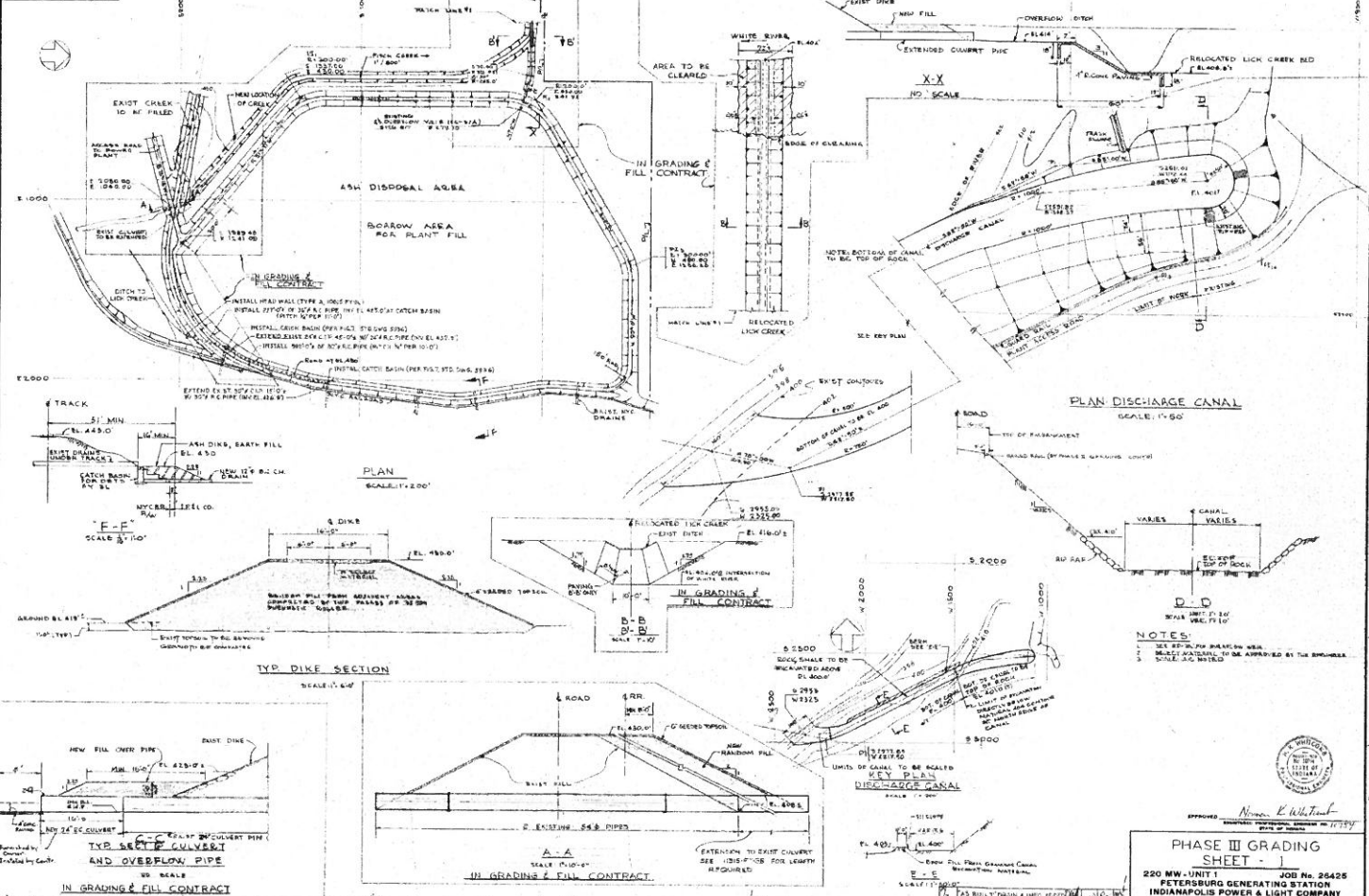


10815-FY-6A



NOTES:
 1. SET REPAIR PLAN FOR AREA
 2. MAKE MATERIAL TO BE APPROVED BY THE ENGINEER
 3. SCALE 1/2"=10'

