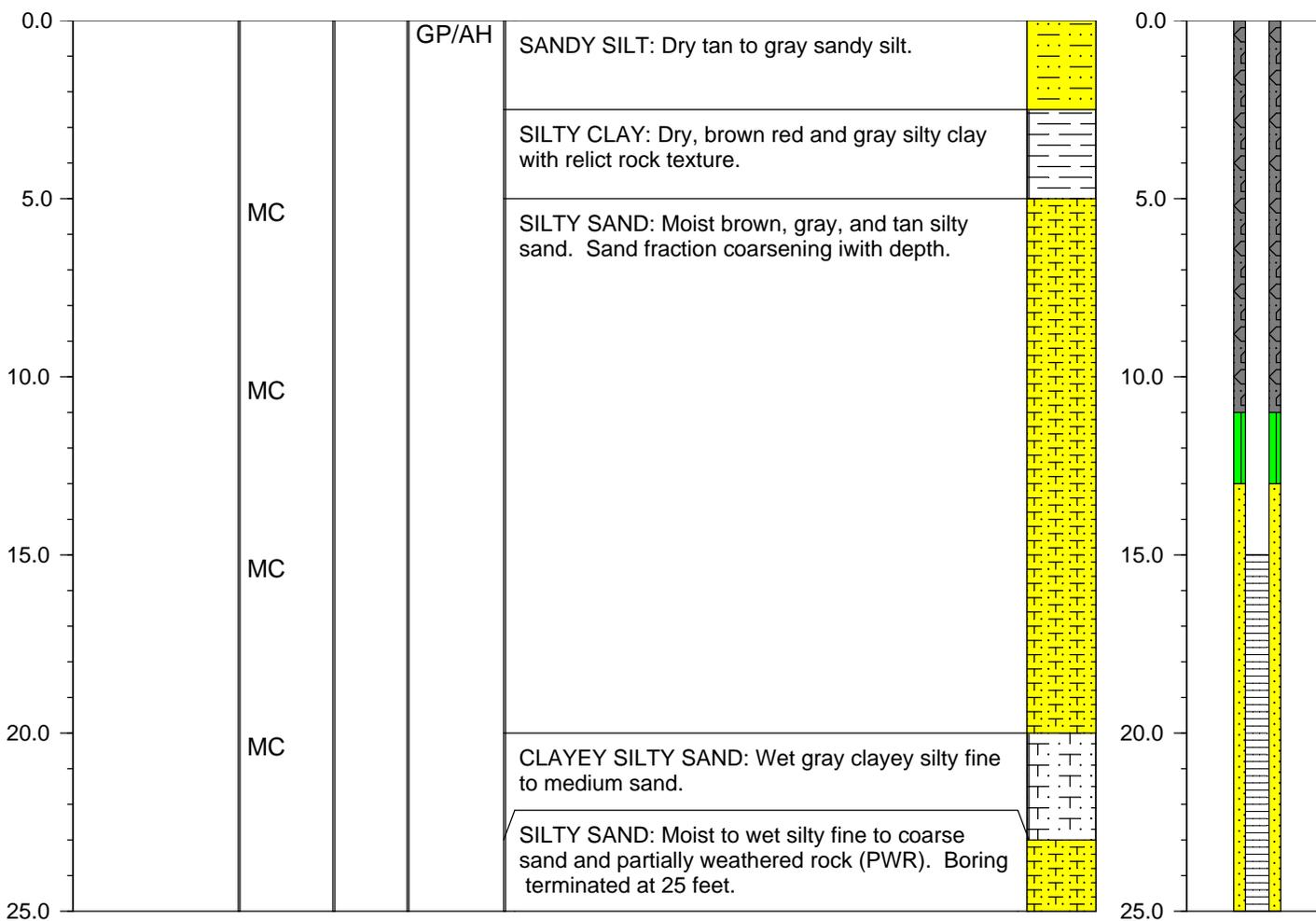
Page 1 of 1

PROJECT NAME: **Davidson Co Phase 2 Landfill**
 LOCATION: **Davidson County**
 DRILLING CO: **Geologic Explorations**
 DRILLING METHOD: **GP/AH**
 FIELD PARTY: **John Burr**
 GEOLOGIST: **Lindsay Quant**
 DATE BEGUN: **11/15/10** COMPLETED: **11/15/10**

