

Appendix F
Confirmation Sediment Core Field Logs

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <i>SUNNY, breezy, 50°</i> | TOP OF BARGE TO WATER (FT): <i>2.5</i> |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <i>27.5</i> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Maitlofer</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <i>10-31-14</i> | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|---------------|--------|---|-------------------------|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| 0 | | | | <i>0.0-0.4 very dense light brown fine sand</i> | <i>SD-L04-D-0.0/0.4</i> |
| 1 | | | | <i>0.4-0.8 glacial till (very dense light brown silt sand w/ pea gravel & trace clay)</i> | <i>GT-L04-D-0.4/0.8</i> |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

*RUN
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NOTES: _____

STAFF GAUGE No. and ELEV: *11*
 STAFF GAUGE READING (FT): *1.8*
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: *45° 05' 53.869" N*
 Y-COORDINATE: *87° 36' 35.201" W*

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: *Sunny, very windy 45°* TOP OF BARGE TO WATER (FT): *2.5*
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): *29.5*
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: *Matt* SED THICKNESS TO REFUSAL (FT):
 DATE: *10-31-14* START: *10:00* END: *13:00*

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|---|--|-------------------------|--|--|
| | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | | | SAMPLE ID, QA/QC, ETC | |
| | | | | | |
| 0 | <input checked="" type="checkbox"/> | | | <i>0.0-3.2 - glacial till (light brown/tan fine dense clay & sand w/ small pea gravel throughout.)</i> | <i>0-0.5 GT-L05-A-0.0/0.5 ?</i> |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: *T1*
 STAFF GAUGE READING (FT): *1.7*
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X X-COORDINATE: *45° 05' 53.456 N*
X Y-COORDINATE: *87° 36' 36.111 W*



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
LS-A-2 SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 31

WEATHER: Sunny, calm, 35°

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 28.5

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER:

SED THICKNESS TO REFUSAL (FT):

DATE: 11-22-14

START: END:

| DEPTH BELOW SURFACE (FT) | | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VOC, ETC |
|--------------------------|--|---------------|--------|---|--|
| PENETRATION (FT) | | | | | |
| 0 | | | | 0-2.0 light brown dense/ firm not low-plasticity clay w/ fine dense sand seams. | SD-LS-A-0.0/0.5 -0.5/1.0 -1.0/1.5 -1.5/2.0 |
| 1 | | | | 2.0-4.0 glacial till | GT-LS-A-2.0/2.5 |
| 2 | | | | | Portion put surface interval for composite SD-LS-0.0/0.5 |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

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NOTES: _____

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION: _____
SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 53.188" N
Y-COORDINATE: 87° 36' 35.301" W

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <i>Sunny, Windy 45°</i> | TOP OF BARGE TO WATER (FT): <i>2.5</i> |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <i>18.0</i> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Mahoney</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <i>11-21-11</i> | START: <i>1030</i> END: <i>1330</i> |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|--------|---|---|
| | RECOVERY (FT) | | #/TYPE | | |
| | | | | | |
| 0 | | | | <i>0-38, light brown, very dense very fine sand. moist to dry.</i> | <i>SD-L05-B-0.0/0.5</i> <i>0.5/1.0</i> <i>1.0/1.5</i> <i>1.5/2.0</i> <i>2.0/2.5</i> <i>2.5/3.0</i> <i>3.0/3.5</i> <i>3.5/3.8</i> |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

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NOTES: _____

STAFF GAUGE No. and ELEV: *TI*

STAFF GAUGE READING (FT): *1.7*

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: *45°05'52.921 N*

Y-COORDINATE: *87°36'41.575 W*

| | |
|---|-------------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 0 |
| WEATHER: sunny, breezy, 50° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 25.5 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mathew | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-21-14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|------|---|---|
| | RECOVERY (FT) | | | |
| | # | TYPE | | |
| 0 | | | 0-1.0 light brown fine sand, dense, moist | SD-L05-C-0.0/0.5 |
| 1 | | | 1.0-4.3 light brown, layers of fine dense sand and low plasticity clay | 4.5/1.0 1.5/2.0 2.0/2.3 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.3 |
| 2 | | | 4.0/4.3 glacial till | GF → 4.0/4.3 |
| 3 | | | | Portioned off surface interval for SD-L05-0.0/0.5 |
| 4 | | | | |
| 5 | | | | |

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NOTES: _____

STAFF GAUGE No. and ELEV: T1 _____

STAFF GAUGE READING (FT): 1.7 _____

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 52.255" N

Y-COORDINATE: 87° 36' 35.684" W

| | |
|---|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <i>sunny, breezy 50°</i> | TOP OF BARGE TO WATER (FT): <i>2.5'</i> |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <i>17</i> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Matt...</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <i>10/21/14</i> | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | <i>0-0.5 light brown fine dense sand</i> | <i>SD-L5-D-0.0/0.5</i> <i>" 0.5/1.0</i> <i>1.0/1.5</i> <i>1.5/2.0</i> <i>2.0/2.7</i> <i>2.5/3.0</i> <i>3.0/3.7</i> <i>Portioned off surface interval for composite</i> <i>SD-L5-0.0/0.5</i> |
| 1 | | | <i>0.5-0.9 brown med-fine dense to firm sand</i> | |
| 2 | | | <i>0.9-2.7 light brown fine very dense sand</i> | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: *T4*
 STAFF GAUGE READING (FT): *3.7*
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: *45° 05' 52.197" N*
 Y-COORDINATE: *87° 36' 34.970 W*

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| | |
|---|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 30.5 |
| WEATHER: cloudy, light breeze, 55° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 28.0 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mark For | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/23/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|-------------------------|---|-----------------------|
| | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| 0 | | | 0-0.2 light brown very dense fine sand | |
| 1 | | | 0.2-0.3 glacial till (v.dense) | |
| | | | 0.3-0.5 pea gravel/coarse sand loose dense | |
| 2 | | | 0.5-4.0 glacial till (v.dense) | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: **T1**


STAFF GAUGE READING (FT): **1.6**

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: **45°05'51.423" N**

Y-COORDINATE: **87°36'38.599" W**

| | | | |
|---|-----------------------------------|--------------------|--------------|
|  | PROJECT NUMBER 650184.LP.06.CS | STATION ID L6-D | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

PROJECT : Tyco Fire Products LP
 WEATHER: cloudy, breezy, 50°
 CONTRACTOR: Coleman Engineering
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
 LOGGER: M. H. H. W.
 DATE: 10/23/11

TOP OF BARGE TO SED SURFACE (FT): 31.
 TOP OF BARGE TO WATER (FT): 2.5
 WATER DEPTH (FT): 29.5
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VQC, ETC |
|--------------------------|------------------|---------------|--------|--|------------------------------------|
| | | | #/TYPE | | |
| 0 | | | | 0-0.3 light brown, very dense, fine, sand | SD-L6-D-0.3/0.3 BT-L6-D-0.3/0.3 |
| 1 | | | | 0.3-4.8 glacial till, very dense, fine sand + clay w/ pea gravel throughout | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.6
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'51.087" N
 Y-COORDINATE: 87°36'38.393" W

SEDIMENT CORE LOG


| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 27.8 |
| WEATHER: <i>cloudy, windy, 38°</i> | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: <i>Colman Engineering</i> | WATER DEPTH (FT): |
| EQUIPMENT: <i>Geoprobe w macrocore sampler or hand core</i> | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Mark CV</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <i>10/14/14</i> | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | #TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|---------------|-------|---|---|
| | | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, OMOC, ETC |
| | | | | | | |
| 0 | | | | | 0-2.2 light brown fine dense sand, trace low plasticity clay | SO-L07-C-0.0/0.5 ↓ 2.5/1.0 1.0/1.5 1.5/2.0 Portioned off surface interval for composite SO-L07-0.0/0.5 & dup |
| 1 | | | | | | <i>archive</i> <i>mn</i> |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 15.19
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'51.375"N
 Y-COORDINATE: 87°36'36.386"W

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L07-D | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 30' 7" |
| WEATHER: | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11-4-11 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|--------|--|--------------------------------------|
| | RECOVERY (FT) | M/TYPE | | |
| | | | | |
| 0 | | | 0-4.8 glacial till light brown fine dense sand w/ grey low-plasticity clay & pea gravel thru out. | GT-L07-D-0.0/05 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 51.155" N

Y-COORDINATE: 87° 36' 36.912" W

| | | | |
|---|--|----------------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L07-E | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|---|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 34' 8" |
| WEATHER: | TOP OF BARGE TO WATER (FT): 25 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11-4-11 START: 11:54 END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | WTYPE | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|------------------|--|---------------|-------|--|-----------------------------------|
| | RECOVERY (FT) | | | | | |
| | | | | | | |
| 0 | | | | | 0-2.4 Glacial till (extremely dense fine sand & low plasticity of clay w/ pea gravel thru-out) | GT-L07-E-0.0/0.5 |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): **1.7**
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: **45° 05' 50.881" N**
 Y-COORDINATE: **87° 36' 37.660" W**

| | |
|--|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 18.7 |
| WEATHER: | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Moulton | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/5/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION <small>SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE</small> | COMMENTS <small>SAMPLE ID, QVOC, ETC</small> |
|--------------------------|------------------|--|--------|--|---|
| | RECOVERY (FT) | | #/TYPE | | |
| | | | | | |
| 0 | | | | 0-4.1 light brown fine dense sand, trace silt & trace clay | SD-LOG-A-0.0/0.5 ↳ 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 ↓ 3.5/4.0 |
| 1 | | | | | |
| 2 | | | | | Portion off surface interval for composite SD-LOG-0.0/0.5 + dup |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'50.789"N
 Y-COORDINATE: 87°36'35.681"W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
LOG-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 17.6

WEATHER: Cloudy, windy, 38°F

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Maikhofer

SED THICKNESS TO REFUSAL (FT):

DATE: 11/5/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) #/TYPE | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OAVOC, ETC |
|--------------------------|------------------|--|-------------------------|---|--|
| | RECOVERY (FT) | | | | |
| | | | | | |
| 0 | | | | 0-4.6 = light brown, very dense, fine sand | SD-LOG-B-00/0.5 |
| 1 | | | | | 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.6 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | 4.6 | | Portion off surface interval for composite SD-LOG-00/0.5 ! duplicate |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 50.648" N
 Y-COORDINATE: 87° 36' 31.980" W

| | |
|---|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 30.6 |
| WEATHER: | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Muhsfer</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/5/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VOC, ETC |
|--------------------------|------------------|--|------------|---|---|
| | RECOVERY (FT) | | R/TTYPE | | |
| | | | | | |
| 0 | | | | 0.0 - 2.9 = Light brown, very dense fine sand, with some clay from 0.8' - 1.3' | SD-108-C - 0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/2.9 |
| 1 | | | | | GT-108-C - 2.9/3.4 |
| 2 | | | | | |
| 3 | | | | | 2.9 - 3.6 = Glacial till (extremely dense & light brown, sandy clay, fine sands, pea gravel throughout) |
| 4 | | | 3.6 | | Portion off surface interval for composite SP-108 - 0.0/0.5 ↓ duplicate |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 50.401" N
 Y-COORDINATE: 87° 36' 36.613" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
108-P

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 29.3

WEATHER: Cloudy, windy, 38°F

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: M. Hoffer

SED THICKNESS TO REFUSAL (FT):

DATE: 11/5/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OAVOC, ETC |
|--------------------------|------------------|---------------|------|--|---|
| | RECOVERY (FT) | RECOVERY (FT) | | | |
| | | # | TYPE | | |
| 0 | | | | 0-0.2 = Light brown, firm, fine sand | SD-108-D-0.0/0.5 |
| | | | | 0.2-1.5 = Light brown, non plastic clay Soft to firm, with ^{SOME} fine sand | ↓ 0.5/1.0 1.0/1.5 |
| 1 | | | | 1.5-4.2 = Glacial Till (extremely dense, light brown, sandy clay, fine sands, pea gravel throughout) | GT-108-D-1.5/2.0 1.5/2.0 |
| 2 | | | | | |
| 3 | | | 4.2 | | Portion off surface Interval for composite SD-108-0.0/0.5 |
| 4 | | | | | ↓ ↓ Duplicate |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.4
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'50.003" N

