

	CH2MHIL	lee.	JECT NUMBER 0184.LP.06.CS	STATION ID	SHEET	1 OF 1	
3	UMZIVITIL.			SEDIMENT CO	RE LOG		
PROJEC	T : Tyco Fire Products	LP	T	OP OF BARGE TO SED SUR	FACE (FT):		
WEATHE	R: SUDMU, be	ety, 50	Т	OP OF BARGE TO WATER (FD: 2.5		
	CTOR: Coleman Englo			ATER DEPTH (FT):	27.5	**************************************	
	ENT: Geogrobe w/ mai	crocore samp		OP OF BARGE TO REFUSAL	****	200	7
	1: Mailloter 19-21-14 ST	TART:	END:	ED THICKNESS TO REFUSA	L (F1);		
	ELOW SURFACE (FT)	ADI.	SEDIMENT DE	SCRIPTION	COMME	ITS]
	PENETRATION (FT)						1
	RECOVERY	TYPE	SEDIMENT TEXTURE, COLO CONSISTANCY, (STRUCTURE), QA/QC, ETC	
	0_	0	.0-0,4 rem	dense light.	SD-164-0	-0.0/04 -	RUN
		0.	4-0.9 alacial	n fine sond	GT-L04-1)-0.4/0.8	ARCHI
. 1			dense	light, brun -	-	-	
	_		151T Sai	light brown _ of w/ pea of trace clay)	-	-	
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NOTES		_		AFF GAUGE No. and ELEV			
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x-coordinate: 45° 05 53.869" A y-coordinate: 87° 36 35 201" W

augusti	PROJECT NUMBER 650184.LP.06.CS	STATION ID	A SHEET 1 OF 1	
CH2MHIL		EDIMENT COF		
ROJECT: Tyco Fire Products I	LP TOP	OF BARGE TO SED SURFA	CE (FT):	
EATHER: SWILL VILLY	117	OF BARGE TO WATER (FT		
ONTRACTOR: Coleman Engage	<u> </u>	ER DEPTH (FT): 2	7 · 5	
GGER: MUNDER	UDDO X SED	THICKNESS TO REFUSAL		
	ART: HE MONEND: 1300 SEDIMENT DESC	RIPTION	COMMENTS	
PTH BELOW SURFACE (FT) PENETRATION (FT)	SEDIRICHT SCOO		CONMENTS	
RECOVERY W/T	YPE CONSISTANCY, & S	TRUCTURE	SAMPLE ID, QA/QC, ETC	
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NOTES:	STAFF GAUGE No. and ELEV: T1 STAFF GAUGE READING (FT): 1. 7 WATER ELEVATION: SEDIMENT ELEVATION:	
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STATION ID LS-A- A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 3/
WEATHER: SUNYY, COLM, 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):

GGER:		\sim	SED THICKNESS TO REFUSAL	_ (FT):
TE: N-1	1-14	START:	END:	
	SURFACE (F		SEDIMENT DESCRIPTION	COMMENTS
	NETRATION (
lec.		VERY (FT)		
1	HECO	#/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	SAMPLE ID, QA/QC, ETC
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-	l		the do No. 1	-1.0/1.5
	1	1	clay w/ fine dense -	-1
	- 1) / ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	-1.5/2.0 -
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NOTES			STAFF GAUGE No. and ELE	v: 1 (
MOTES			STAFF GAUGE READING (FT): 1.5
			WATER ELEVATION	
			CEDIMENT ELEVATIO	

x-coordinate: 45° 05' 53, 188" N y-coordinate: 87° 36 35, 301" W

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STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT);
WEATHER: GUILLY IVINDY 450	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 18.0
EQUIPMENT: Geoprobe wit macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
	OFF THEMSELES TO SET ION 1870.

LOGGER: MANDYCY SED THICKNESS TO REFUSAL (FT): START: 1030 END: 1330 DATE: 10-21-14 DEPTH BELOW SURFACE (FT) SEDIMENT DESCRIPTION COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE 02-50-L05-B-0-0/0.5 0-38, light brum, very dense very fine sand, moist to 0_ 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 dm. 2.5/3.0 3.0/3,5 3.5/3.8 Partimed of Suffice, interval for composite SD-LOS-0.0/0.5)yun

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

X-COORDINATE:

45°05'5d.921 87°36'34.575 Y-COORDINATE:

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SHEET 1 OF 1

SEDIMENT CORE LOG

		and the second second		
PROJECT : Tyco Fire Products LP		TOP OF BARGE TO SED SURFA	ACE (FT): 🖣	
WEATHER: SUNNY, DROZY, F	70°	TOP OF BARGE TO WATER (F)		
CONTRACTOR: Coleman Engineering		WATER DEPTH (FT): 35,5		
EQUIPMENT: Geoprobe w/ macrocore s	ampler or hand core	TOP OF BARGE TO REFUSAL (FT):		
LOGGER: WANDER		SED THICKNESS TO REFUSAL	(FT):	
DATE: // -91-14 START:_	END:			
DEPTH BELOW SURFACE (FT) SEDIM		ENT DESCRIPTION	COMMENTS	
PENETRATION (FT) RECOVERY (FT) #/TYPE		, COLOR, RELATIVE DENSITY OR	SAMPLE ID, QA/QC, ETC	

DATE: /// -3	SURFACE (FT)	SIANI.	SEDIMENT DESCRIPTION	COMMENTS	
PE IN BELOW	NETRATION (FT	,			
	RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC	
0_ - - 1 _ -		72	0-1.0 light brown fine sand, dense moist 1.0-4.3 light brown, layers of fine delike sand and low plasticity clay	50-L05-C-0.0/0.5 9.5/1.0 1.5/2.7 2.5/3.5 3.5/4.0	ord
2			4.0/4,3 glacial hill	Profined off surface - interval for SD. LOS - 0.0/0.5) Y
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IOTES:					STAI	FF GAU	GE No.	and ELEV	: 1:	1_				_
10123.		 		-	STAF	F GAUG	E REA	DING (FT)		7		 		_
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						OLDIN	_,,,,			4	,		(1	

x-coordinate: 45° 05'52. 255 N y-coordinate: 87° 36'35. 684" W

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	SEDIMENT COI	RE LOG
PROJECT: Tyco Fire Products LP WEATHER: CONTRACTOR: Coleman Engineering EQUIPMENT: Geoprobe wanacrocon LOGGER: WILLIAM	WATER DEPTH (FT): Seampler or hand core TOP OF BARGE TO REFUSAL (SED THICKNESS TO REFUSAL	n: 3·5' 7 (FT):
DATE: \0/3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	END: SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (FT) RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_ - - 1_ 2_ - 3_ - 4_ - - - - - - - - - - - - - - - - -	0.5-0.9 brown fine dense sand 0.5-0.9 brown med- fine dense to fine dense to fine very dense sand	SD-15-D-0.0/0.5 1.0/1.5 1.0/1.5 1.5/2.0 2.0/2.7 Portuned off surface 1.0/0.5 1.0/0.5
NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT):	T4

x-coordinate: 45° 05' 52, 197" N y-coordinate: 87° 36' 34, 970 W

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SHEET 1 OF 1

SEDIMENT CORE LOG

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): 3.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 29.0
EQUIPMENT: Geoppobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: WILLIAM	SED THICKNESS TO REFUSAL (FT):

DATE: 10/23/14 START: END: SEDIMENT DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 0-0. 2 light brown very dense fine sand 0.2-0.3 glacial till (v.dense)
0.3-0.5 pea gravel/coorse
sand losse lense
0.5-4.0 glacial till (v.dense)

NOTES:	STAFF GAUGE No. and ELEV:	<u> </u>	
	STAFF GAUGE READING (FT):	6	r.)
	WATER ELEVATION:		
	OCCUPATION OF THE PROPERTY OF		

x-coordinate: 45°05'51,423" N y-coordinate: 87°36'38.599'W

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STATION ID

SHEET 1 OF 1

SEDIMENT	CORE	LOG
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PROJECT : Tyco Fire Products LP	
WEATHER: CLIMAN, DICERY, 500	'
CONTRACTOR AND A PORT OF THE PROPERTY OF THE P	T
CONTRACTOR: Coleman Engineering	

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT): 2.5
WATER DEPTH (FT): 29.5

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

	DATE: 10123		START.	SED THICKNESS TO REFUSA	L (FT):
	DEPTH BELOW SU	REACE (ET)	START:	END.	
	PENETRATION (FT))	SEDIMENT DESCRIPTION	COMMENTS
		RECOVE	RY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
NOT	0_ 1_ 2_ 3_ 4_ 5_			0-0-3 hight brown very dense, fine, sand. 0.3-4.8 glacual till, very dense, fine sand day w/ pla gravel throughout	@ SD-106-D-0.8/0.3- BT-66-D-0.3/0.8-

NOTES:	
NOTES.	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 1, (2
	WATER ELEVATION:
	SEDIMENT ELEVATION:

X-COORDINATE:

45'05'51.087" N 87°36'38.393 N

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-	CH2MHILL
PROJEC	T : Tyco Fire Products LP

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PROJECT NUMBER	
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STATION ID

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 27-8
WEATHER: CHURY, WINEW, 280	TOP OF BARGE TO WATER (FT): 15
CONTRACTOR: Column Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Mainy W	SED THICKNESS TO REFUSAL (FT):

DATE: JUT 1	DATE: 17 1/4 14 START: END:				
DEPTH BELOW		SEDIMENT DESCRIPTION	COMMENTS		
PE	RECOVERY (FI)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, OMOC, ETC	.	
0		0-2.2 hight brown fine dense sand, trave law plasticity clay	So-107-C-0.016.5 = 05/1.0 1.011.5 1.5/2.0 Portuned off surface 1.010.5 1.010.5	Parchive Jann	

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STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):
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STATION ID LOT - 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: \	1 - 41-	Н	START:	END:	o fe I ja
DEPTH BEL			3179111.	SEDIMENT DESCRIPTION	COMMENTS
		RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, OWOC, ETC
2_				(hight booms fine dense sand w/ grey low-plasticity clay & pea gravel through.	GT-L07-D-0.0/05

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

X-COORDINATE: 45°05'51.155"N Y-COORDINATE: 87°36'36.912'W

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PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 3"4" " "
WEATHER:	TOP OF BARGE TO WATER (FI): 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):
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DATE: \	-4-14		START: 1	CSY END:	
DEPTH BEL	OW SURF	ACE (FT)		SEDIMENT DESCRIPTION	COMMENTS
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		RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	
			WIYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/OC, ETC
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	4	i		(extremely dense - free sand I low- plasticity of clay w/ pea gravel thru-out)	-
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NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:	1,7
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X-COORDINATE: 45 05 50 771 N Y-COORDINATE: 87 36 37. 660 61

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SHEET 1 OF 1

PROJECT	: Tyco Fi	re Produt	±s LP		TOP OF BARGE TO SED SURI	FACE (FT): 18,7	
WEATHER	NEATHER: TOP OF BARGE TO WATER (FT): 2,5						
CONTRAC	CONTRACTOR: Coleman Engineering WATER DEPTH (FT);						
EQUIPME	OUIPMENT: Geoprobe w/ macrocole sampler or hand core TOP OF BARGE TO REFUSAL (FT):						
LOGGER:	OGGER: YOU IN THE SED THICKNESS TO REFUSAL (FD:						
DATE:			START:	END:	<u> </u>		
DEPTH BEL					SEDIMENT DESCRIPTION	COMMENTS	
	PENETR	RECOVE					
			MIYPE	SEDMEN	TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAVQC, ETC	
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NOTES:					STAFF GAUGE No. and ELEV:		
					STAFF GAUGE READING (FT): WATER ELEVATION:		
					SEDIMENT ELEVATION:		

x-coordinate: 45°05 50.789"N

Y-COORDINATE: 87 "36" 35 681"W

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STATION ID LOS-B

SHEET 1 OF 1

SEDMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 17,6
WEATHER Closey, windy 380=	TOP OF BARGE TO WATER (FT): 3,5
CONTRACTOR: Colemen Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Mathofer	SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) WTYPE	SEDIMENT DESCRIPTION	COMMENTS
RECOVERY (FT)		
	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAYOC, ETC
0_ 0		
5	-	SD-LO8-00/05 diplicate

NOTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): '\
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45°05`50, 648" N y-coordinate: 87°36'34, 980" N

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L08-C

SEDIMENT CORE LOG

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: Mailsofer. SED THICKNESS TO REFUSAL (FT): DATE: 11/5/14 END: START: SEDIMENT DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, OA/OC, ETC #/TYPE CONSISTANCY, & STRUCTURE SD-LO8-C- 0.0/0.5 0.0-2.9 : Light brown, very dense 0.5/1.0 fine sand, with some clay 1.0/1.5 from 0.8-13' 1,5/2.0 20/25 25/29 GT-LO8-C- 29/34 2.9-3.6 = Glacial till (extremely dense , light brown , sandy clay, fine sends, pen grazel throughout) 3 12 Portion off surface interval for composite 50-LO8-0.0/0.5 duplicate

NOTES:	STAFF GAUGE No. and B	ELEV:
	STAFF GAUGE READING	
	WATER ELEVA	TION:
	SEDIMENT ELEVA	TION:

x-coordinate: 45° 05'50, 401"N

Y-COORDINATE: 87°36'36.613"W

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SHEET 1 OF 1

Sediment Core Log

The state of the s	
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 39,3
	TOP OF BARGE TO WATER (FT): 2.5
WEATHER: (1000 1110 124 39 17 CONTRACTOR: Coloman Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Mychoter	SED THICKNESS TO REFUSAL (FT):