TOTAL DEPTH: **25**
 TOP OF CASING ELEV.: **679.56** GROUND ELEV.: **676.76**
 NORTHING: **766153.985** EASTING: **1649462.167**

STATIC WATER LEVEL (BLS)		
Depth (ft)	16.37	
Time	1:40 pm	
Date	12/22/10	

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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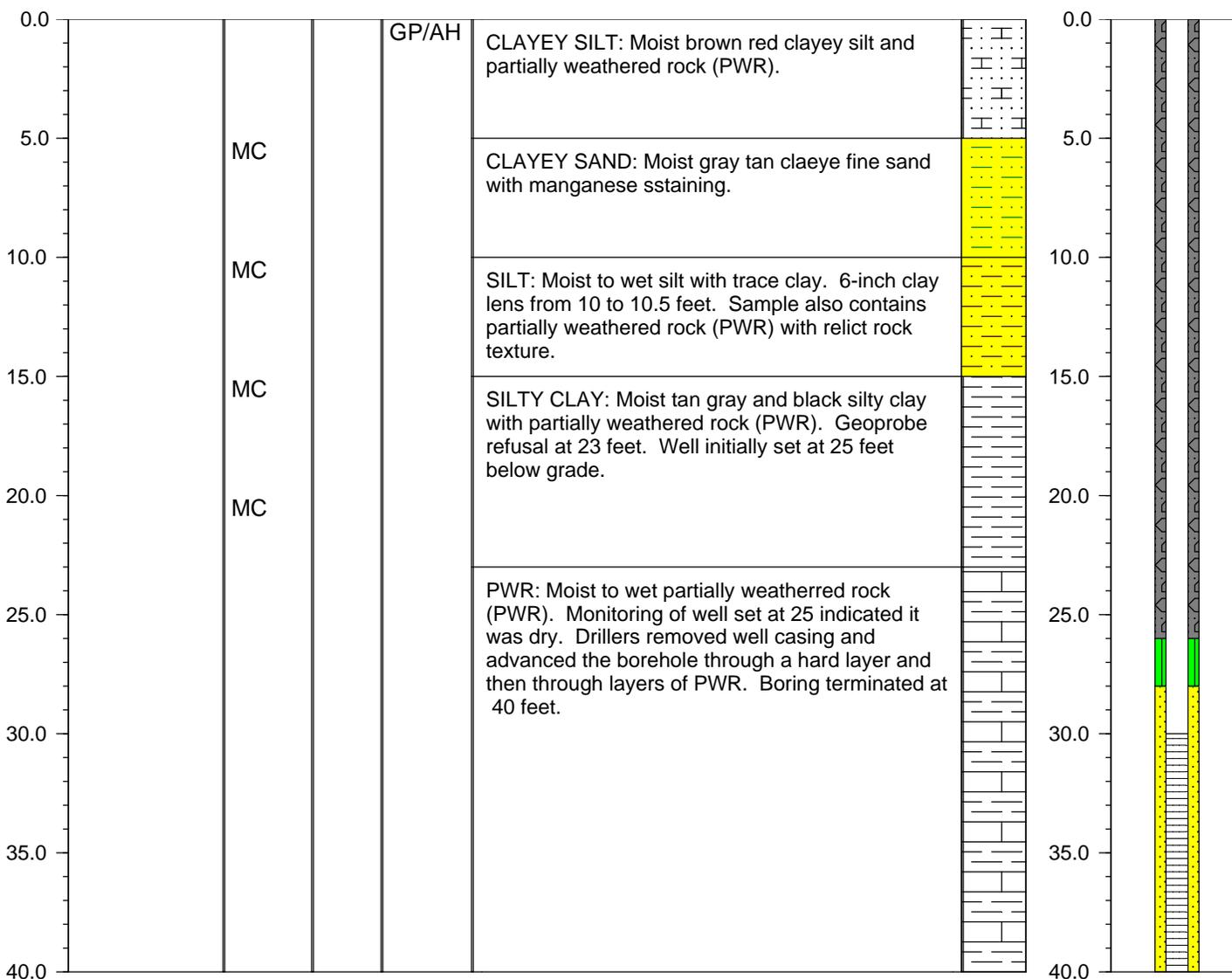