Y-COORDINATE: 87°36'35.742" W

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 33.3
 WEATHER: cold windy 35° TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 30.8
 EQUIPMENT: Geoprobe w macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Machuter SED THICKNESS TO REFUSAL (FT):
 DATE: 11/10/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | W/TYPE | | |
| | | | | |
| 0 | | | 0-1.1 light brown firm fine sand, trace clay | SD-LOG-A-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 |
| 1 | | | 1.1-2.0 light brown firm to soft intermingly fine sand & soft non-pl clay | GT-LOG-A-2.0/2.5 Bottom of surface interval for composite. |
| 2 | | | 2.0-2.8 glacial till, dense | SD-LOG-0.0/0.5 ↓ deep |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: F1
 STAFF GAUGE READING (FT): 2.4
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'49.640"N
 Y-COORDINATE: 87°36'36.959"W

| | |
|--|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 33.2 |
| WEATHER: Wet, Windy 35° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe or macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. H. H. H. | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/6/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION <small>SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE</small> | COMMENTS <small>SAMPLE ID, OAVOC, ETC</small> |
|--------------------------|------------------|--------|--|--|--|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-1.0 soft brown/reddish light br sand, fine-med, some silt (brown & black), trace soft clay | SD-L09-B-0.0/0.5 SD-L09-B-0.5/1.0 GT-L09-B-1.0/1.5 |
| 1 | | | | 1.0-2.5 glacial till | Portion off surface interval for composite SD-L09-0.0/0.5 & dup |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 7.5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 2.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'49.310"N
 Y-COORDINATE: 87°36'35.641"W



PROJECT NUMBER
650184.LP.06.CS

STATION ID
LO9-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 32.5'
 WEATHER: cloudy, cold, windy 32° TOP OF BARGE TO WATER (FT): 2.5'
 CONTRACTOR: Colman Engineering WATER DEPTH (FT): 30.0'
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: M. Huber SED THICKNESS TO REFUSAL (FT):
 DATE: 11/6/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OVDG, ETC |
|--------------------------|------------------|--------|--|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.8 0.6 light brown + reddish soft/firm nonplastic clay w/ fine sand | SD-LO9-C-0.0/0.6 8'GT-LO9-C-0.6/1.1 |
| 1 | | | 0.6-4.9 glacial till | Portion off surface interval for composite. SD-LO9-C-0.0/0.5 or dup |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 2.4
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 48.739" N
 Y-COORDINATE: 87° 36' 36.642" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L09-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 27.7

WEATHER: cloudy with windy 32°

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 25.2

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Nashville

SED THICKNESS TO REFUSAL (FT):

DATE: 11/6/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, DMOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.3 dark brown soft silty fine sand, trace organics | SD-L09-D-0.0/0.3 " 0.5/1.0 1.0/1.5 |
| 1 | | | 0.3-1.4 light brown fine firm sand, trace silt, trace med-gr sand | ↓ 1.5/2.0 2.0/2.4 |
| 2 | | | 1.4-2.2 light brown fine sand & low-pl. clay, dense | Portion off sulfate interval for composite SD-L09-0.0/0.5 4 dup |
| 3 | | | 2.2-2.4 light brown firm/dense fine sand. | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 2.4
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'48.033" N
 Y-COORDINATE: 87°36'36.236" W

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 18.5 |
| WEATHER: Cloudy, windy, 38°F | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mainhofer | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/5/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QMDC, ETC |
|--------------------------|------------------|--------|--|---|---|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-4.2 = light brown, extremely dense, fine sand, poorly graded. | SD-L10-A-00/0.5 ↓ 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.2 |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | 4.2 | | | | |
| 4.2 | | 4.2 | | | |
| 5 | | | | | |
| 5 | | | | | |
| | | | | | Portion off surface interval for composite SD-L10-00/0.5 |

NOTES: _____

STAFF GAUGE No. and ELEV: 71
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 50.411" N
 Y-COORDINATE: 87° 36' 34.516" W

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L10-B | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 17.5 |
| WEATHER: Cloudy, windy, 38°F | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mainfor | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/5/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0.0 - 0.2 = Light brown, fine to medium sand, dense, poorly graded | SD-L10-B-0.0/0.5 |
| 1 | | | 2.2 - 3.8 = light brown, extremely dense fine sand | 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/3.8 |
| 2 | | | | ↓ |
| 3 | | | | |
| 4 | 3.8 | 3.8 | | Portion off surface interval for composite SD-L10-0.0/0.5 |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 7.4

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 50.019" N

Y-COORDINATE: 87° 36' 33.773" W



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L10-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 25.4

WEATHER: Cloudy, windy, 35°F

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mairhuter

SED THICKNESS TO REFUSAL (FT):

DATE: 11/5/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OMOC, ETC |
|--------------------------|------------------|-------|---|--|
| | RECOVERY (FT) | #TYPE | | |
| | | | | |
| 0 | | | 0.0-0.4 = Light brown, fine to medium sand, firm to dense | SD-L10-C-0.0/0.5 |
| 1 | | | 0.4-0.7 = Medium to coarse sand, dark brown, well graded, firm to dense. | -0.5/1.0 -1.0/1.5 -1.5/2.0 |
| | | | 0.7-1.0 = Same as 0-0.4 | -2.0/2.5 |
| 2 | | | 1.0-2.0 = Light brown, soft non-plastic clay with some fine sand | -2.5/3.0 -3.0/3.5 |
| | 3.5 | | 2.0-2.6 = Same as 0-0.4 | |
| 3 | | | 2.6-3.5 = Light brown, low to medium plasticity clay, soft to firm | Portion off surface interval for composite |
| | | 3.5 | | SD-L10-0.0/0.5 |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T-1
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION:
 SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49.664"N
 Y-COORDINATE: 87°36'34.558"W



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L10-C^m SHEET 1 OF 2

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 27.8
 WEATHER: cloudy, windy 38° TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 25.3
 EQUIPMENT: Geoprobe w/ macrocone sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Markster SED THICKNESS TO REFUSAL (FT):
 DATE: 11/8/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, OMOG, ETC |
|--------------------------|------------------|------|---------------|--|---|
| | TYPE | TYPE | | | |
| 0 | 3.5 | | | 3.5-4.7 light brown very dense fine sand w/ some dense clay | SD-L10-C-3.5/4.0 |
| 1 | | | | 4.7-6.7 light brown soft to firm low-pl clay w/ some fine sand thru-out | 4.0/4.5 4.5/5.0 5.0/5.5 5.5/6.0 6.0/6.7 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | 6.7 | | |
| 5 | 8.5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): d.d.
 WATER ELEVATION:
 SEDIMENT ELEVATION:

L10-C-2

X-COORDINATE: 45°05'49.575" N
 Y-COORDINATE: 87°36'34.436" W

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: cloudy, windy, 38° TOP OF BARGE TO WATER (FT):
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Mahrker SED THICKNESS TO REFUSAL (FT): 11.5
 DATE: 11/8/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, DMOC, ETC |
|--------------------------|------------------|--|---------------|--|----------------------------------|
| | TYPE | | | | |
| 0 | 7 | | | 7-11.3 glacial till (light reddish br. clay & fine sand & gravel, dense) | GT-L10-C-7/7.5 <i>deep</i> |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | 11.3 | | |
| | | | 11.5 | | |

NOTES: _____
 STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____
 X-COORDINATE: _____
 Y-COORDINATE: _____

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 29.0 |
| WEATHER: Cloudy, windy, 25°F | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. White | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/5/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) #TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|------------------------|---|--|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, OMOC, ETC |
| 0 | | | | 0-1.7 = Light brown, fine sand with some soft non-plastic clay, trace medium sand, firm | SD-L10-D - 0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 |
| 1 | | | | 1.7-4.6 = Light brown, intermingling layers of fine sand and low plasticity clays, soft | 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.6 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | 4.6 | | |
| 5 | | | 4.6 | | Portion off surface interval for composite SD-L10-0.0/0.5 |

NOTES: _____

STAFF GAUGE No. and ELEV: 71
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 49.364" N
 Y-COORDINATE: 87° 36' 34.171" W

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 30.6
 WEATHER: partly sunny, cold, breezy TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: *Markover* SED THICKNESS TO REFUSAL (FT):
 DATE: 11/7/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OMGC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | W/TYPE | | |
| | | | | |
| 0 | | | 0-0.8 light brown firm to dense fine sand, trace soft clay | SD-L11-A-0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/2.8 |
| 1 | | | 0.8-2.8 light brown non-plastic soft clay mixed w/ fine sand | GT-L11-A 2.8/3.4 |
| 2 | | | 2.8-3.4 glacial till, clay & fine sand w/ pebbles | Portion off surface interval for composite SD-L11-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 48.629" N
 Y-COORDINATE: 87° 36' 35.309" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L11-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 26.4

WEATHER: partly sunny, cold, breezy

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Colman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mark Hunter

SED THICKNESS TO REFUSAL (FT):

DATE: 11/7/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, OAVC, ETC |
|--------------------------|------------------|-------|--|--|
| | RECOVERY (FT) | WTYPE | | |
| | | | | |
| 0 | | | 0-0.7 light brown fine sand, soft to firm, wet | SD-L11-B-0.0/0.5 SP-L11-B-0.5/1.0 GT-L11-B-1.0/1.5 |
| 1 | | | 0.7-1.0 light brown fine sand, firm, some firm low-pl clay. | Portion out surface interval for composite SP-L11-0.0/0.5 |
| 2 | | | 1.0-4.2 glacial till, reddish light brown, very dense fine sand & clay, tiny pebbles throughout | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 4505'48.376"N
 Y-COORDINATE: 87°36'34.466"W

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 29.6
 WEATHER: partly sunny, cold, breezy TOP OF BARGE TO WATER (FT): 21.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 27.1
 EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: M. Mahoney SED THICKNESS TO REFUSAL (FT):
 DATE: 11/7/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, OAVOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | INTYPE | | |
| | | | | |
| 0 | | | 0-1.2 light brown/reddish brown fine dense sand, trace clay | SD-L11-C-0.0/0.5 SD-L11-C-0.5/1.2 hT-L11-C-1.2/1.7 |
| 1 | | | 1.2-3.8 glacial till, reddish light brown clay w/ fine sand & tiny pebbles throughout | Portion off surface interval for composite SD-L11-0.0/0.5 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: F1
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'47.912"N
 Y-COORDINATE: 87°36'35.495"W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L1-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 28.4

WEATHER: partly sunny, cold, breezy

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 25.9

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Markhor

SED THICKNESS TO REFUSAL (FT):

DATE: 11/7/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OMOC, ETC |
|--------------------------|------------------|--------|--|--|
| | RECOVERY (FT) | M/TYPE | | |
| | | | | |
| 0 | | | 0-0.4 light brown fine v. dense sand | SD-L11-D-0.0/0.5 |
| 1 | | | 0.4-4.8 light reddish brown fine sand intermingled w/ low-pl clay. Dense. | " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.8 |
| 3 | | | | Bottom off surface interval for composite SD-L11-0.0/0.5 |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'46.736" N

Y-COORDINATE: 87°36'35.135" W

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L12-A | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 20.2 |
| WEATHER: cloudy, windy, 38° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. Hester | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/8/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, DMOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| 0 | | | 0-4.0 light brown fine dense sand, trace firm clay (low pl) | SD-L12-A-0.0/0.5 ↓ dup |
| | | | | " 0.5/1.0 |
| | | | | 1.0/1.5 |
| | | | | 1.5/2.0 |
| | | | | 2.0/2.5 |
| | | | | 2.5/3.0 |
| | | | | 3.0/3.5 |
| | | | | 3.5/4.0 |
| | | | | 4.0/4.6 |
| | | | | Portioned off surface interval for composite SD-L12-0.0/0.5 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 2.2
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'49.446"W
 Y-COORDINATE: 87°36'33.292"W

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 17.2
 WEATHER: cloudy, windy, 38° TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: M. M. M. SED THICKNESS TO REFUSAL (FT):
 DATE: 11/8/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OMOG, ETC |
|--------------------------|------------------|-------|---|---|
| | RECOVERY (FT) | #TYPE | | |
| | | | | |
| 0 | | | 0-0.3 light brown fine firm sand. | SD-L12-B 0.0/0.5 0.5/1.0 1.0/1.5 |
| 1 | | | 0.3-1.1 light brown fine sand w/ fine pl clay, firm | 1.5/2.0 2.0/2.5 |
| 2 | | | 1.1-3.2 light brown firm fine-med sand, trace silt | 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.6 |
| 3 | | | 3.2-4.6 light br. extremely dense fine sand | Portoned off surface interval for composite SP-U2-0.0/0.5 |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 0.0
 WATER ELEVATION:
 SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 49.387" N
 Y-COORDINATE: 87° 36' 32.678" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L12-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 16.4