PTH BELOW SURFAC	E (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETRATI		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, OAKOC, ETC
0	42	0.0.2= Light brown, firm, five synd 0.2-1.5= Light brown, non plushic clay soft to firm, with Afre sand 1.5-4.2= Glacial Till (extremely day, light brown, sandy clay, fine sands, pea grawel throughout)	

IOTES:	STAFF GAUGE No. and ELEV:	
	SIAFF GAUGE REPUBITO (F1).	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

Y-COORDINATE: 45°05'50 .003" N Y-COORDINATE: 87°36'35.742" W

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2.33	
	CH2MHILL
3	

SHEET 1 OF 1

SEDIMENT CORE LOG

The state of the s	
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): 50,8
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Matholia	SED THICKNESS TO REFUSAL (FT):
DATE: \\\(\(\(\(\(\(\)\)\\\\\\\\\\\\\\\\\\\\	

DATE: \\	10114	START:	END:	_
DEPTH BEL	OW SURF	ACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
ì		ATION (FT)		
i .		RECOVERY (FT)		
1		WIYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	SAMPLE ID, QAVOC, ETC
1			CONSISTANCY, & STRUCTURE	200 tz.ib, 4900, 216
i			la di	
<u> </u>			/ 1	
0_	1	i I	0-11 light brown firm fine -	517- U9-1-0.016.5 -
1	Į.		- Coll with two -	
1 -	{	1 1	Sand, trace chy	0.5/1.0
ŀ	J)	solvery hade only	1 3/10
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[-	-	{ {	III - 4. O IRMI, WOWN FYM -	1/ 1/2/2
1 .	1]]	1.1-2.0 light brown frm to soft intermingly fine sand it soft non-pl clay	1.0/1.5 -
1 '-	1	1 1	MUNITY MUNITY	GT-W9-A-2012.5
1 -		1 1	time sahe it could	161-W9-A-10175
ı	1	1 1	The distance -	010/010
-	-	1 1	- (מייט קיימון	Riva He it least
1		1 1		Borton of surface interva
l '	1	}	In so had till dince -	E-1 100 02110 -
	4		2.0-2.8 glacial till, donce	אינטקומיט די ד
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OTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 2, 4
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45°65'49.640"N y-coordinate: 87°36'36.959"W

CH2MHILI	L

L09-16 SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Typo Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 37. 2
WEATHER WITH WHAY 350	TOP OF BARGE TO WATER (FT): 315
CONTRACTOR: Column Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Muyh stor	SED THICKNESS TO REFUSAL (FT):

DATE: \(2/14	START:	END:	
	OW SURFACE (SEDIMENT DESCRIPTION	COMMENTS
	PENETRATION	WIYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOC, ETC
0	7.5		1-1.0 soft brun/reddish - light by sand, Fre- med, some sitt (brown- t black), trace soft - clay 1.0-2.5 glacial till	SD-W9-B-0.0/05 -SD-W9-B-0.5/1.0 -GT-W9-B-1.0/1.5 - Portun off surface interval

MOTEO.	STATE CALLET ALL THE TALL
NOTES:	STAFF GAUGE No. and ELEV: 7
	STAFF GAUGE READING (FT): 2 9
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45°65'49.310"N
y-coordinate: 97°36'35,641"N

CH2MHILL

STATION ID

L09-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 3), 5
WEATHER: Cluster Cold, Windh 320	TOP OF BARGE TO WATER (FT): 3.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 10 . U
ECUIPMENT: Geoprobe w/macrocote sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: M. huler	SED THICKNESS TO REFUSAL JETD:

DATE: 11/0//4 START: ENO: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS ENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, OWDC, ETC CONSISTANCY, & STRUCTURE 0-0.80.6 light brown reddish soft/firm nonplastic day w/ fine sand SD-69-C0.010-6 \$16T-109-C-0.6/1.1 Parties off surface -interval for composite SD-W9-0.0/0.5 or drup 0.6-4.9 glaced till

OTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): 2, 4	•
	WATER ELEVATION:	
	SEDMENT ELEVATION:	•

X-COORDINATE:

45°05'48.739"N 87°36'36.692"W

470	
	CH2MHILL
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L09-D

SHEET 1 OF 1

SEDIMENT CORE LOG

TOP OF BARGE TO SED SURFACE (FT): 27. 7 PROJECT: Tyco Fire Products LP WEATHER: Cloudy cold winder TOP OF BARGE TO WATER (FT): WATER DEPTH (FT): 25-2 CONTRACTOR: Coleman Engineering