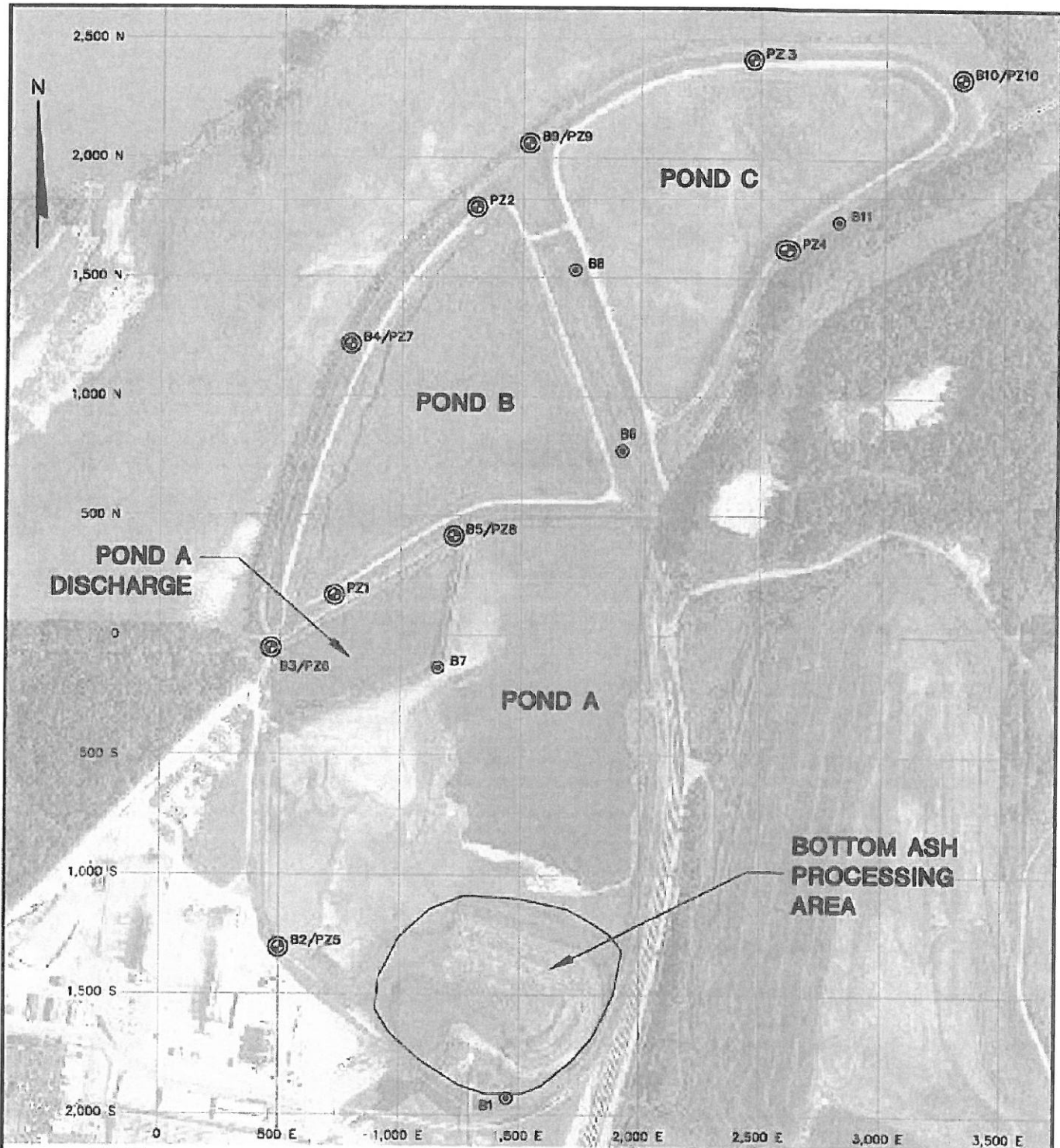


APPROVED: *Norman E. Whitcomb*
 REGISTERED PROFESSIONAL ENGINEER No. 11787
PHASE III GRADING SHEET - 1
 JOB No. 26425
PETERSBURG GENERATING STATION
INDIANAPOLIS POWER & LIGHT COMPANY
STONE & WEBSTER ENGINEERING CORPORATION
 BOSTON, MASS.
 10815-FY-6A
 I.P.S. & Co. DWG. No. *088-016-Y-D-40R*

| NO. | DATE | DESCRIPTION |
|-----|-------------|-----------------------------|
| 1 | 10815-FY-6A | PHASE III GRADING SHEET - 1 |
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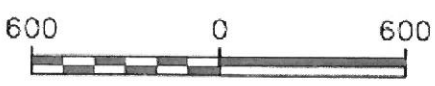


ATTACHMENT B
SOIL BORING LOGS¹



LEGEND


- ⊙ SOIL BORING
- ⊕ PIEZOMETER



SCALE: 1" = 600'

NOTES:

1. NOT FOR CONSTRUCTION OR OTHER SUCH END USES.
2. ON-SITE COORDINATE SYSTEM DEVELOPED FROM IPL DRAWING "PETERSBURG GENERATING PLANT ASH POND: LOCATION OF PIEZOMETERS AND BORINGS" DATED NOV 17, 2011.

| | | | |
|---|---|--|---|
|  INDIANAPOLIS POWER & LIGHT COMPANY | SITE PETERSBURG GENERATING STATION 6925 N STATE ROAD 57 PETERSBURG, INDIANA | SOIL BORING AND WELL LOCATION MAP | |
| | | PROJECT NO. 25211429.53 DRAWN: 02/09/11 REVISED: 1/18/12 | DRAWN BY: KG/KP CHECKED BY: KG APPROVED BY: DH 04/06/12 |

APPENDIX B

Boring Logs, Abandonment, and Well Construction Forms

| Facility/Project Name IPL - Petersburg | | SCS # 25211429.53 | | License/Permit/Monitoring Number | | Boring Number B1 | | | | | | |
|--|---------------------|----------------------|---------------|---|--|--|--------------|--------------|----------------------|------------------|------|------------------|