WEATHER: cloudy windy, 38°

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Maltwater

SED THICKNESS TO REFUSAL (FT):

DATE: 11/8/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QNOC, ETC |
|--------------------------|------------------|-------|--|--|
| | RECOVERY (FT) | #TYPE | | |
| | | | | |
| 0 | | | 0-1.0 Brown med-warse sand, wood pieces 0.8-1.0, firm | SD-L12-C-0.0/0.5 |
| 1 | | | 1.0-3.6 light brown fine dense dry sand | " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.6 |
| 2 | | | | Portion off surface interval for composite SD-L12-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 2.2
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'48.988"N

Y-COORDINATE: 87°36'32.938"W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L12-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Flip Products LP

TOP OF BARGE TO SED SURFACE (FT): 7'

WEATHER: cloudy, windy, 38"

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mankster

SED THICKNESS TO REFUSAL (FT):

DATE: 11/8/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|---------------|---------------|---|---|
| | RECOVERY (FT) | RECOVERY (FT) | | | |
| | | RECOVERY (FT) | RECOVERY (FT) | | |
| 0 | | | | 0 - 2.5 dark brown well-graded med-coarse sand, trace silt | SD-L12-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 |
| 1 | | | | 2.5-2.9 wood | ↓ Portion off surface intended for composite SD-L12-0.0/0.5 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: TI
 STAFF GAUGE READING (FT): 2.2
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 48.469" N

Y-COORDINATE: 87° 36' 32.087" W

need 8 ft

| | | | |
|--|-----------------------------------|---------------------|--------------|
| | PROJECT NUMBER 650184.LP.06.CS | STATION ID L13-A | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 21.4 |
| WEATHER: sunny, cold, clear 30° | TOP OF BARGE TO WATER (FT): 2.1 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 19.3 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. W. [unclear] | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/12/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|---------------|--|---|
| | 1st core | RECOVERY (FT) | | |
| | | WTYPE | | |
| 0 | 4 | | 0-7.1 fine dense sand, light brown, trace silt, trace clay | SD-L13-A-0.0/0.5 |
| 1 | | | 7.1-8.5 glacial till | " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/3.0 " 3.0/3.5 " 3.5/4.0 " 4.0/4.5 " 4.5/5.0 " 5.0/5.5 " 5.5/6.0 " 6.0/6.5 " 6.5/7.1 |
| 5 | 9 | | | GT-L13-d-7.1/7.6 Composite SD-L13-0.0/0.5 |

sd up
run, no report
archive

NOTES: _____

STAFF GAUGE No. and ELEV: 71
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 48.032" N
 Y-COORDINATE: 87° 31' 33.485



CH2MHILL

PROJECT NUMBER
050184LP.06.CS

STATION ID

L13-B

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 9.4

WEATHER: Snowy, Windy, 32°

TOP OF BARGE TO WATER (FT): 2.7

CONTRACTOR: Colman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mahuter

SED THICKNESS TO REFUSAL (FT):

DATE: 11/11/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QAC, ETC |
|--------------------------|------------------|------|---------------|--|--|
| | TYPE | TYPE | | | |
| 0 | | | | 0-0.7 coarse sandy silt, brown, soft trace organics | SD-L13-B-0.0/0.5 0.5/1.0 1.0/1.5 |
| 1 | | | | 0.7-2.6 brown med- coarse silty sand, some wood fragments soft firm | 1.5/2.0 2.0/2.6 Portion of surface interval for composite SD-L13-0.0/6.5 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES:

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.005"N

Y-COORDINATE: 87°36'32.425"W

Start @ 2.5' - 7.5'

| | | |
|--------------|-----------------|------------|
| | PROJECT NUMBER | STATION ID |
| | 650184.LP.06.CS | L13-B |
| SHEET 1 OF 1 | | |

PROJECT: Tyco Fire Products LP

WEATHER: sunny, cold, clear, 30°

CONTRACTOR: Colman Engineering

EQUIPMENT: Geoprobe of geoprobe sampler or hand core

LOGGER: Mark Hunter

DATE: 11/12/14

TOP OF BARGE TO SED SURFACE (FT): 8.0

TOP OF BARGE TO WATER (FT): 2.7

WATER DEPTH (FT): 5.3

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

START: _____ END: _____

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QLOG, ETC |
|--------------------------|------------------|-------|--|---|
| | RECOVERY (FT) | RYTPE | | |
| 2.5 | | | 2.5-5.5 med-coarse sand, firm, dark brown, some silt trace organics | SP-L13-B-2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.5 4.5/5.0 5.0/5.5 |
| 3.0 | | | | |
| 3.5 | | | | |
| 4.0 | | | | |
| 4.5 | | | | |
| 5.0 | | | | |
| 5.5 | 5.5 | | | |
| 7.5 | | | | |

+ dup }
sarcin

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: ~~45° 05' 47.122" N~~ 45° 05' 48.005" N

Y-COORDINATE: ~~87° 36' 31.130" W~~ 87° 36' 32.425" W

need 8 ft

| | | |
|---|----------------|------------|
|  | PROJECT NUMBER | STATION ID |
| | 050184.LP.0&CS | L13-C |

| | |
|---|--|
| PROJECT: Type Fin Products LP | TOP OF BARGE TO SED SURFACE (FT): 22.9 |
| WEATHER: sunny, cool, wind, 30° | TOP OF BARGE TO WATER (FT): 2.7 |
| CONTRACTOR: Calspan Engineering | WATER DEPTH (FT): 20.2 |
| EQUIPMENT: Gravity of microscope sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mark H. Hux | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/12/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SITTYPE | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS |
|--------------------------|------------------|-------|---------------|---------|---|------------------|
| | INITIAL | FINAL | | | | |
| 0.0 | 4 | | | | 0-3.5 light brown very dense fine sand | SD-L13-C-0.0/0.5 |
| 1 | | | | | 3.5-9.0 glacial till reddish light br. clay + sand, ex. dense, few tiny pebbles | " 0.5/1.0 |
| | | | | | | " 1.0/1.5 |
| | | | | | | " 1.5/2.0 |
| | | | | | | " 2.0/2.5 |
| | | | | | | " 2.5/3.0 |
| 2 | | | | | | 3.0/3.5 |
| | | | | | | GT-L13-C-3.5/4.0 |
| 3 | | | | | second core (4-9") liner shredded - all till, no phase photo | |
| 5 | 9 | | | | | |

run, no report

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'47.454"N

Y-COORDINATE: 87°36'33.981"W

PROJECT: Tyco Fire Products LP **TOP OF BARGE TO SED SURFACE (FT):** 18.1
WEATHER: cloudy, windy, 32° **TOP OF BARGE TO WATER (FT):** 2.7
CONTRACTOR: Colman Engineering **WATER DEPTH (FT):**
EQUIPMENT: Geoprobe w/ electronic sampler or hand core **TOP OF BARGE TO REFUSAL (FT):**
LOGGER: Marko Fer **SED THICKNESS TO REFUSAL (FT):**
DATE: 11/11/14 **START:** **END:**

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT TYPE | SEDIMENT DESCRIBE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS |
|--------------------------|------------------|----------|---------------|---------------|--|-------------------|
| | PROBE | RECOVERY | | | | |
| 0 | | | | | | |
| 0.5 | 3.5 | | | | 3.5-9.5 light brown very dense fine sand, trace clay | SD-L12-C 3.5/4.0 |
| 1 | | | | | | " 4.0/4.5 |
| 1.5 | | | | | | 4.5/5.0 |
| 2 | 6 | | | | 9.5-10.5 glacial till | 5.0/5.5 |
| 2.5 | | | | | | 5.5/6.0 |
| 3 | 8.5 | | | | | 6.0/6.5 |
| 3.5 | | | | | | 6.5/7.0 |
| 4 | | | | | | 7.0/7.5 |
| 4.5 | | | | | | 7.5/8.0 |
| 5 | | | | | | 8.0/8.5 |
| 5.5 | | | | | | 8.5/9.0 |
| 6 | | | | | | 9.0/9.5 |
| 6.5 | | | | | | GT-L12-C 9.5/10.0 |
| 7 | | | | | | 10.0/10.5 |
| 7.5 | | | | | | |
| 8 | | | | | | |
| 8.5 | | | | | | |
| 9 | | | | | | |
| 9.5 | | | | | | |
| 10 | | | | | | |
| 10.5 | | | | | | |
| 11 | | | | | | |
| 11.5 | | | | | | |
| 12 | | | | | | |
| 12.5 | | | | | | |
| 13 | | | | | | |
| 13.5 | | | | | | |
| 14 | | | | | | |
| 14.5 | | | | | | |
| 15 | | | | | | |
| 15.5 | | | | | | |
| 16 | | | | | | |
| 16.5 | | | | | | |
| 17 | | | | | | |
| 17.5 | | | | | | |
| 18 | | | | | | |
| 18.5 | | | | | | |
| 19 | | | | | | |
| 19.5 | | | | | | |
| 20 | | | | | | |

1st
 2nd
 run
 run, don't report

NOTES: _____
STAFF GAUGE No. and ELEV: 11
STAFF GAUGE READING (FT): 1.2
WATER ELEVATION: _____
SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'48.818
Y-COORDINATE: 87°36'32.976

PROJECT NUMBER
 650184.LP.06.CS

STATION ID
 L13-D

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP
 WEATHER: Snowy, windy, 32°
 CONTRACTOR: Caltrans Engineering
 EQUIPMENT: *Geoprobe w/* *30" diameter* *or head cone*
 LOGGER: Mark Holter
 DATE: 11/11/14
 TOP OF BARGE TO SED SURFACE (FT): 20.2
 TOP OF BARGE TO WATER (FT): 2.7
 WATER DEPTH (FT):
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):
 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) | RECOVERY TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|---------------|---------------|---|--|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | SAMPLE ID, QMDC, ETC |
| 0 | | | | 0-3.7 light brown dense to v. loose fine sand | SD-L13-D-0.0/0.5 |
| | | | | | " 0.5/1.0 |
| | | | | | 1.0/1.5 |
| | | | | | 1.5/2.0 |
| | | | | | 2.0/2.5 |
| | | | | | 2.5/3.0 |
| | | | | | 3.0/3.7 |
| | | | | | Portion of surface interval for composite SD-L13-0.0/0.5 |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.2
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'47.189" N
 Y-COORDINATE: 87°36'32.938" W

Start @ 3.5' - 8.5'

| | | |
|--------------|-----------------|------------|
| | PROJECT NUMBER | STATION ID |
| | 060184.LP.06.CS | L13-D |
| SHEET 1 OF 1 | | |

PROJECT: Tyco Fire Products LP
 WEATHER: Sunny, wind 10-15 mph
 CONTRACTOR: Columbia Engineering
 EQUIPMENT: Geoprobe / macroprobe sampler or hand core
 LOGGER: Mauhoter
 DATE: 11/12/14

TOP OF BARGE TO SED SURFACE (FT): 19.7
 TOP OF BARGE TO WATER (FT): 2.7
 WATER DEPTH (FT): 17.0
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):

START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT DESCRIPTION <small>SEDIMENT TYPE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE</small> | COMMENTS <small>SAMPLED, ANAL. ETC</small> |
|--------------------------|------------------|-------|---------------|---|---|
| | INITIAL | FINAL | | | |
| 3.5 | | | | 3.5-8.0 light brown extremely dense fine sand | SD-L13-D-3.5/4.0 |
| | | | | | 4.0/4.5 |
| | | | | | 4.5/5.0 |
| | | | | | 5.0/5.5 |
| | | | | | 5.5/6.0 |
| | | | | | 6.0/6.5 |
| | | | | | 6.5/7.0 |
| | | | | | 7.0/7.5 |
| | | | | 7.5/8.0 | |
| 8.5 | | | 8.0 | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.040" N
 Y-COORDINATE: 57° 36' 32.838" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L14-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 13.9

WEATHER: Cloudy, Windy, 33°

TOP OF BARGE TO WATER (FT): 2.7

CONTRACTOR: Colman Engineering

WATER DEPTH (FT): 11.0

EQUIPMENT: Geoprobe / macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mainster

SED THICKNESS TO REFUSAL (FT):