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

LOGGER: MALMIN SED THICKNESS TO REFUSAL (FT):

DATE: 1/(9/14 START:			START:	END:	
DEPTH BIELOW SURFACE (FT)			SEDIMENT DESCRIPTION	COMMENTS	
	PENETR	TION (FT)		22 y	
		RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	PANELS IN CARDO INTO
	. ']]	&TYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOC, ETC
1 1					
				0-62 1.41.	50 1.10 D 00.10 02
0_			1	0-0.3 dark brownsoft -	SD-W9-D-00/0,75 -
		l I		silty fine sand, - trace organics -	1) 0.5/1.0 -
I _				1-1- Mannics	
				TYGUL ON JULIE	1 1.0/1.5
	Į.			1) 3-14 light boun fine	1,5/2.0
'-				U.3-1,4 light brown fine	
-				GIVIN SONA, ITAL	V 2.0/2.4 _
I _				silt, trave med-gr	0 4 1/ 10
1					INTIM Off Sultare
-	1			1.4-2.2 light brown fine -	Portion off sulface - interval for composite-
-	}]		1, 7 d & light brown fine	SD-W9-0.0105
2		1 1		and diamed clay	
	1	1 1		sand tim-pl. day,	4 dwp -
-	1			dense	' -
1 -	ł	}		22 24 1 144 5 11/100	-
-	ł			22-24 light brown from/donse	_
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NOTES:	 STAFF GAUGE No. and ELEV:	<u> </u>
	STAFF GAUGE READING (FT):	A. U
	WATER ELEVATION	
	SEDIMENT ELEVATION	

X-COORDINATE: 45"05"48.033"N Y-COORDINATE: \$7"36!36.236"W

\mathbf{Y}	CH2MHILL

LID-A

SHEET 1 OF 1

SEDIMENT CORE LOC

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 18,5

WEATHER: (1000) win 20, 3897.

TOP OF BARGE TO WATER (FT): 2.5

CONTRACTOR: Column Engineering WATER DEPTH (FT):

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

LOGGER: MANNEWS TO REFUSAL (FT):

	Mainotor		SED THICKNESS TO REFUSAL (FT):		
DATE: 1/	DATE: 11/5/14 START:		END:		
DEPTH BELC	NV SURFACE (FT)		SEDIMENT DESCRIPTION	COMMENTS	
	PENETRATION (FT) RECOVERY (I	FT) YPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CANOC, ETC	
2	U.B-	4.2	O-4.2 = light brown, extremely dense, five sund, poorly gradued.	Portion off Surface Portion off Surface Interval for composite SD-L10-00/0.5	

NOTES:	STAFF GAUGE No. and ELEV: "T1_	
	STAFF GAUGE READING (FT): [, 4	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

X-COORDINATE: 45°.05'50,411"N Y-COORDINATE: 87°36',34',576"W

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640	CH2	381 B
	UNC	711111

STATION ID LIV-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 7,5

WEATHER: Cloudy, under, 38°F.

TOP OF BARGE TO WATER (FT): 0,5

CONTRACTOR: Coloman Engineering

WATER DEPTH (FT):

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: Mainder

SED THICKNESS TO REFUSAL (FT):

DATE: /// 5//-	ATE: (1/5/// START: END:			
DEPTH BELOW SURI	FACE (FT)		SEDIMENT DESCRIPTION	COMMENTS
PENETR	ATION (FT RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOC, ETC
2	3.8	3.9	0.0-0.2= Light brown, fine to medium sound, danse, poorly graded 2.2-3.8= Light brown, extremely dense fine sand	SD-LIO-B-0.0/0.5 0.5/1.0 1.0/1.5 1.5/20 2.0/2.5 3.0/3.5 3.5/3.8 Portion off surface interval for composite SD-LIO-0.0/0.5

NOTES:	STAFF GAUGE No. and ELEV: 7.1
	STAFF GAUGE READING (FT): 1,9
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45° 05 `50.019 " 1/ y-coordinate: 87°36 33.773 " \

0	CH2MHILL

STATION ID LID-C

SHEET 1 OF 1

SECRIFICATIONS

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT): 95, 4

WEATHER: (/auty, which 38*/F

CONTRACTOR: Columns Engineering

WATER DEPTH (FT):

EOUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

LOGGER: NAI hold SED THICKNESS TO REFUSAL (FT):