| Boring Drilled By (Firm name and name of crew chief) American Drilling Services Jeremy Wallace | | | | Drilling Started 09/13/2011 | | Drilling Completed 09/13/2011 | | | | | | |
| Facility Well No. | | Unique Well No. | | Common Well Name | | Static Water Level Feet | | | | | | |
| | | | | | | Surface Elevation 440.73 Feet | | | | | | |
| Boring Location State Plane | | N, E | | Lat. Long. | | Local Grid Location (If applicable) | | | | | | |
| NE 1/4 of SE 1/4 of Section 12, T. 1 N., R. 8 E. | | | | | | -1930 N 1449 E | | | | | | |
| County Pike County, Indiana | | | | Location Code | | Civil Town/City/or Village Petersburg | | | | | | |
| Sample Number | Length Recovered | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
| | | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S1 | 15 | 02-04 06-09 | | POORLY GRADED SAND with SILT, 10YR 6/6, massive, fine-grained, some roots, twigs, trace coarse sand (fill). SILTY SAND, 45Y 2.5/1, massive, sand is fine to coarse, coarse sand is coal fragments, trace fine gravel (coal fragments) (ash). | | | | | - | MD | | |
| S2 | 20 | 05-06 05-05 | 5 | SILT, 2.5Y 3/2, massive, trace clay and very fine sand (ash). | | | | | 1.5 | WM | | wet @ ~5' |
| S3 | 24 | WOH/ 24 | 10 | Same as above. | | | | | 0 | W | | |
| S4 | 11 | 03-03 03-03 | | SILTY SAND, 2.5Y 2.5/1, massive, sand is fine to coarse coal fragments, angular (ash). | | | | | - | W | | |
| I hereby certify that the information on this form is true and correct to the best of my knowledge. | | | | | | | | | | | | |
| Signature <i>Meghan Dickoff</i> | | | | | Firm SCS BT Squared Meghan Dickoff | | | | | | | |