DATE: 11/10/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, ONOC, ETC |
|--------------------------|------------------|-------|--|--|
| | RECOVERY (FT) | WTYPE | | |
| | | | | |
| 0 | | | 0-1.2 brown med-coarse sand, some silt, firm | SD-L14-A-0.0/0.5 |
| 1 | | | 1.2-4.0 light brown fine dense sand | 0.5/1.0 6.0/1.5 1.5/2.0 d.0/2.5 2.5/3.6 3.0/3.5 3.5/4.0 |
| 2 | | | | Portion of Portion of surface interval for composite SD-L14-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.3
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'47.463"N
 Y-COORDINATE: 87°36'32.420"W

Start @ 4.0' - 9.0'

| | | |
|---|-----------------|------------|
|  | PROJECT NUMBER | STATION ID |
| | 050184.LP.06.CS | L14-A |

| | |
|--|---------------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 9.9 |
| WEATHER: <i>windy, cold, clear</i> | TOP OF BARGE TO WATER (FT): 2.9 |
| CONTRACTOR: <i>Cassidy Engineering</i> | WATER DEPTH (FT): 7.9 |
| EQUIPMENT: <i>Geoprobe w/ automatic sampler or hand core</i> | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Manhattan</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/2/11 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) | RECOVERY TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|---------------|---------------|---|----------------------|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | SAMPLE ID, ONOC, ETC |
| 4.0 | | | | 0-2.0 | SD-L14-A-4.0/4.5 |
| | | | | 4.0-6.0 brown med to coarse sand, trace silt, firm | " 4.5/5.0 |
| 1 | | | | | 5.0/5.5 |
| | | | | 6.0-7.6 light brown fine dense sand | 5.5/6.0 |
| 2 | | | | | 6.0/6.5 |
| | | | | | 6.5/7.0 |
| 3 | | | | | 7.0/7.6 |
| 4 | | | | | |
| 5 | | | | | |

archival (do not report)

NOTES: _____

STAFF GAUGE No. and ELEV: 1

STAFF GAUGE READING (FT): 1

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.564" N

Y-COORDINATE: 87° 36' 32.264" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L14-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 13.3
 WEATHER: snowy windy 32° TOP OF BARGE TO WATER (FT): 2.7
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Wahler SED THICKNESS TO REFUSAL (FT):
 DATE: 11/11/14 START: END:


| DEPTH BELOW SURFACE (FT) | | | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|---------------|---|--|
| | PENETRATION (FT) | RECOVERY (FT) | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QAVOC, ETC |
| | | #/TYPE | | |
| 0 | | | 0-2.1.8 brown fine to coarse sand, well graded, firm, trace silt | SD-L14-B-0.0/0.5 ^{2dup} |
| 1 | | | 1.8-4.4 light brown, fine sand, trace silt, dense | 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.4 |
| 2 | | | | Portioned off surface interval for composite SD-L14-2.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and Elev: T1
 STAFF GAUGE READING (FT): 1.2
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05' 47.031
 Y-COORDINATE: 87°36' 32.318

Start @ 4.5' - 9.5'

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  | PROJECT NUMBER 050184.LP.06.CS | STATION ID L14-B | SHEET 1 OF 1 |
| | [REDACTED] | | |

PROJECT: Tyco Fire Products LP
 WEATHER: Sunny, windy, clear
 CONTRACTOR: Caltrans Engineering
 EQUIPMENT: Geoprobe w/ microprobe sampler or hand core
 Logger: M. Schott
 DATE: 11/12/14

TOP OF BARGE TO SED SURFACE (FT): 14.1
 TOP OF BARGE TO WATER (FT): 2.7
 WATER DEPTH (FT): 11.4
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):

START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT TYPE | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS |
|--------------------------|------------------|---|---------------|---------------|---|------------------|
| | 1 | 2 | | | | |
| 4.5 | | | | | 4.5-9.2 light brown ex. dense fine sand, trace clay | SB-L14-B-4.5/5.0 |
| | | | | | | 5.0/5.5 |
| | | | | | | 5.5/6.0 |
| 1 | | | | | | 6.0/6.5 |
| | | | | | | 6.5/7.0 |
| | | | | | | 7.0/7.5 |
| 2 | | | | | | 7.5/8.0 |
| | | | | | | 8.0/8.5 |
| | | | | | 8.5/9.2 | |
| 9.5 | | | | | | |

archive do not report

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.7
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.058" N
 Y-COORDINATE: 87° 36' 32.342" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L14-C

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 8.2

WEATHER: Smoky, Windy, 32°

TOP OF BARGE TO WATER (FT): 2.7

CONTRACTOR: Columbia Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mark Hutter

SED THICKNESS TO REFUSAL (FT):

DATE: 11/11/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, ONCG, ETC |
|--------------------------|------------------|-------|--|---|
| | RECOVERY (FT) | WTYPE | | |
| | | | | |
| 0 | | | 0-1.4 dark brown silty med-gr sands, firm, trace organics | SD-L14-C-0.0/0.5 0.5/1.0 1.0/1.4 Portion off surface interval for composite SD-L14-0.0/0.5 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES:

first push no recovery
second push no recovery
move a couple ft over,
small rec.

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READINGS (FT): 1.2

WATER ELEVATION:

SEDIMENT ELEVATION:

X-COORDINATE:

45°05'46.875

Y-COORDINATE:

87°36'31.2766

Start @ 1.5' - 6.5'

| | | |
|--------------|-----------------|------------|
| | PROJECT NUMBER | STATION ID |
| | 050184.LP.06.CS | L14-C |
| SHEET 1 OF 1 | | |

| | |
|--|---------------------------------------|
| PROJECT: Tyco Film Products LP | TOP OF BARGE TO SED SURFACE (FT): 8.5 |
| WEATHER: sunny, cold, clear | TOP OF BARGE TO WATER (FT): 2.7 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 8.5 |
| EQUIPMENT: Geoprobe of Geoprobe Systems or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>hachwater</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/12/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|-------|---|--|
| | SECURITY (FT) | DEPTH | | |
| 1.5 | | | 1.5-2.3 dark brown silty coarse sand | SD-L14-C-15/2.0 |
| 2.3 | | | 2.3-5.1 dark brown med-coarse sand, trace silt | 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 |
| 5.1 | | | 5.1-5.2 light br fine dense sand | 4.0/4.5 4.5/5.2 |

arrow do not rpt.

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.922" N

Y-COORDINATE: 89° 36' 31.324" W



PROJECT NUMBER
660184.LP.06.CS

STATION ID
L14-D

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 8.4

WEATHER: Smoggy windy, 32°

TOP OF BARGE TO WATER (FT): 2.7

CONTRACTOR: Colson Engineering

WATER DEPTH (FT):

EQUIPMENT: Casagrande or macrocone sampler or hand cone

TOP OF BARGE TO REFUSAL (FT):

LOGGER: M. M. M. M.

SED THICKNESS TO REFUSAL (FT):

DATE: 11/11/14

START:

END:


| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|---------------|---------------|--|--|
| | | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | SAMPLE ID, QUOC, ETC |
| 0 | | | | | 0.0 - 2.8 brown med-coarse sand, well graded, some little silt, trace organics | SD-L14-D-0.0/0.5 |
| 1 | | | | | 2.8 - 3.0 wood pieces | " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.8 " 2.8/3.0 |
| 2 | | | | | | partitioned off surface interval for composite SD-L14-0.0/0.5 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES:

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.2
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'46.477
 Y-COORDINATE: 87°36'30.662

start @ 3.0' - 8.0'

| | | |
|---|-----------------|------------|
|  | PROJECT NUMBER | STATION ID |
| | 050184.LP.06.CS | L14-D |

| | |
|--|---------------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 7.7 |
| WEATHER: sunny, cold, clear | TOP OF BARGE TO WATER (FT): 2.7 |
| CONTRACTOR: Colman Engineering | WATER DEPTH (FT): 4.9 5.0 |
| EQUIPMENT: Geoprobe / microcone sampler or hand cone | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. M. M. M. | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/12/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT TYPE | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS | SAMPLE ID, ONOC, ETC |
|--------------------------|------------------|--|---------------|---------------|---|----------|----------------------|
| | | | | | | | |
| 3.0 | | | | | 3-5.5 brown med-coarse sand, trace silt, firm | | SD-L14-D-3.0/3.5 |
| 1 | | | | | | | 3.5/4.0 |
| | | | | | | | 4.0/4.5 |
| | | | | | 5.5-6.6 light brown fine dense sand | | 4.5/5.0 |
| 2 | | | | | | | 5.0/5.5 |
| | | | | | | | 5.5/6.0 |
| | | | | | | | 6.0/6.6 |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 8.0 | | | | | | | |

archive do not report

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.4

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.442" N

Y-COORDINATE: 87° 36' 30.675" W

| | |
|--|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 6.5 |
| WEATHER: Sunny, 50 | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 4.0 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Markofer | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-14 START: END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | | | |
| | | #/TYPE | | |
| 0 | | | 0-0.6 silty fine-med sand, brown, soft | SP-L15-A-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 Portioned off surface interval for composite SP-L15-0.0/0.5 |
| 1 | | | 0.6-4.0 brown coarse to med sand, trace silt, | |
| 2 | | | 4.0-4.4 wood chunks (not sampled) | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: 71

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'48.506"N

Y-COORDINATE: 87°36'30.243"W

| | | | |
|--|--|----------------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L15-B | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 7.5 |
| WEATHER: SUNNY 50 | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 5.0 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: MaWhiter | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-11 START: END: | |

| DEPTH BELOW SURFACE (FT) | | PENETRATION (FT) | | RECOVERY (FT) #/TYPE | SEDIMENT DESCRIPTION TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|--|------------------|--|-------------------------|---|--|
| | | | | | | |
| 0 | | | | | 0-0 0-1.0 fine to med sand, brown, soft to firm trace silt + wood 1.0-4.0 fine to coarse sand, soft to firm, trace wood + silt | SD-L15-B-0.0/0.5 " 0.5/1.0 1.0/1.5 2.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 Portioned off surface interval for composite SD-L15-0.0/0.5 |
| 1 | | | | | | archive |
| 2 | | | | | | |
| 3 | | | | | | run |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: **T1**

STAFF GAUGE READING (FT): **1.8**

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: **45°05'48.476" N**

Y-COORDINATE: **87°36'28.971" W**

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 7 |
| WEATHER: sunny 50° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 4.5 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Machuta | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-14 START: END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|---------------|--------|---|--|
| | | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| | | | | | | |
| 0 | | | | | 0-4.5 fine to coarse sand, some silt and wood chips, firm, brown | SD-L15-C-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.5 |
| 1 | | | | | | archived |
| 2 | | | | | | |
| 3 | | | | | | Portioned off surface interval for composite SD-L15-0.0/0.5 |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'48.705" N

Y-COORDINATE: 87°36'27.917" W

L15-D

| | | | |
|--|--|----------------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L15-D | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|---|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 8.0' |
| WEATHER: sunny 50° | TOP OF BARGE TO WATER (FT): 2.5' |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 5.5' |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Ma. Niter | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVQC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-3.5 Brown well graded sand w/ 10% silt + trace wood chips, firm | SD-L15-D-0.0/0.5 ↓ 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: **T1**

STAFF GAUGE READING (FT): **1.8**

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: **45° 05' 48.203" N**

Y-COORDINATE: **87° 36' 28.167" W**

| | |
|--|---|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): <u>8'</u> |
| WEATHER: | TOP OF BARGE TO WATER (FT): <u>2.5'</u> |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>5.5'</u> |
| EQUIPMENT: Geoprobe w/ <u>macrocore</u> sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Manhater</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/23/14</u> | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION | COMMENTS | | |
|--------------------------|------------------|--------|--|---|---|-----------------------|
| | RECOVERY (FT) | #/TYPE | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| | | | | | | |
| 0 | | | 0-4.0 brown fine-coarse sand, trace silt, trace wood. firm | SD-L16-A-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 Partitioned off surface interval for composite SD-L16-0.0/0.5 | | |
| 1 | | | | | archive | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.5

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.805" N

Y-COORDINATE: 87° 36' 29.246" W

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L16-B | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 9.0 ft |
| WEATHER: | TOP OF BARGE TO WATER (FT): 2.5 ft |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 6.5 ft |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Markster | SED THICKNESS TO REFUSAL (FT): |
| DATE: 01/23/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-2.2 brown fine to med sand, some silt, trace wood (wood at bottom of core) | SD-L16-B-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 Portimed off surface interval for composite SD-L16-0.0/0.5 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive
down