DATE: 11/57	114	START:	END:	
DEPTH BELOWS	SURFACE (FT)		SEDIMENT DESCRIPTION	COMMENTS
PEN	RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVICC, ETC
0-1-1-3-1-5-1-5-1-5-1-5-1-5-1-5-1-5-1-5-1	3.5	3.5	O.U-O4: Meight biom, flu to Mediam sund, the firm to dense 8.4-0.7= Medium to course sand, dink brown, well graded, firm to dense. 0.7-1.0: Same as 0-0.4 1.0-2.0 = Light brown, soft non- plastic cluz with some fine sand 2.0-26= Same as 0-0.4 2.6-3.5 = Light brown, low to medium platticity slay, soft to firm	SD-LIO-C- 6.010.5 -0.5/1.0 -1.0/1.5 -1.5/2.0 -2.5/3.0 -3.0/3.5 Portion off surface Interval for composite D-LIO-0.0/0.5

		- · · · · · · · · · · · · · · · · · · ·	
NOTES:	STA	FF GAUGE No. and ELEV: Ta	
	STAF	F GAUGE READING (FT): 1,9	
		WATER ELEVATION:	
		SEDIMENT ELEVATION:	

x-coordinate: 45°05'49,664"N y-coordinate: 87°36'34,538"ω

CH2MHILL	650184.LP.06.CS	CM SHET 1 OF 1/2
CT: Tyco Fire Products LP	TOP OF BARGE TO SED SUR TOP OF BARGE TO WATER (
ACTOR: Column Engineering	WATER DEPTH (FT): 25.	5
Markoter STARTS	SED THICKNESS TO REFUSA END:	
PENETRATION (FT)	SEDIMENT DESCRIPTION	COMMENTS
RECOVERY (FT)	SEDMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAVOC, EYC
3.5	3.5-4.7 light brown very dense five sand will some dense clay 4.7-6.7 light brown soft to fixen low-pl day w/ some five sand thru-out	4.014.5 4.5/5.0 - 5.0/5.5 5.5/6.0
- 67		
6.7		
8,5	, x-	-

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

L10-C-2

NOTES:

X-COORDINATE:

45°05′49.575″N 87°36′34,436″h

CH2MHILL		
WEATHER: COUCH, WINCH	TOP OF BARGE TO SED SUR TOP OF BARGE TO WATER (
CONTRACTOR: Column Engineers		rue .
LOGGER: Marwish		
DATE 11 8/14 START	GED THICKNESS TO REPUSA	Lien: 11,5
DEPTH BELOW SURFACE (F1)	SECMENT DESCRIPTION	COMMENTS
PENETRATION (FT) RECOVERY (FT) ATYPE	SEDIMENT TECTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, OMOC, ETC
7	7-11.3 glacial till : (light reddish br. day i fine sand - igrard, dense).	GT-LID-C-747.5 +
2	Lay I fine send Layard, dense).	- - - -
3_		-
4-		-
11.5	**************************************	- - - -
5		
NOTES:	STAFF GAUGE No. and ELEV STAFF GAUGE READING (FT)	
	WATER ELEVATION SEDIMENT ELEVATION X-COORDINATE:	

CH2MHILL

STATION ID U0-0

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 29.0
WEATHER: Clove, windy, Zgof	TOP OF BARGE TO WATER (FI): 2,5
CONTRACTOR: Column Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Meilhole	SED THICKNESS TO REFUSAL (FT):

LOGGER: Maily de

DATE: \(/	5/14		START:	END:	<u> </u>
DEPTH BELOW SURFACE (FT)		4	SEDIMENT DESCRIPTION	COLMENTS	
		TION (FT) RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, OWOC, ETC
0_				0-1.7 = Light brown, fine sand _	S3-L10-D - 0.6/0,5
-	·			with some soft non-plushe duy-	0.5/1.0
-				truce medium sand, firm -	1.0/1.5
1_			:	-	1.5/2.0 _
_				1.7-4.6= Light brown, intermingeling	20/3.5
<u>.</u>				layers of fine sand and low plashicity clays, soft	2.5/3.0
2_					343.5
-				-	3.5/4.0
					4.0/4.6
-				-	-
3_					-
-		0			-
		7.8		7	-
4				<i>P.</i> –	_
				>	of for confern
-		 -	4.6		Partien off surface -
5			75-14	-	interval for composite
"-					SD-C10-0.0/05-
-				8	-
[]			1	3	-
	<u> </u>				

NOTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 1, 9
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45°05'49, 364" N y-coordinate: 87°36'34',171" W