SCS BT Squared

Boring Number B1

| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|------------------|-------------|---------------|--|------|-------------|--------------|--------------|----------------------|------------------|------|------------------|
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S5 | 20 | 17-23 | | SILTY SAND, 2.5Y 2.5/1, massive, sand is fine to coarse coal fragments, angular, trace fine gravel-sized coal fragments (ash). | | | | | 1.5 | w | | |
| | | 17-09 | | SILT with SAND, 2.5Y 2.5/1, massive, sand is fine to coarse, little fine gravel, sand and gravel are coal fragments (ash). | | | | | | | | |
| S6 | 16 | 11-03 | 20 | SILTY SAND, 2.5Y 2.5/1, massive, sand is fine to coarse coal fragments, little fine gravel sized coal fragments (ash). | | | | | <0.5 | w | | |
| | | 08-08 | | | | | | | | | | |
| S7 | 24 | 03-00 | 25 | SILT with SAND, 2.5Y 2.5/2, massive (ash). | | | | | 0 | w | | |
| | | 03-06 | | SILT with SAND, 2.5Y 2.5/2, 1mm to 5mm varves at 24.5' to 25', massive below varves, trace fine to coarse sand (ash). | | | | | | | | |
| S8 | 16 | 01-02 | | 2" SILTY SAND, 2.5Y 2.5/2, massive, sand is fine to coarse coal fragments (ash). | | | | | 0.5 | w | | |
| | | 02-03 | 30 | LEAN CLAY, mottled, 10YR 4/6, 5Y 5/1, 5Y 5/4, moderate plasticity, soft, trace fine to medium sand, some silt. | | | | | 1.0 | w | | |
| S9 | 24 | WOH/ 24 | | LEAN CLAY, 5Y 3.5/1, massive, trace fine sand, very soft, moderate plasticity, some silt. | | | | | 0 | w | | |

SCS BT Squared

Boring Number B1

| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|---------------------|----------------------------|---------------|---|------|-------------|--------------|--------------|-------------------------|---------------------|------|------------------|
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S10 | 24 | 00-00 02-02 | | LEAN CLAY, 5Y 3.5/1, massive, trace fine sand, very soft, moderate plasticity, some silt, trace plant matter (sticks, roots). | | | | 1.0 | w | | | |
| S11 | 24 | WOH- WOH- WOH- 02 | 40 | LEAN CLAY, 5Y 3/2, massive, moderate plasticity, very soft, some silt. | | | | 0.5 | w | | | |
| S12 | 24 | WOH- WOH- 01-02 | 45 | Same as above, trace white clay areas, 1mm to 1cm across, some round, some flat "plates". | | | | 0.5 | w | | | |
| S13 | 24 | 00-00 00-01 | 50 | Same as above, only small (1mm) white zones. | | | | 0.5 | w | | | |
| S14 | 24 | 00-00 00-02 | | Same as above, 5Y 3/1.5. | | | | 0.5 | w | | | |

SCS BT Squared

Boring Number B1

| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|------------------|----------------|---------------|---|------|-------------|--------------|--------------|----------------------|------------------|---------------------|------------------|
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S15 | 9 | 1/24 | | POORLY GRADED SAND with SILT and GRAVEL, 5Y 4/1, sand is fine to coarse, gravel is fine, subrounded to well rounded, mixed lithology, fining upwards. | CL | | | | | | heaving sand at 56' | |
| | | | | SP | | | | | | | | |
| S16 | 13 | 02-09 09-09 | | SILTY SAND with GRAVEL, 5Y 4/1, some clay, large (~3") piece of wood at 60.5', 4mm white band at 61.5'. | | | | | | | | |
| | | | | End of boring @ 62'; Abandoned with bentonite grout. | | | | | | | | |