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.5

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.428" N

Y-COORDINATE: 87° 36' 28.419" W



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L10-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
 WEATHER: _____
 CONTRACTOR: Coleman Engineering
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
 LOGGER: *Mark*
 DATE: *10/23/14* START: _____ END: _____

TOP OF BARGE TO SED SURFACE (FT): *7*
 TOP OF BARGE TO WATER (FT): *2.5*
 WATER DEPTH (FT): *6.5*
 TOP OF BARGE TO REFUSAL (FT): _____
 SED THICKNESS TO REFUSAL (FT): _____

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | | | |
| | | #/TYPE | | |
| 0 | | | <i>0-3.4 brown fine-coarse well graded sand, trace silt, trace wood, trace organics, soft-firm</i> | <i>SD-L10-C-0.0/0.5</i> <i>" 0.5/1.0</i> <i>1.0/1.5</i> <i>1.5/2.0</i> <i>2.0/2.5</i> <i>2.5/3.0</i> <i>3.0/3.4</i> |
| 1 | | | | <i>archive</i> <i>↓</i> <i>Portioned off surface interval for composite</i> <i>SD-L10-0.0/6.5</i> |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: *T1*
 STAFF GAUGE READING (FT): *1.5*
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: *45°05'46.898" N*
 Y-COORDINATE: *87°36'29.441" W*



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
U6-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 7.5 ft

WEATHER:

TOP OF BARGE TO WATER (FT): 2.5 ft

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 5.0 ft

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mauliter

SED THICKNESS TO REFUSAL (FT):

DATE: 10/23/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|--|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-0.6 fine sandy silt w/ 50% organics, soft, dark brown | SD-U6-0-0.0/0.5 " 0.5/1.0 1.0/1.5 |
| 1 | | | | 0.6-3.2 well graded fine- coarse sand, trace silt, trace organics, soft, brown | 1.5/2.0 2.0/2.5 2.5/3.2 ↓ Portion off composite surface interval SD-U6-0.0/0.5 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.5
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.644" N
 Y-COORDINATE: 87° 36' 29.804" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L17-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 7

WEATHER: Sunny 50

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 4.5

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mahoney

SED THICKNESS TO REFUSAL (FT):

DATE: 10-22-14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VQC, ETC |
|--------------------------|------------------|--------|--|-----------------------------------|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-3.9 Brown med-coarse sand, well graded, some wood chips throughout, trace silt | SD-L17-A-00/0.5 |
| | | | | " 6.5/1.0 |
| | | | | 1.0/1.5 |
| 1 | | | | 1.5/2.0 |
| | | | | 2.0/2.5 |
| | | | | 2.5/3.0 |
| 2 | | | | 3.0/3.5 |
| | | | 3.5/3.9 | |
| | | | Portion of surface interval for composite | SD-L17-D.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive
min

NOTES: _____

STAFF GAUGE No. and ELEV: 11
STAFF GAUGE READING (FT): 1.8
WATER ELEVATION: _____
SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'48.498"N
Y-COORDINATE: 87°36'27.070"W

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 7 |
| WEATHER: SUNNY, SD | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 4.5 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mahofey | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-14 START: END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.7 sandy silt, soft, wood chips, brown | SD-L17-B-0.0/0.5 |
| 1 | | | 0.7-1.0 silty med-sand, soft, wood chips brown | " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.7 |
| 2 | | | 1.0-3.7 brown well graded sand, trace silt, firm | Partion off surface interval for composite SD-L17-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 48.195" N

Y-COORDINATE: 87° 36' 26.377" W

| | |
|--|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): <u>8'</u> |
| WEATHER: <u>sunny 50°</u> | TOP OF BARGE TO WATER (FT): <u>2.5</u> |
| CONTRACTOR: <u>Coleman Engineering</u> | WATER DEPTH (FT): <u>5.5</u> |
| EQUIPMENT: <u>Geoprobe w/ macrocore sampler or hand core</u> | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Mahlofer</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10-22-14</u> START: END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | | | |
| | | #/TYPE | | |
| 0 | | | 0-0.8 fine-med sand, brown, trace silt, firm | SD-L17-C-0.0/0.5 |
| 1 | | | 0.8-3.5 med-coarse well graded sand, some silt, trace wood, firm, brown | 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 |
| 2 | | | | Portion, off surface interval for composite SD-L17-2.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'47.951"N

Y-COORDINATE: 87°36'27.419"W

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 9.0 ft |
| WEATHER: Sunny 50° | TOP OF BARGE TO WATER (FT): 2.5 ft |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 6.5 ft |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mahtoff | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.5 brown fine-med well graded sand, trace silt, firm | SD-L17-D-0.0/0.5 |
| 1 | | | 0.5-4.0 brown fine-coarse well graded sand, trace wood, firm | 1) 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 |
| 2 | | | | <div style="text-align: center;">↓</div> Portion off surface interval for composite SD-L17-D-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.557" N

Y-COORDINATE: 87° 36' 26.914" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID: 118-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breezy 50°

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 7.5

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Maihoter

SED THICKNESS TO REFUSAL (FT):

DATE: 10-21-14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0.0-0.1 sandy dark brown silt, soft | SD-U18-A-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.2 Portioned off surface interval for composite SD-U18-0.0/0.5 archive run |
| 1 | | 0.1-2.2 dark brown med-coarse sand, trace silt, firm | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: core catcher pushed up into core @ surface
(second try, first core <1' recovery)

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 47.029" N
 Y-COORDINATE: 87° 36' 27.484" W

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L18-B | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|--|---------------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 9.0 |
| WEATHER: Sunny 45° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 6.5 |
| EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mainster | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-21-14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|--------|---|---------------------------------------|
| | RECOVERY (FT) | | | | |
| | | | #/TYPE | | |
| 0 | | | | 0.0-2.9 brown med-coarse sand, trace shells, firm SD-L18-B-0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/2.9 ↓ Portion off surface interval for composite SD-L18-0.0/0.5 | <i>archive</i> |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: core catcher push up into core @ surface
 (second try, first core <1' recovery)

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'46.775"N
 Y-COORDINATE: 87°36'26.987"W

| | |
|---|---|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 8.5 |
| WEATHER: sunny, 40° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 6.0 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mainwater | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-21-14 | START: END: 10/22/14 |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION | COMMENTS | | |
|--------------------------|------------------|--------|---|--|---|-----------------------|
| | RECOVERY (FT) | #/TYPE | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| | | | | | | |
| 0 | | | 0-0.5 dark brown silty med-grain sand, soft, some organics. | SD-L18-C-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 | | |
| 1 | | | 0.5-2.0 brown med-coarse sand, trace silt, firm | portion off surface interval for composite SD-L18-0.0/0.5 | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: 1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.562" N

Y-COORDINATE: 87° 36' 28.197" W



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L18-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
 WEATHER: SUNNY 40°
 CONTRACTOR: Coleman Engineering
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
 LOGGER: M. H. H. H.
 DATE: 10-21-14 START: END: 10/22/14

TOP OF BARGE TO SED SURFACE (FT): 7.5

TOP OF BARGE TO WATER (FT): 2.5

WATER DEPTH (FT): 5

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.5 brown silty med-coarse sand w/ wood pieces, soft to firm | SD-L18-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 |
| 1 | | | 0.5-2.0 brown med-coarse sand, trace silt, firm to loose | Portion off surface interval for composite SD-L18-0.0/0.5 SD-L18-0.0/0.5-D (dup) |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archival
run

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 45.845" N
 Y-COORDINATE: 87° 36' 27.393" W



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L19-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 8
 WEATHER: TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 5.5
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: SED THICKNESS TO REFUSAL (FT):
 DATE: 10-22-14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VQC, ETC |
|--------------------------|------------------|--------|--|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-3.2 dark brown med-coarse sand, some silt, firm-loose | SD-L19-A-0.0/0.5 |
| | | | | " 0.5/1.0 |
| | | | | 1.0/1.5 |
| | | | | 1.5/2.0 |
| | | | | 2.0/2.5 |
| | | | | 2.5/3.2 |
| 1 | | | | Partion off surface interval for composite |
| 2 | | | | SD-L19-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.630" N
 Y-COORDINATE: 87° 36' 25.968" W

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 7 |
| WEATHER: | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 4.5 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: | SED THICKNESS TO REFUSAL (FT): |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|---------------|--------|--|--|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| 0 | | | | 0-0.6 brown fine-med loose sand w/ 25% silt + some organics | SD-L19-B-0.0/0.5 |
| | | | | | " 0.5/1.0 |
| | | | | | 1.0/1.5 |
| 1 | | | | 0.6-3.2 fine brown med-coarse sand w/ trace silt, loose to firm | ↓ 1.5/2.0 |
| | | | | | 2.0/2.5 |
| | | | | | 2.5/3.2 |
| 2 | | | | | Portioned off surface interval for composite |
| | | | | | SD-L19-0.0/6.5 |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

} archive

} run

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): _____

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.094" N

Y-COORDINATE: 87° 36' 25.307" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L19C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 8.0

WEATHER: sunny, calm 40°

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 5.5

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mathew

SED THICKNESS TO REFUSAL (FT):

DATE: 10-22-14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-3.4 brown med-coarse sand, trace silt, firm to loose Silt layer (dark brown, soft) from 3.0-3.2 | SD-L19-C-0.0/0.5 |
| | | | | " 0.5/1.0 |
| | | | | 1.0/1.5 |
| 1 | | | | 1.5/2.0 |
| | | | | 2.0/2.5 |
| | | | | 2.5/3.0 |
| 2 | | | | 3.0/3.4 |
| | | | | Portion off surface interval for composite SD-L19-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive
run

NOTES: _____

STAFF GAUGE No. and ELEV: T1
STAFF GAUGE READING (FT): 1.5
WATER ELEVATION: _____
SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 45.84" N

Y-COORDINATE: 87° 36' 26.100" W

| | | | |
|---|--|----------------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L19-D | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|--|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 6.5 |
| WEATHER: sunny, calm 140° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 4.0 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mahler | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-22-14 START: | END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC | |
|--------------------------|------------------|--------|--|---|---|------------|
| | RECOVERY (FT) | #/TYPE | | | | |
| | | | | | | |
| 0 | | | | 0-4.0 fine to coarse brown silt sand w/ trace silt | SD-L19-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 | |
| 1 | | | | | <i>archive</i> | |
| 2 | | | | | | |
| 3 | | | | | <i>Portioned off surface interval for composite</i> SD-L19-D-0.0/0.5 | <i>run</i> |
| 4 | | | | | | |
| 5 | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: **T1**

STAFF GAUGE READING (FT): **1.5**

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: **45°05'45.369" N**

Y-COORDINATE: **87°36'25.292" W**



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L20-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
 WEATHER: Sunny, breezy, 40°
 CONTRACTOR: Coleman Engineering
 EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core
 LOGGER: Matt Rudy
 DATE: 11/5/14
 TOP OF BARGE TO SED SURFACE (FT): 25.3
 TOP OF BARGE TO WATER (FT): 2.5
 WATER DEPTH (FT):
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, OAVOC, ETC |
|--------------------------|------------------|--------|--|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-1.5 light brown moist fine firm sand, trace low-pl. clay | SD-L20-A-0.0/0.5 |
| 1 | | | 1.5-4.6 light brown clay, med plasticity soft to firm, density increasing w/ depth. Trace fine sand. | 1.0/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.6 |
| 2 | | | | |
| 3 | | | | Portion out surface interval for composite SD-L20-0.0/0.5 & dup. |
| 4 | | | | |
| 5 | | | | |

NOTES: low recovery on first try

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.474" N
 Y-COORDINATE: 87° 36' 35.525"

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 27.3
 WEATHER: Sunny, 40° TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Matt Wren SED THICKNESS TO REFUSAL (FT):
 DATE: 11/5/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | SEDIMENT DESCRIPTION | COMMENTS | | |
|--------------------------|------------------|---|---|---|---|---|-----------------------|
| | P | T | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, OAVOC, ETC |
| | | | | | | | |
| 0 | | | | 0-0.7 light br soft low plasticity clay, some fine sand | SD-L20-B-0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/3.0 " 3.0/3.5 " 3.5/4.0 ↓ Portion off surface interval for composite SD-L20-0.0/0.5 + deep | | |
| 1 | | | 0.7-1.7 light br fine dense sand, some clay | | | | |
| 2 | | | 1.7-2.6 light br firm to dense clay, some fine sand, med - low plasticity | | | | |
| 3 | | | 2.6-4.0 light br fine v. dense sand, some clay throughout | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 45.992" N
 Y-COORDINATE: 87° 36' 35.060"