	CH2MHILL

TATION ID

SHEET 1 OF 1

SENTHER PORTELLOR

The same of the sa	
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 30.4
WEATHER: partly sunny cold, breezy	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w/ (nacrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: MUNOLOY	SED THICKNESS TO REFUSAL (FT):

DATE: 11 7/14 DEPTH BELOW SURFACE (FT) SEDIMENT DESCRIPTION **COMMENTS** PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR WTYPE SAMPLE ID, DAVOC, ETC CONSISTANCY, & STRUCTURE 0-0-8 light brown firm to deng fine sand, trace soft dy 50-6-L11-A-0.0165 0_ 0.8-2.8 light brown non
plastic soft clay
mixed w/ fine

2.8/3.4

Conturn off southable

a fine sand w/

pebbles

2.0/2.5

Grt-LII- A 2.8/3.4

Conturn off southable

interval for composit

SD-LII-U.0/0.5 W

OTES:		STAFF GAUGE No. and ELEV:	
		STAFF GAUGE READING (FT):	1,9
		WATER ELEVATION:	
		SEDIMENT ELEVATION:	

X-COORDINATE:

45°05'48,629"N 87°36'35.309"W

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PROJECT MINEER 650184.LP.06.CS LII-B

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 2 (2.4)
WEATHER Darthy sunny Illid, breezh	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Column Engineering	WATER DEPTH (FT):
ECILIFMENT: Geoprobe w/chacrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER- May Nutra	CCD TANGETTO TO BETTE AND ADDRESS OF THE PARTY OF THE PAR

DATE 11/7/14 DEPTH BELOW SURFACE (FT) COMMENTS ENETRATION (FT) RECOVERY (FT) SEDMENT TEXTURE, COLOR, RELATIVE DENSITY OR STYPE SAMPLE ID, OMOC, ETC CONSISTANCY, & STRUCTURE 0-0.7 light brown fine - 8D-LII-B-0.0/0.5 - sand, soft to firm, 8D-LII-B-0.0/0.5 - Wet wet to firm, GT-UI-B-1.0/1,5 - GT-UI-B-1.0/1,5 - GT-UI-B-1.0/1,5 - Forton out surface from Inv-pl - Interval for composite day.

JOHII-0.0/0.5 -1.0-4.2 glacial till, redlish light brown, very dense fine sand or clay kny persones throughout

NOTES:	STAFF GAUGE No. and ELEV

STAFF GAUGE READING (FT): 1, 4
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE:

Y-COORDINATE:

4505/48.376"N 87°36/34,466"W

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44.4	
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PROJECT MARKER 650184.LP.06.CS

LII-C SHEET 1 OF 1

	The state of the s
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 200
WEATHER partly sunny, udd, breezy	TOP OF BARGE TO WATER (FT): 1
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 27
ECUIPMENT: Geoprobe w/macrocgar/sumpler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER May Noter	SED THICHNESS TO REFUSAL (FT):
pare: 11/7/11/	

DATE 11/7/14 START: END:			
	SURFACE (FT)	SEDIMERT DESCRIPTION	COLATERIS
PEX	RECOMERY (FT) RECOMERY (FT) WTYPE	SEDIMÈNT TECRURÉ, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOIC, ETC
0_ - - 1_ - 2_ - 3_ -		0-1.2 light brown/redelish brown fine dense sand, true clay 1.2-3.8 glacial till, reddish light brown clay with sand v tiny pebbles throughout	SD-L11-C-0.0/0.5 SD-L11-C-0.5/1.2 - Int-L11-C-1.2/1.7 - Portion off saiface - Interval for composite: SD-L1-QV/0.5
5			

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IOTES:	 STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT):	19
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

X-COORDINATE: 45"05"47.912"N Y-COORDINATE: 87"36"35, 495"W

4	CH2MHILL	PROJECT NUMBER 650184.LLP.06.CS	STATION ID	SHEET 1
-	Of Person some	SEU		o G

The second secon	
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 28.4
WEATHER PORTUGUNY, LOID, DX274	TOP OF BARGE TO WATER (FT): 1, 5
CONTRACTOR: Colonian Engineering	WATER DEPTH (FT): 0 , 9
ECLEPAENT: Geoprobe w/ macrocony/sampler or hand core	TOP OF BARGE TO REPUSAL (FT):
LOGGER: MOUNTY	SED THICKNESS TO REFUSAL (FT):
DATE 11/7/1// OTAMA END	