SCS BT Squared
Civil & Environmental Engineering

SOIL BORING LOG INFORMATION

10-92

| | | | | | |
|--|-----------------|----------------------|----------------------------------|---|------------------------------|
| Facility/Project Name IPL - Petersburg | | SCS # 25211429.53 | License/Permit/Monitoring Number | | Boring Number B1A |
| Boring Drilled By (Firm name and name of crew chief) American Drilling Services Jeremy Wallace | | | Drilling Started 09/13/2011 | Drilling Completed 09/13/2011 | Drilling Method HSA |
| Facility Well No. | Unique Well No. | Common Well Name | Static Water Level Feet | Surface Elevation Feet | Borehole Diam. 6.5 inches |
| Boring Location State Plane NE 1/4 of NE 1/4 of Section 12, T. 1 N., R. 8 E. | | | Lat. Long. | Local Grid Location (If applicable) 3' from B1 | |
| County Pike County, Indiana | | | Location Code | Civil Town/City/or Village Petersburg | |

| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|---------------------|-------------|---------------|---|------|-------------|--------------|--------------|-------------------------|---------------------|------|------------------|
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| | | | 5 | Blind drill. See boring log for B-1 for geology. | | | | | | | | |
| | | | 10 | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Meghan Duff*

Firm **SCS BT Squared**

| | | | | | |
|--|-----------------|----------------------|----------------------------------|---|------------------------------|
| Facility/Project Name IPL - Petersburg | | SCS # 25211429.53 | License/Permit/Monitoring Number | | Boring Number B-2 / PZ-5 |
| Boring Drilled By (Firm name and name of crew chief) American Drilling Services Jeremy Wallace | | | Drilling Started 09/12/2011 | Drilling Completed 09/12/2011 | Drilling Method HSA |
| Facility Well No. | Unique Well No. | Common Well Name | Static Water Level Feet | Surface Elevation 440.69 Feet | Borehole Diam. 8.5 Inches |
| Boring Location State Plane NW 1/4 of SE 1/4 of Section 12, T. 1 N., R. 8 W. | | | Lat. Long. | Local Grid Location (If applicable) -1303 N 498 E | |
| County Pike County, Indiana | | Location Code | Civil Town/City/or Village | | |

| Sample Number | Length Recovered | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Soil Properties | | | | RQD/ Comments | |
|---------------|------------------|------------------|---------------|--|------|-------------|--------------|-----------------|----------------------|------------------|------|------------------|--|
| | | | | | | | | Max. PID/FID | Standard Penetration | Moisture Content | P200 | | |
| S1 | 18 | 07-12 12-12 | | 1" SILT, black with some gravel (coal fragments) (topsoil). | | | | | | | | | |
| | | | | SILTY SAND, 10YR 5/6, massive, sand is fine to medium (fill). | | | | | | | | | |
| | | | | CLAY with SAND, 10YR 5/6, massive, sand is fine to medium, trace roots (fill). | | | | | | | | | |
| | | | | SILTY SAND, 10YR 5/6, massive, sand is fine to medium, some fine gravel, gravel is angular coal fragments (fill). | | | | | | | | | |
| S2 | 20 | 04-08 11-16 | 5 | CLAY with SAND, 10YR 3.5/4, massive, sand is fine to medium, moderate plasticity, little fine gravel, gravel is angular coal fragments (fill). | | | | | | | | | |
| | | | | SILTY SAND with CLAY, 10YR 2/2, massive, fine to coarse sand sized ash fragments (ash). | | | | | | | | | |
| S3 | 18 | 08-10 40-50/4 | 10 | 4" SILTY SAND with CLAY, 2.5Y 4/4, fine to medium sand (fill). | | | | | | | | | |
| | | | | SILTY SAND with CLAY, 10YR 2/2, massive, fine to coarse sand sized ash fragments (ash). | | | | | | | | | |
| S4 | 22 | 19-23 28-40 | | CLAYEY SAND, mottled, 2.5Y 4/3 and 10YR 4/4, sand is fine to medium, trace coarse sand, fine gravel sized coal fragments. | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | |
|------------------------------------|---------------------------------------|
| Signature <i>Meghan Dickoff</i> | Firm SCS BT Squared Meghan Dickoff |
|------------------------------------|---------------------------------------|