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L20-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 25.1
 WEATHER: sunny, breezy 400 TOP OF BARGE TO WATER (FT): 5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: M. H. H. SED THICKNESS TO REFUSAL (FT):
 DATE: 11/4/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, OAVC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-1.5 mo light br fine sand, moist, firm, some clay | SD-L20-C-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.4 Go bottom off surface interval for composite SD-L20-C-0.0/0.5 ↓ dup |
| 1 | | | 1.5-2.0 light br clay w/ fine sand, dense | |
| 2 | | | 2.0-3.4 light br. fine sand, dense, trace clay | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 46.333" N
 Y-COORDINATE: 87° 36' 34.333" W

| | |
|---|---|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 24.4 |
| WEATHER: sun, breeze, 40[°] | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macropore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mahajan | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/5/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION | COMMENTS | | |
|--------------------------|------------------|--|---------------|--------|--|---|---|----------------------|
| | | | | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, OAVC, ETC |
| | | | | | | | | |
| 0 | | | | | 0-2.6 light brown fine firm to dense sand, trace clay | SD-L20-D-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.6 Portion off surface interval for composite SD-L20-0.0/0.5 ± dup | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): **1.9**
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: **45° 05' 46.474" N**
 Y-COORDINATE: **87° 36' 33.653" W**

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 21.5
 WEATHER: Cloudy, Windy, 35°F TOP OF BARGE TO WATER (FT): 2.5
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT):
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Muhler SED THICKNESS TO REFUSAL (FT):
 DATE: 11-4-11 START: 3:30 END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-3.2: light brown, very firm to very dense, fine sand, trace low plasticity clay | SD-L21-A-0.0/0.5 " " " 0.5/1.0 " " " 1.0/1.5 " " " 1.5/2.0 " " " 2.0/2.5 " " " 2.5/3.2 " " " 3.0/3.2 |
| 3.2 | | | | Partioned off surface interval for composite SD-L21-A-0.0/0.5 ↓ duplicate |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION:
 SEDIMENT ELEVATION:

X-COORDINATE: 45° 05' 46.043" N
 Y-COORDINATE: 87° 36' 32.824" W

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 10' - 1" |
| WEATHER: (16) Windy, 35°F | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. H. Cole | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/4/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|-------------------------|---|--|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, DMOC, ETC |
| 0 | | | | 0-1.7: Brown, well graded medium to coarse sand, some silt, dark brown silt lens @ 0.6', firm | SD-L21-B-0.0/0.5 |
| 1 | | | | | 0.5/1.0 |
| 2 | | | 3.2 | 1.7-3.2: Light brown, firm, fine to medium sand, trace silt. | 1.0/1.5 |
| 3 | | | 3.2 | | 1.5/2.0 |
| 4 | | | | | 2.0/2.5 |
| 5 | | | | | 2.5/3.2 |
| | | | | | portion off surface interval for composite |
| | | | | | SD-L21-0.0/0.5 |
| | | | | | ⋮ |
| | | | | | duplicate |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 45.67 40" N
 Y-COORDINATE: 87° 36' 31.730" W

| | | | |
|---|--|----------------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L21-C | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 16' 7" |
| WEATHER: Clear, windy 30F | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: M. Hoffer | SED THICKNESS TO REFUSAL (FT): |
| DATE: 11/4/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|-------|---|--|
| | RECOVERY (FT) | WTYPE | | |
| | | | | |
| 0 | | | 0-2.4: Light brown, firm to fine sand, trace silt | SD-L21-C-0.0/0.5 |
| 1 | | | | 0.5/1.0 |
| | | | | 1.0/1.5 |
| 2 | | | | 1.5/2.0 |
| | | | | 2.0/2.5 |
| 3 | | 2.4 | | 2.5/2.9 |
| | | | | Portion off surface interval for composite |
| 4 | | | | SD-L21-0.0/0.5 |
| | | | | ⋮ |
| | | | | Duplicate |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.8
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 44.230" N
 Y-COORDINATE: 87° 36' 33.586" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L21-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): 10' 3"

WEATHER: Cloudy, windy, 35°F TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):

LOGGER: Munkler SED THICKNESS TO REFUSAL (FT):

DATE: 11/4/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | M/TYPE | | |
| | | | | |
| 0 | | | 0-0.3 = Brown, well graded, firm medium to coarse, trace silt | SD-L21-D - 0.0/0.5 |
| 1 | | | 1.3-2.4 = Light brown, well graded firm, fine to medium sand, trace silt. | 0.5/1.0 1.0/1.5 |
| 2 | | | 2.3-3.6 = Same as above; more fines, woody organic matter from 2.7-2.8' | 1.5/2.0 2.0/2.5 |
| 3 | | | | 2.5/3.0 |
| 4 | | 3.6 | | 3.0/3.0 |
| 5 | | | | Portion off surface interval for composite SD-L21-0.0/0.5 ! Duplicate |

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 1.8

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 45.420" N

Y-COORDINATE: 87° 36' 30.778" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L22-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 1.1

WEATHER: sunny light breeze 50°

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 8.5

EQUIPMENT: Geoprobe w macrocote sampler of hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mal/wfor

SED THICKNESS TO REFUSAL (FT):

DATE: 10/28/14

START: 1010 END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/V/C, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-2.4 dark brown/black very soft & loose fine sandy silt w/ trace organics + wood | SD-L22-A 0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.6 Portion off surface interval for composite SD-L22-0.0/0.5 |
| 1 | | | 2.4-2.6 brown fine-med firm sand, some silt. | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X X-COORDINATE: 45°05'44.797"N
 Y-COORDINATE: 87°36'31.671"W

| | |
|---|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 15.3 |
| WEATHER: Sunny, clear 53° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 12.8 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Madhoter | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/28/14 | START: 1030 END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|-------------------------|---|---|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| | | | | | |
| 0 | | | | 0.0-1.6 Brown med-coarse sand, firm, trace silt (silt base at 0.9') 1.6-3.4 light brown fine dense/firm sand | SD-L22-B-0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/3.0 " 3.0/3.4 ↓ Portion off surface interval for composite SD-L22-0.0/0.5 |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: **T1**
STAFF GAUGE READING (FT): _____
WATER ELEVATION: _____
SEDIMENT ELEVATION: _____

X-COORDINATE: **45°05'44.542" N**
Y-COORDINATE: **87°36'30.453" W**

| | | | |
|---|-----------------------------------|---------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L22-C | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

PROJECT : Tyco Fire Products LP
 WEATHER: Sunny breezy 55°
 CONTRACTOR: Coleman Engineering
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
 LOGGER: Maunhofer
 DATE: 10-28-14 START: 11:00 END:

TOP OF BARGE TO SED SURFACE (FT): 15' 10"
 TOP OF BARGE TO WATER (FT): ~~13.4~~ 2.5
 WATER DEPTH (FT): 13.4
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|---|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-1.1 dark brown, soft & loose fine sandy silt w/ trace organics & wood | SD-L22-C-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.3 ↓ Portion off surface interval for composite |
| 1 | | | | 1.1-1.5 brown-fine to med sand, trace silt firm | SD-L22-0.0/0.5 |
| 2 | | | | 1.5-3.3 light brown dense fine sand | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 44.374" N
 Y-COORDINATE: 87° 36' 29.972" W



| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 13.7 |
| WEATHER: sunny breezy 35° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 11.2 |
| EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mark Holter | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-28-17 | START: 11:35 END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.6 brown med-coarse sand, firm, trace silt | SD-L22-D-0.0/0.5 |
| 1 | | | 0.6-0.9 silty brown/dk br med-coarse sand, soft & loose | 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 |
| | | | 0.9-1.9 brown med-coarse sand, firm, trace silt | 2.5/3.0 3.0/3.5 |
| | | | 1.9-2.8 light brown fine dense sand | ↓ Portion off surface interval for composite SD-L22-0.6/0.5 |
| | | | 2.8-3.5 light brown fine dense sand w/ very low plasticity clay, dry to moist | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 71

STAFF GAUGE READING (FT): _____

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'45.116" N

Y-COORDINATE: 87°36'28.637" W

| | |
|--|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 15' 6" |
| WEATHER: cloudy, breeze 50° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 13.0 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mark Wren | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-29-14 | START: 12:10 END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--------|--|---|---|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-0.8 brown med.-course well graded sand, some silt, firm | SD-L23-A-0.0/0.5 |
| 1 | | | | 0.8-2.9 light brown fine dense sand w/ trace low-pl clay | " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/2.9 |
| 2 | | | | | Portion off surface interval for composite |
| 3 | | | | | SD-L23-0.0/0.5 |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.7

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 43.647" N

Y-COORDINATE: 87° 36' 28.855" W

| | |
|---|--|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 15' 4" |
| WEATHER: cloudy, windy, 50° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Meinhof</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/28/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVC, ETC |
|--------------------------|------------------|---------------|------|---|---|
| | RECOVERY (FT) | RECOVERY (FT) | | | |
| | | # | TYPE | | |
| 0 | | | | 0-0.3 Brown med-coarse sand w/ small gravel + silt, firm | SP-L23-B-0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/3.0 Partion off surface interval for composite SP-L23-0.0/0.5 <i>archive</i> <i>run</i> |
| 1 | | | | 0.3-1.9 brown silty fine-med sand, firm, moist | |
| 2 | | | | 1.9-2.6 brown med sand, trace silt, firm | |
| 3 | | | | 2.6-3.0 light brown, firm + dense sa fine sand | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

| | |
|---------------------------|------------|
| STAFF GAUGE No. and ELEV: | <u>T1</u> |
| STAFF GAUGE READING (FT): | <u>1.7</u> |
| WATER ELEVATION: | _____ |
| SEDIMENT ELEVATION: | _____ |

| | |
|---------------|-------------------------|
| X-COORDINATE: | <u>45° 05' 43.363"N</u> |
| Y-COORDINATE: | <u>87° 36' 29.168"W</u> |

| | |
|--|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 11' 3" |
| WEATHER: Cloudy, windy 50° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 11.7 |
| EQUIPMENT: Geoprobe w/ macroprobe sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mchister | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10-28-14 | START: 12:53 |
| | END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | | | |
| | | #/TYPE | | |
| 0 | | | 0-1.0 dark brown silt, trace fine sand, soft | SD-L23-C-0.0/0.5 |
| 1 | | | 1.0- 1.8 brown med-well graded sand, trace silt, firm | " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 |
| 2 | | | 1.8-4.5 light brown fine dense sand | 2.5/3.0 3.0/3.5 3.5/4.0 4.0/4.5 |
| 3 | | | | Part of surface interval for composite SP-L23-0.0/0.5 |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: 11
 STAFF GAUGE READING (FT): 1.7
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 42.659" N
 Y-COORDINATE: 87° 36' 29.306" W

| | |
|---|--|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): 10.8' |
| WEATHER: Cloudy, windy 45° | TOP OF BARGE TO WATER (FT): 2.5 |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 8.3 |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mahstov | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/28/14 | START: END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QVOC, ETC |
|--------------------------|------------------|--|--------|---|--|
| | RECOVERY (FT) | | | | |
| | | | #/TYPE | | |
| 0 | | | | 0-1.3 black silt, firm soft, some fine sand & trace some wood + organics | SD-L23-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.17 Portion off surface interval for composite SD-L23-0.0/0.5 <i>mn</i> |
| 1 | | | | 1.3-2.2 Brown silt, firm, some fine sand & trace wood & organics | |
| 2 | | | | 2.2-3.4 brown med well graded sand w/ some silt & trace wood & organics | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV:
 STAFF GAUGE READING (FT): 1.7
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'41.782" N
 Y-COORDINATE: 87°36'29.657" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L24-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: sunny, windy, 45°F

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 3.4'

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Sara Malhotra

SED THICKNESS TO REFUSAL (FT): 4.0'

DATE: 10/8/14

START: 0945 END: 1030

| DEPTH BELOW SURFACE (FT) | | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|--|---------------|--------|---|--|
| PENETRATION (FT) | | | | | |
| 0 | | | | 0-0.7 Dark brown silt w/ trace fine sand & wood chips, loose, wet | SD-L24-A-0.0/0.5 SD-L24-A-0.0/0.5/1.0 SD-L24-A-1.0/1.5 SD-L24-A-1.5/2.0 SD-L24-A-2.0/2.5 SD-L24-A-2.5/3.0 |
| 1 | | | | 0.7-3.0 Brown med- coarse sand, firm, trace silt, trace wood chips, well graded, moist | Portioned out surface interval for SD-L24-0.0/0.5 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: T1 = 582.26
 STAFF GAUGE READING (FT): 2.1' @ 1145am
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X COORDINATE: 45° 05' 44.911 N
 Y COORDINATE: -87° 36' 23.449 W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L24-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: *partly cloudy, windy, 45°F*