PROJECT NAME: **Davidson Co Phase 2 Landfill**
LOCATION: **Davidson County**
DRILLING CO: **Geologic Explorations**
DRILLING METHOD: **GP/AH**
FIELD PARTY: **John Burr**
GEOLOGIST: **Lindsay Quant**
DATE BEGUN: **11/11/10** COMPLETED: **11/23/10**

TOTAL DEPTH: **40**
TOP OF CASING ELEV. **700.05** GROUND ELEV.: **697.20**
NORTHING: **766442.808** EASTING: **1649546.08**

STATIC WATER LEVEL (BLS)		
Depth (ft)	36.05	
Time	2:00	
Date	12/22/10	

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
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WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN

Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A

NC Well Contractor Certification Number

HPC LAND SERVICES

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-4-13

5a. Well location:

DAVIDSON CO. LANDELL

Facility/Owner Name

Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27340

Physical Address, City, and Zip

DAVIDSON

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P2355

6b. Total well depth: 17 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 7 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned:

For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

0 BAGS PORTLAND GYH BAG
5# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL CASING THRU 4 1/4 HSA, INSERTED TREMIE TO BOTTOM OF BOREHOLE AND GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:

JASON CAIN
Signature of Certified Well Contractor or Well Owner

11-16-13
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NC AC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN

Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A

NC Well Contractor Certification Number

HPC LAND SERVICES

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variances, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-5-13

5a. Well location:

DAVIDSON CO. LANDELL

Facility/Owner Name

Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27386

Physical Address, City, and Zip

DAVIDSON

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P259

6b. Total well depth: 70 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 10 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

7 BAGS PORTLAND 94# BAG
5# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL
CASING THRU 4 1/4 HSA, INSERTED
TREMIE TO BOTTOM OF BOREHOLE AND
GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:

JASON CAIN 11-16-13
Signature of Certified Well Contractor or Well Owner Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C.0100 or 2C.0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN
Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A
NC Well Contractor Certification Number

HPC LAND SERVICES
Company Name

2. Well Construction Permit #: _____
List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-6-13

5a. Well location:
DAVIDSON CO. LANDELL
Facility/Owner Name Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27386
Physical Address, City, and Zip

DAVIDSON
County Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)
_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P2 62

6b. Total well depth: 23 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 13 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

<input checked="" type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Chips or Pellets
<input type="checkbox"/> Sand Cement Grout	<input type="checkbox"/> Dry Clay
<input type="checkbox"/> Concrete Grout	<input type="checkbox"/> Drill Cuttings
<input type="checkbox"/> Specialty Grout	<input type="checkbox"/> Gravel
<input checked="" type="checkbox"/> Bentonite Slurry	<input type="checkbox"/> Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:
8 BAGS PORTLAND 94# BAGS
7# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:
OVER DRILLED WELL & REMOVED WELL CASING THRU 4 1/4 HSA, INSERTED TREMIE TO BOTTOM OF BOREHOLE AND GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:
JASON CAIN 11-16-13
Signature of Certified Well Contractor or Well Owner Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN

Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A

NC Well Contractor Certification Number

HPC LAND SERVICES

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variances, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-4-13

5a. Well location:

DAVIDSON CO. LANDELL

Facility/Owner Name

Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27386

Physical Address, City, and Zip

DAVIDSON

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P2 12

6b. Total well depth: 24 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 14 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