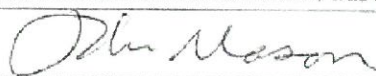
SCS BT Squared
Civil & Environmental Engineering

SOIL BORING LOG INFORMATION

10-92

| Facility/Project Name IPL - Petersburg | | SCS # 25211429.53 | | License/Permit/Monitoring Number | | Boring Number B3 / P26 | | | | | | |
|--|------------------|----------------------|---------------|--|------|--|--------------|---|----------------------|------------------------------|------|------------------|
| Boring Drilled By (Firm name and name of crew chief) American Drilling Services Jeremy Wallace | | | | Drilling Started 09/08/2011 | | Drilling Completed 09/08/2011 | | Drilling Method 4 1/2" HSA | | | | |
| Facility Well No. | | Unique Well No. | | Common Well Name | | Static Water Level Feet | | Surface Elevation 440.68 Feet | | Borehole Diam. 8.5 Inches | | |
| Boring Location State Plane SE 1/4 of NE 1/4 of Section 12, T. 1 N., R. 8 W. | | | | N, E | | Lat. Long. | | Local Grid Location (If applicable) -55 N 461 E | | | | |
| County Pike County, Indiana | | | | Location Code | | Civil Town/City/or Village Petersburg | | | | | | |
| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S1 | 20 | 13-16 | 18-12 | SILTY GRAVEL with SAND (fill). | . | | | | | | | |
| | | | | SILT with gravel, 10YR 2/1, fine to coarse, pieces of coal, non-plastic (ash). | | | | | | | | |
| S2 | 23 | 02-03 | 03-04 | CLAY, 10YR 4/4, blocky texture (fill). | . | | | | 3.5 | M | | |
| | | | | CLAYEY SAND, 10YR 4/3, with clay layer at 8.5'. (fill). | | | | | | | | |
| S3 | 23 | 03-03 | 02-02 | CLAY, 10YR 4/3. | . | | | | 0.7-1.5 | M | | |
| | | | | | | | | | | | | |
| S4 | 24 | 04-06 | 09-09 | SILT, 7.5YR 4/6, low plasticity, massive. | . | | | | 3.5 | M | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| | |
|--|--------------------------------------|
| Signature  | Firm SCS BT Squared John Mason |
|--|--------------------------------------|

SCS BT Squared

Boring Number B3 / PZ6

| Sample | | | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|---------------------|----------------|---------------|--|------|-------------|--------------|--------------|-------------------------|---------------------|------|------------------|
| Number | Length Recovered | Blow Counts | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S5 | 21 | 03-04 07-08 | 18.5 - 20.5 | CLAY, 10YR 4/2, low plasticity, massive. | | | | | 1.5- 2.5 | M | | |
| S6 | 24 | 03-04 05-07 | 19.5 - 21.5 | As above (fill). | | | | | 1.5- 2.5 | M | | |
| S7 | 24 | 04-07 07-08 | 24.5 - 26.5 | CLAY, 10YR 4/3, trace pieces of roots and plant material, low plasticity, silty from 24.5' to 25'. | | | | | 1.5- 3.5 | M | | |
| S8 | 24 | 01-01 03-03 | 29.5 - 31.5 | CLAY, 7.5YR 4/6, silty fine to medium sand layer at 29.6'. | | | | | 0.5 | M | | |
| S9 | 20 | 02-03 06-07 | 32.5 - 34.5 | SILTY SAND, 10YR 4/3, massive. | | | | | | W | | |