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): *4.2'*

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER:

SED THICKNESS TO REFUSAL (FT):

DATE: *10/8/14* START: *1100* END: *1130*

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.2 well graded sand w/ silt, brown, moist, wood chips | SD-L24-B-0.0/0.5 SD-L24-B-0.5/1.0 SD-L24-B-1.0/1.5 |
| 1 | | | 0.2-2.2 Brown, well graded med-coarse sand, trace silt, firm. | SD-L24-B-1.5/2.2 Portioned out surface interval for SD-L24-0.0/0.5 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

ardmore

NOTES: _____

STAFF GAUGE No. and ELEV: *T1 = 582.26*
 STAFF GAUGE READING (FT): *2.1' @ 1145am*
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: *45° 05' 44.112 N*

Y-COORDINATE: *87° 36' 22.322 W*



PROJECT NUMBER
650184.LP.06.CS

STATION ID
L24-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP
 WEATHER: sunny, windy, 50°
 CONTRACTOR: Coleman Engineering
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core
 LOGGER: M. J. Hester
 DATE: 10/8/14 START: 1400 END: 1530

TOP OF BARGE TO SED SURFACE (FT):
 TOP OF BARGE TO WATER (FT):
 WATER DEPTH (FT): 2.9
 TOP OF BARGE TO REFUSAL (FT):
 SED THICKNESS TO REFUSAL (FT):

| DEPTH BELOW SURFACE (FT) | | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|--|------------------|--------|---|--|
| | | RECOVERY (FT) | #/TYPE | | |
| 0 | | | | 0-0.3 silty sand w/ organics & wood chips, black | SD-L24-C-0.0/0.5 ↓ 0.5/1.0 1.0/1.5 1.5/2.0 ↓ 2.0/2.7 Portioned off surface interval for SD-L24-0.0/0.5 |
| 1 | | | | 0.3-2.7 black to dark brown med-coarse sand, firm | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X X-COORDINATE: 45 05 44.840 N
 X Y-COORDINATE: 87 36 22.708 W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L24-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: Sunny, windy, 50° TOP OF BARGE TO WATER (FT):
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 3.5
 EQUIPMENT: Geoprobe w/ macrocore sampler on hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Mark Hester SED THICKNESS TO REFUSAL (FT):
 DATE: 10/8/14 START: 1500 END: 1630

| DEPTH BELOW SURFACE (FT) | | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|--|---------------|--------|--|--|
| PENETRATION (FT) | | | | | |
| 0 | | | | 0.0-0.7 silt w/ organics & wood chips brown, loose | SD-L24-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 |
| 1 | | | | 0.7-1.1 fine-med sand brown, wet & loose, 10% silt | fortuned off surface interval for SD-L24-0.0/0.5 |
| 2 | | | | 1.1-2.0 coarse sandy brown, firm | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X X-COORDINATE: 45 05 45.025 N
 Y Y-COORDINATE: 01 36 22.105 W

| | |
|---|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: sunny, windy 45° | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | X WATER DEPTH (FT): 4.7 |
| EQUIPMENT: Geoprobe w/ macrocore sampler of hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mark Hunter | X SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/8/14 | START: 1500 END: 1925 |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|---------------|--------|---|---|
| | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| 0 | | | | 0-0.2 dark brown silt w/ trace fine sand + organics | SD-L24-E-0.0/0.5 |
| | | | | 0.2-0.4 wood chips | " 0.5/1.0 |
| 1 | | | | 0.4-2.1 dark brown coarse sand, well grades, trace silt, firm | ↓ 1.0/1.5 ↓ 1.5/2.1 |
| 2 | | | | | Portioned off surface interval for SD-L24-0.0/0.5 |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): _____

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X X-COORDINATE: 45 05 45, D59 N

Y Y-COORDINATE: 87 36 21, 204 W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L25-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breezy, 50°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 5.2

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: ManNoter

SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14

START: 0800 END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VQC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.2 wood chips, black | SD-L25-A-0.0/0.5 ↓ 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.3 Portion off surface returned for SD-L25-0.0/0.5 + SD-L25-0.0/0.5-D |
| 1 | | | 0.2-2.3 dark brown, med-coarse sand w/ trace silt & wood chips | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: T1
 STAFF GAUGE READING (FT): 1.9
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 44.578" N

Y-COORDINATE: 87° 36' 21.178" W

| | |
|---|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: sunny, breezy, 50°F | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 4.5 ft |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Mankotter | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/9/14 | START: 0830 END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | RECOVERY (FT) | #/TYPE | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|------------------|--|---------------|--------|---|--|
| | | | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| | | | | | | |
| 0 | | | | | 0-0.2 dark brown sandy silty w/ wood pieces | SD-L25-B-0.0/0.5 SD-L25-B-0.0/0.5-D |
| 1 | | | | | 0.2-2.9 brown well-graded med-grain sand w/ trace silt + trace woody pieces | SD-L25-B-0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/2.9 |
| 2 | | | | | | Portioned off surface interval for SD-L25-0.0/0.5 d D |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: 11

STAFF GAUGE READING (FT): 1.9

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

1' Recovery on L25-B
Attempted 2nd drive to get more sample

X-COORDINATE: 45° 05' 44.019" N

Y-COORDINATE: 87° 36' 21.646" W

L25B-A 45° 05' 44.057" N
87° 36' 21.670" W

Use GPS coord L25-B-A

| | |
|--|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>Sunny, breezy, 50°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>5.6 ft</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler of <u>hand core</u> | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Markofer</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/9/14</u> START: <u>1000</u> END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|--------|---|---|
| | RECOVERY (FT) | | #/TYPE | | |
| | | | | | |
| 0 | | | | 0-1.9 brown well graded med-gr sand w/ trace silt | SD-LAS-C-0.0/0.5 " 0.5/1.0 1.0/1.5 |
| 1 | | | | 1.9-2.1 light brown fine sand w/ silt | ↓ 1.5/2.0 2.0/2.7 |
| 2 | | | | 2.1-2.7 brown silt w/ fine sand & trace organics firm | Portioned out surface interval for SD-LAS-0.0/0.5 + D |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 44.358" N

Y-COORDINATE: 87° 36' 20.355" W

| | | | |
|--|-----------------------------------|----------------------------|--------------|
|  CH2MHILL | PROJECT NUMBER 650184.LP.06.CS | STATION ID L25-D | SHEET 1 OF 1 |
| | SEDIMENT CORE LOG | | |

| | |
|---|-----------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <i>sunny breezy 50°</i> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <i>5.1 FT</i> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Mahoney</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <i>10/9/14</i> | START: <i>1020</i> END: |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | <i>0-2.4 Brown well graded fine-med sand w/ trace silt + wood chips silt lense at 1'</i> | <i>SD-L25-D-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.4</i> |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | <i>Portioned off surface interval for SD-L25-0.0/0.5 + 0</i> |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): *0.2*
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: *45° 05' 43.795" N*
 Y-COORDINATE: *89° 36' 20.676" W*

| | |
|---|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>Sunny, breezy, 50°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>4.1'</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Muhofer</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/9/14</u> START: <u>1040</u> END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-1.5 Brown med-coarse sand w/ 10% silt + trace organics firm to soft 1.5-3.2 Brown fine-med sand, firm to soft | SD-L25-E-0.0/0.5 SD-L25-E-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.5 ↓ 2.5/3.2 |
| 1 | | | | Portioned of surface interval for SD-L25-0.0/0.5 # 0 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 2.0

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 43.544" N

Y-COORDINATE: 87° 36' 21.756" W

| | |
|---|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>Sunny, 55°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>4.0 FT</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>M. Hoffer</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/19/14</u> START: <u>1200</u> END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | | | |
| | | #/TYPE | | |
| 0. | | | 0-0.8 fine sandy silt w/ organics + wood, loose + wet, black | SD-L26-A-0.0/0.5 |
| 1 | | | 0.8-1.8 silty well-graded (fine-coarse) sand, dark brown | " 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 |
| 2 | | | 1.8-2 black wood chips + silt | 3.5/3.8 |
| 3 | | | 2-3 brown med silty sand | Portioned off surface interval for SD-L26-0.0/0.5 MS/MSD |
| 3 | | | 3.0-3.3 fine sandy silt, dark brown, firm | |
| 4 | | | 3.3-3.8 fine-med sand, firm, brown | MS/MSD |
| 5 | | | | |

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} run MS/MSD

NOTES: _____

STAFF GAUGE No. and ELEV: T1

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION: 2.2

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 25' 43.910" N

Y-COORDINATE: 87° 36' 18.534" W

| | |
|--|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <i>Sunny, breezy 50°</i> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <i>3.8 FT</i> |
| EQUIPMENT: Geoprobe w/ macrocore sampler, or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <i>Mayhofer</i> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <i>10/9/14</i> | START: END: |

| DEPTH BELOW SURFACE (FT) | | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|---------------|---|---|
| PENETRATION (FT) | RECOVERY (FT) | | |
| # | #/TYPE | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| 0 | | <i>0-2.9 Brown fine-med well graded sand, firm, moist, trace silt</i> | <i>SD-L26-B-0.0/0.5</i> <i>" 0.5/1.0</i> <div style="text-align: center;"><i>↓</i></div> <i>1.0/1.5</i> <i>1.5/2.0</i> <i>2.0/2.5</i> <i>2.5/2.9</i> |
| 1 | | | <i>Portioned out surface interval for</i> <i>SD-L26-0.0/0.5</i> <i>MS/MSD</i> |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

archive

mm

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 42.623" N

Y-COORDINATE: 87° 36' 19.299" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L26-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):

WEATHER: sunny 55° TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 5.9

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):

LOGGER: Manhota SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14 START: 1300 END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|------------------|--------|--|--|--|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-2.9 med-coarse well-graded sand, brown to dark brown, trace silt, firm | SD-L26-C-0.0/0.5 |
| | | | | | 0.5/1.0 |
| | | | | | 1.0/1.5 |
| | | | | | 1.5/2.0 |
| | | | | | 2.0/2.5 |
| | | | | | 2.5/2.9 |
| 2 | | | | | Portioned off surface interval for SD-L26-0.0/0.5 MS/MSD |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 2.2

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 42.526" N

Y-COORDINATE: 87° 36' 17.983" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID L27-A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: SUNNY 50° TOP OF BARGE TO WATER (FT):
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 5.2'
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Markus SED THICKNESS TO REFUSAL (FT):
 DATE: 10/9/14-10/10 START: 1600 END: 1610 0900

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|------|---|--|
| | RECOVERY (FT) | | | |
| | # | TYPE | | |
| 0 | | | 0-2.9 Brown fine to coarse, well graded sand. Trace silt & organics. silty sand (dark brown) w/ organics lenses at 0.4' + 0.9' | SD-L27-A-0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/2.9 Portioned out surface interval for SD-L27-0.0/0.5 |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 41.880" N
 Y-COORDINATE: 87° 36' 15.956" W

| | |
|---|---|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>Sunny 50°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: <u>Coleman Engineering</u> | WATER DEPTH (FT): <u>2.3</u> |
| EQUIPMENT: <u>Geoprobe w/ macrocore sampler or hand core</u> | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Mahoney</u> | SED THICKNESS TO REFUSAL (FT): <u>4.2</u> |
| DATE: <u>10/9/14-10/10</u> START: <u>1630</u> END: <u>10/10/14 0800</u> | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | #/TYPE | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|--------|---|---|
| | RECOVERY (FT) | | | | |
| | | | | | |
| 0 | | | | 0-0.3 dark brown silty fine sand w/ 50% organics of wood chips | SD-L27-B-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.2 |
| 1 | | | | 0.3-2.2 brown fine-med sand, trace silt, trace organics, trace coarse sand, loose to firm | Partion off surface interval for SD-L27-0.0/0.5 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

} archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 40.794" N
 Y-COORDINATE: 87° 36' 16.499" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L27-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: sunny, 50° TOP OF BARGE TO WATER (FT):
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 4.9
 EQUIPMENT: Geoprobe w/ macrocore sampler of hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Maitland SED THICKNESS TO REFUSAL (FT):
 DATE: 10/9/14-10/10 START: 1700 END: 10/10 0900