8 BAGS PORTLAND 94# BAG

7# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL CASING THRU 4 1/4 HSA, INSERTED TREMIE TO BOTTOM OF BOREHOLE AND GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:

Jason Cain
Signature of Certified Well Contractor or Well Owner

11-16-13
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN

Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A

NC Well Contractor Certification Number

HPC LAND SERVICES

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-6-13

5a. Well location:

DAVIDSON CO. LANDELL

Facility/Owner Name

Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27386

Physical Address, City, and Zip

DAVIDSON

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P2 58

6b. Total well depth: 32 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 22 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

11 BAGS PORTLAND 94# BAGS

10# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL CASING THRU 4 1/4 HSA, INSERTED TREMIE TO BOTTOM OF BOREHOLE AND GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:

Jason Cain
Signature of Certified Well Contractor or Well Owner

11-16-13
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C.0100 or 2C.0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN

Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A

NC Well Contractor Certification Number

HPC LAND SERVICES

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-5-13

5a. Well location:

DAVIDSON CO. LANDELL

Facility/Owner Name

Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27386

Physical Address, City, and Zip

DAVIDSON

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELLS BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P263

6b. Total well depth: 34 40 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 31 30 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

14 BAGS PORTLAND 94# BAGS

15 # QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL CASING THRU 4'4 HSA, INSERTED TREMIE TO BOTTOM OF BOREHOLE AND GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:

JASON CAIN
Signature of Certified Well Contractor or Well Owner

11-16-13
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN
 Well Contractor Name (or well owner personally abandoning well on his/her property)
3112-A
 NC Well Contractor Certification Number
HPC LAND SERVICES
 Company Name

2. Well Construction Permit #: _____
 List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Safety Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7e)

4. Date well(s) abandoned: 11-5-13

5a. Well location:

DAVIDSON CO. LANDELL
 Facility/Owner Name Facility ID# (if applicable)
1242 OLD HWY 29, THOMASVILLE NC 27386
 Physical Address, City, and Zip
DAVIDSON
 County Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
 (if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P212D

6b. Total well depth: 42 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 32 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 10 (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
 For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7e) |

7f. For each material selected above, provide amount of materials used:

14 BAGS PORTLAND 94# BAGS
15# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL
CASING THRU 4 1/4 HSA, INSERTED
TREMIE TO BOTTOM OF BOREHOLE AND
GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:

JASON CAIN 11-16-13
 Signature of Certified Well Contractor or Well Owner Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
 1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
 1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

JASON CAIN
 Well Contractor Name (or well owner personally abandoning well on his/her property)

3112-A
 NC Well Contractor Certification Number

HPC LAND SERVICES
 Company Name

2. Well Construction Permit #: _____
 List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 11-5-13

5a. Well location:
DAVIDSON CO. LANDELL
 Facility/Owner Name Facility ID# (if applicable)

1242 OLD HWY 29, THOMASVILLE NC 27386
 Physical Address, City, and Zip

DAVIDSON
 County Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
 (if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: P2 35 D

6b. Total well depth: 63 (ft.)

6c. Borehole diameter: 6 (in.) REAMED TO 8"

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
 For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- Neat Cement Grout
- Sand Cement Grout
- Concrete Grout
- Specialty Grout
- Bentonite Slurry
- Bentonite Chips or Pellets
- Dry Clay
- Drill Cuttings
- Gravel
- Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

22 BAGS PORTLAND 94# BAGS
30# QUIK-GEL (BENTONITE)

7g. Provide a brief description of the abandonment procedure:

OVER DRILLED WELL & REMOVED WELL CASING THRU 4 1/4 HSA, INSERTED TREMIE TO BOTTOM OF BOREHOLE AND GROUTED, REMOVING AUGERS AS HOLE FILLED

8. Certification:
JASON CAIN 11-16-13
 Signature of Certified Well Contractor or Well Owner Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
 You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
 1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
 1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

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