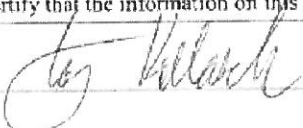
SCS BT Squared

Boring Number B3 / PZ6

10-92

Page 3

| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|---------------------|----------------|---------------|---|------|-------------|--------------|--------------|-------------------------|---------------------|------|--|
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S10 | 21 | 01-01 03-05 | | <p>POORLY GRADED SAND with SILT, 10YR 5/3, fine to medium, massive.</p> <p>End of boring @ 40'.</p> | | | | | | | | <p>w</p> <p>sand filling bottom of augers (6')</p> |

| Facility/Project Name IPL - Petersburg | | SCS # 25211429.53 | | License/Permit/Monitoring Number | | Boring Number B5 / PZ8 | | | | | | |
|--|------------------|----------------------|---------------|--|------|--|--------------|--------------|----------------------|------------------|------|------------------|
| Boring Drilled By (Firm name and name of crew chief) American Drilling Services Jeremy Wallace | | | | Drilling Started 08/31/2011 | | Drilling Completed 08/31/2011 | | | | | | |
| Facility Well No. | | Unique Well No. | | Common Well Name | | Static Water Level Feet | | | | | | |
| | | | | | | Surface Elevation 441.15 Feet | | | | | | |
| | | | | | | Borehole Diam. 8.5 Inches | | | | | | |
| Boring Location State Plane SW 1/4 of NE 1/4 of Section 17, T. 1 N., R. 8 W. | | | | Lat. Long. | | Local Grid Location (If applicable) 414 N 1220 E | | | | | | |
| County Pike County, Indiana | | | | Location Code | | Civil Town/City/or Village | | | | | | |
| Sample Number | Length Recovered | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
| | | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S1 | 24 | 10-32 | — | SILTY SAND, 7.5YR 6/2 (fill). SILT, 7.5YR 2.5/1 and 7.5YR 3/1 mixed (ash with positec). | | | | | 2.0- | M | | |
| | | 31-30 | | | | | | | 4.0 | | | |
| S2 | 18 | 15-12 11-17 | 5 | SILTY SAND, 7.5YR 4/4, grading to 7.5YR 3/2, fine to medium sand, very stiff, grading finer, dolomite gravel (2 pieces) (fill). | | | | | >4.5 | M | | |
| S3 | 24 | 05-07 11-13 | 10 | Same as above, with white gravel and shiny cinder flaky gravel (fill). | | | | | 3.0- 3.5 | M | | |
| S4 | 20 | 42-32 24-20 | | SAND with GRAVEL, 7.5YR 2.5/2, sand is fine to medium (cinder?) (fill). | | | | | 0.5- 1.0 | M | | |
| I hereby certify that the information on this form is true and correct to the best of my knowledge. | | | | | | | | | | | | |
| Signature  | | | | Firm SCS BT Squared Tony Kollasch | | | | | | | | |

SCS BT Squared

Boring Number B5 / PZ8

| Sample | | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | Max. PID/FID | Soil Properties | | | RQD/ Comments |
|--------|------------------|----------------|---------------|---|------|-------------|--------------|--------------|----------------------|------------------|------|------------------|
| Number | Length Recovered | | | | | | | | Standard Penetration | Moisture Content | P200 | |
| S5 | 24 | 00-03 05-05 | 15 | CLAY, 7.5YR 2.5/2. grading to 7.5YR 5/2, medium stiff to stiff. | | | | 1.0-4.0 | M | | | |
| S6 | 20 | 05-07 08-10 | 20 | CLAY, 7.5YR 3/2, medium stiff. | | | | 2.5-3.0 | M | | | |
| S7 | 24 | 02-04 04-05 | 25 | Same as above. | | | | 1.5-2.5 | M | | | |
| S8 | 24 | 01-01 02-02 | 30 | Same as above, 7.5YR 4/4. | | | | 0.5-1.0 | M+ | | | |
| S9 | 24 | 01-02 02-03 | 35 | SILTY SAND, 7.5YR 4/4, fine. | | | | | W | | | |