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTENCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.4 fine-med brown sand, loose-firm, trace silt | SD-L27-C-0.0/0.5 " 0.5/1.0 1.0/1.5 1.5/2.0 |
| 1 | | | 0.4-0.9 dark brown very loose wet silty fine sand w/ woody chunks | 2.0/2.3 2.5/3.0 3.0/3.6 |
| 2 | | | 0.9-3.6 brown med well graded sand, trace silts, woody pieces at 1.8 + 2.1 | parturbed out surface interval for SD-L27-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 40.892" N
 Y-COORDINATE: 87° 36' 15.361" W

| | |
|---|-----------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>Sunny 50°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>4.8</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Matt Water</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/19/14-10/16</u> START: <u>1700</u> END: <u>10/16 0900</u> | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|--------|---|---|
| | RECOVERY (FT) | | #/TYPE | | |
| | | | | | |
| 0 | | | | <u>0.0-2.4</u> Brown med well grain graded sand, trace silts + wood chips firm to soft | <u>SD-L27-D-0.0/0.5</u> " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.4 Portioned off surface interval for <u>SD-L27-0.0/0.5</u> |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 2.1

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 40.361" N

Y-COORDINATE: 87° 36' 13.747" W

| | |
|---|-----------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: SUNNY, 50° | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): 3.0 FT |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: Majors | SED THICKNESS TO REFUSAL (FT): |
| DATE: 10/19/19 START: 1400 END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QAVOC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | | | |
| | | #/TYPE | | |
| 0 | | | 0-1.1 dark brown silty fine sand w/ 50% wood chips, loose 1.1-2.8 brown silty fine-med sand, firm. wood @ 0.5-1.0 | SD-L28-A-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/2.8 |
| 1 | | | | Portion off surface interval for SD-L28-0.0/0.5 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 2.1

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 39.627" N

Y-COORDINATE: 87° 36' 10.037" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L28-B SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: sunny, breezy TOP OF BARGE TO WATER (FT):
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 4.7
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Manhofer SED THICKNESS TO REFUSAL (FT):
 DATE: 10/9/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0.0-1.3 brown to dark brown silty fine-med sand. some wood & trace gravel | SD-L28-B-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.3 |
| 1 | | | 1.3-2.3 dark brown silty med-coarse sand. some wood | Positioned off surface interval for SD-L28-0.0/0.5 |
| 2 | | | @2.3 is silt plug @ bottom | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____
 STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 33.941" N
 Y-COORDINATE: 87° 36' 12.870" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L28-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breezy, 50°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 1.8

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mahoney

SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.6 silt w/ organics of fine sand soft, dark brown wood chips | SD-L28-C-0.0/0.5 0.5/1.0 1.0/1.6 |
| 1 | | | 0.6-1.6 brown fine-med sand w/ wood chips | Portioned off surface interval for SD-L28-0.070.5 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05' 37.338" N

Y-COORDINATE: 87°36' 11.363" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L28-D SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breezy 55°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 3.7

EQUIPMENT: Geoprobe w/ macrocore sampler of hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: M. Hunter

SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, Q/VOC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-2.9 Brown med-coarse sand, trace silt, trace gravel, firm. | SD-L28-D-0.0/0.5 |
| | | | | " 0.5/1.0 |
| | | | | 1.5/2.0 |
| 1 | | | | 2.0/2.5 |
| | | | | 2.5/2.9 |
| 2 | | | | Portioned off surface interval for SD-L28-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 37.552" N

Y-COORDINATE: 87° 36' 10.059" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L29-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breezy, 50°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 3.7

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: M. Hatcher

SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.8 dark brown fine to coarse sandy, some silt & wood chips, firm | SD-L29-A-0.0/0.5 " 0.5/1.0 ↓ 1.0/1.5 1.5/2.0 2.0/2.7 |
| 1 | | | 0.8-2.7 Brown fine-med sand, trace coarse sand & wood chips trace silt | Portioned off surface interval for SD-L29-0.0/0.5 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 36.017" N

Y-COORDINATE: 87° 36' 07.550" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L29-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breezy, 50°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 4.4

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mains

SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-2.7 Brown fine-med sand, firm, trace wood chunks trace silt | SD-L29-B-0.0/0.5 |
| | | | | 0.5/1.0 |
| | | | | 1.0/1.5 |
| 1 | | | | 1.5/2.0 |
| | | | | 2.0/2.7 |
| 2 | | | | Portioned out surface interval for SD-L29-0.0/0.5 |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 35.241" N

Y-COORDINATE: 87° 36' 05.753" W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L29-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: Sunny, breeze

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 3.9

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Maynoter

SED THICKNESS TO REFUSAL (FT):

DATE: 6/27/14

START:

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|--|---|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-0.7 silty fine-med sand w/ 25% wood chips, loose | SP-L29-C-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 |
| 1 | | | | 0.7-3.8 Brown to dark brown med-coarse sand, some silt, trace wood, trace small gravel, firm | 2.0/2.5 2.5/3.0 3.0/3.5 3.5/3.8 |
| 2 | | | | Silt plug at bottom (black, firm) | Portioned off surface interval for SP-L29-0.0/0.5 |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): 4.1

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45°05'35.982" N

Y-COORDINATE: 87°36'05.889" W

| | |
|---|---|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>Sunny, windy 458</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>3.3</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Max W...</u> | SED THICKNESS TO REFUSAL (FT): <u>4.2</u> |
| DATE: <u>10/8/14</u> START: END: | |

| DEPTH BELOW SURFACE (FT) | | | SEDIMENT DESCRIPTION | COMMENTS |
|--------------------------|---------------|------|--|---|
| PENETRATION (FT) | RECOVERY (FT) | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | SAMPLE ID, QA/QC, ETC |
| | # | TYPE | | |
| 0 | | | 0-0.6 silty sand, w/ wood chunks, dark brown | SID-L30-A - 0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.3 |
| 1 | | | 0.6 to 1.0 dark brown med-coarse sand w/ silt | |
| 2 | | | 1.0 1.2 ^{1.3} wood | |
| 3 | | | 1.2 ^{1.3} 2.3 dark brown, coarse sand, some med sand, firm, trace silt | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): _____

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

nps coord
 L30-A

X-COORDINATE: 45 05 34.702 N

Y-COORDINATE: 87 36 04.314 W

not L30-A-A

| | |
|---|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>sunny, windy 45°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>2.6</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Mallinckrodt</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/8/14</u> START: END: | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--|--------|--|--|
| | RECOVERY (FT) | | #/TYPE | | |
| | | | | | |
| 0 | | | | 0.0 - 3.4 med-coarse sand w/ trace silt, brown-dark brown, firm wood at 0.9 - 1.25 3.3 - 3.4 | SD-L30-B-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.4 |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____

STAFF GAUGE READING (FT): _____

WATER ELEVATION: _____

SEDIMENT ELEVATION: _____

X-COORDINATE: 45 05 34.500 N

Y-COORDINATE: 87 34 00.991 W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L30-C ^{2nd} _{2nd} SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):
 WEATHER: Sunny, & windy, 45° TOP OF BARGE TO WATER (FT):
 CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 4.0
 EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):
 LOGGER: Matt Waters SED THICKNESS TO REFUSAL (FT):
 DATE: 10/8/14 START: END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | | SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|---|
| | RECOVERY (FT) | #/TYPE | | | |
| | | | | | |
| 0 | | | | 0-2.0 med well-graded brown sand, firm, trace silt + wood chips | SD-L30-C-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0 |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

NOTES: _____

STAFF GAUGE No and ELEV: _____
 STAFF GAUGE READING (FT): _____
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

1st ATT 1.4'

GPS coord
L30-C-A

X-COORDINATE: 45 05 35.949 N

Y-COORDINATE: 87 36 05.075 W

2nd ATT {
 45 05 35.932 N
 87 36 04.990 W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L31A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: partly sunny, windy 50°F

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 4.8

EQUIPMENT: Geoprobe w/ macrocore sampler of hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER:

SED THICKNESS TO REFUSAL (FT):

DATE: 10/8/14

START: 1130

END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-1.2 brown med-coarse sand, firm. | SD-L31-A-0.0/0.5 SD-L31-A-0.5/1.0 |
| 1 | | | 1.2-1.7 to dark brown med-coarse sand w/ silt + wood chips, firm | SD-L31-A-1.0/1.5 SD-L31-A-1.5/2.0 SD-L31-A-2.0/2.7 |
| 2 | | | 1.7-2.6 brown med-coarse sand, firm. | Portioned off 0.0/0.5 for SD-L31-0.0/0.5 + SD-L31-0.0/0.5-D |
| | | | 2.6-2.7 black wood chips | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 33.457 N
 Y-COORDINATE: 87° 35' 58.942 W



CH2MHILL

PROJECT NUMBER
650184.LP.06.CS

STATION ID
L31-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: sunny windy 50°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): ~~3.4~~ 4.2

EQUIPMENT: Geoprobe w/ macrocore sampler on hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER:

SED THICKNESS TO REFUSAL (FT):

DATE: 10/8/14 START: 1200 END:

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|--|---|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-1.5 brown med-coarse sand, firm, moist | SD-L31-B-0.0/0.5 SD-L31-B-0.5/1.0 SD-L31-B-1.0/1.7 Portioned out SD-L31-0.0/0.5 + SD-L31-0.0/0.5-D |
| 1 | | | 1.5-1.7 black wood chips | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 2.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 33.349 N
 Y-COORDINATE: 87° 35' 58.722 W

| | |
|--|-------------------------------------|
| PROJECT: Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>sunny windy 50°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>4.0</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or <u>hand core</u> | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Matt Hester</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/8/14</u> | START: <u>1200</u> END: <u>1450</u> |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | #/TYPE | SEDIMENT DESCRIPTION <small>SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE</small> | COMMENTS <small>SAMPLE ID, QA/QC, ETC</small> |
|--------------------------|------------------|--|--------|--|--|
| | RECOVERY (FT) | | | | |
| | | | | | |
| 0 | | | | 0.-1.2 dark brown silt w/ trace sand & organics, loose | SD-L31-C 0.0/0.5 " 0.5/1.0 " 1.0/1.5 " 1.5/2.0 " 2.0/2.5 " 2.5/2.9 |
| 1 | | | | 1.2-1.6 dark brown sand w/ silt & 50% wood | <div style="text-align: center;">↓</div> Portion surface interval for SD-L31-0.0/0.5 & D |
| 2 | | | | 1.6-2.9 brown med-coarse sand, firm | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

} archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 0.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45° 05' 33.119 N
 Y-COORDINATE: 87° 35' 57.698 W

| | |
|--|-----------------------------------|
| PROJECT : Tyco Fire Products LP | TOP OF BARGE TO SED SURFACE (FT): |
| WEATHER: <u>sunny, windy, 15°</u> | TOP OF BARGE TO WATER (FT): |
| CONTRACTOR: Coleman Engineering | WATER DEPTH (FT): <u>4.1</u> |
| EQUIPMENT: Geoprobe w/ macrocore sampler or hand core | TOP OF BARGE TO REFUSAL (FT): |
| LOGGER: <u>Matt For</u> | SED THICKNESS TO REFUSAL (FT): |
| DATE: <u>10/8/14</u> START: <u>1200</u> END: <u>1450</u> | |

| DEPTH BELOW SURFACE (FT) | PENETRATION (FT) | | SEDIMENT DESCRIPTION SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE | COMMENTS SAMPLE ID, QA/QC, ETC |
|--------------------------|------------------|--------|---|--|
| | RECOVERY (FT) | #/TYPE | | |
| | | | | |
| 0 | | | 0-0.7 black wood chips + silt, soft | SO-L31-D-0.0/0.5 ↓ 0.5/1.0 1.0/1.5 1.5/2.0 portioned out surface interval for SO-L31-D-0.0/2.5 d D |
| 1 | | | 0.7-1.3 dark brown to brown silt, trace med-sand, firm | |
| 2 | | | 1.3-2.0 med-sand, dark brown, 20% silt, firm to soft | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

Archive

NOTES: _____

STAFF GAUGE No. and ELEV: _____
 STAFF GAUGE READING (FT): 0.1
 WATER ELEVATION: _____
 SEDIMENT ELEVATION: _____

X-COORDINATE: 45 05 33.117 N
 Y-COORDINATE: 87 35 54.869 W