DATE 11/7/14	START:	80:	
DEPTH BELOW SUFF		SEDMENT DESCRIPTION	COMMENTS
	RECOVERY (FT)	SEDMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOC, ETC
2		0-0.4 light brown fine V. danse sand 0.4-4.8 light reddish brown fine sand interminglet W/ low pl clay Dense	Sp-L11-D-0.010.5 1,0/1.5 1,0/1.5 1,5/2.0 2,5/3.0 3,0/3.5 3,5/1.0 4,0/4.8 Borburn off surfuce Interval for composite SD-L11-0.0/0.5

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION:
SEDMENT ELEVATION: NOTES:

45°05'46.736"N 87°36'351135"W

CH2MHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID LIZ-A
) SI	EDIMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 20, 2
WEATHER: Mondy, Windy, 38"	TOP OF BARGE TO WATER (FT): 3,5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe we macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
DATE-11/2/14 STARTS	SED THICKNESS TO REFUSAL (FT):
DATE-11/2/14 START DATE	

DATE: 11/8/14	START:	END:	
DEPTH BELOW SURF	ACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
	NTION (FT) RECOVERY (FT) A/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOC, ETC
0		0-4,6 light brown fine dense sand, trace for m clony (In pl)	SD-LIA-A-0.010.5 + du 1.0/1.5 1.5/2.0 2.0/2.5 3.5/3.5 3.5/4.0 4.0/4.6 Purtioned OH Surface Interval for composite SD-LI2-0.0/0.5

IOTES:	STAFF GAUGE No. and ELEV: T
	STAFF GAUGE READING (FT): 2,2
	WATER ELEVATION:
	SEDIMENT ELEVATION:

X-COORDINATE: 45°05'49 .446"N Y-COORDINATE: 87°36'33 .292"U

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	CH	77 JH	
-			

STATION ID LIQ-AB SHEET 1 OF 1

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 17, 2
WEATHER: (loudy rundy, 380	TOP OF BARGE TO WATER (FT): 7.5
CONTRACTOR: Column Engineering	WATER DEPTH (FT):
EDURPMENT: Geoprobe w/macrocord-sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGE Menthoter	SED THICKNESS TO REFUSAL (FT):

DATE	211		START:	END:	100	_v .,
DEPTHEE					EDMENT DESCRIPTION	COMMENTS
	PEREIR	ATION (F		SEDMENT TEX COM	TURE, COLOR, RELATIVE DEJISITY OR ISISTANCY, & STRUCTURE	SAMPLEID, OMOC, ETC
Q		31		0-0.3	-	50-L12-13-0.0/0.5- 05/1.0- 1.0/1.5]
2_			3	1.1-3.2	light brown fine sand w/ Impl clay, tirm light brown firm - firm fine-med sand, tall silt	a.0/2,5 a.5/30- 3.0/3.5]
3_				3.2-4.6	light br. extensly	interval for composite
4				ĵa.	· -	Sp-U2-6.010.5
5	9				* -	- - - -
	39	- F			-	-

NOTER:		1
	STAFF GAUGE No. and ELEV	
	STAFF GAUGE READING (FT):	0.0
	WATER ELEVATION	
	SEDIMENT PLEVATION	

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

	CH2MHILL	PROJECT HAMBER 650184.LP.06.CS	STATION D LIZ-C	SHEET 1	OF	1
-		1 9 2		G-	L Pr	

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 16, 2
WEATHER Cloudy, windy, 380	TOP OF BARGE TO WATER (FT): 2,5
CONTRACTOR: Colonson Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w macrocory sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER MOUNTER	SED THICKNESS TO REFUSAL (FT):

DATE 11/8/14	START:	90:	
	ACE (FT)	SEQUENT DESCRIPTION	COMMENTS
PENETR	ATION (FT) RECOVERY (FT) ATTYPE	SEDMENT TEXTURE, COLOR, RELATIVE DEVISITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, GAVOC, EVC
8 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 2 1		0-1,0 Brum med-warse- sand, wood pieces- 0.8-1,0, from 1.0-3.6 light brown fine- dense dry sand	0.5/1.0

IOTES:	STAFF GAUGE No. and BLEV:
	STAFF GAUGE READING (FT): (A.)
	WATER ELEVATION:
	SEDIMENT ELEVATION:

X-COORDINATE: 45°05'18.98"N Y-COORDINATE: 87°36'32.938"U

CH2MHILL	PROJECT MINNER 650184.LP.06.CS	STATION ID LIZ-D
3 Official lines	\$15.01	

PROJECT: Tyco Fip Products LP	TOP OF BARGE TO SED SURFACE (FT): 7
WEATHER CLUMBY, WING, 38"	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Colomon Broingaring	WATER DEPTH (FT):
ECILIPMENT: Geoprobe w mecrocore sympler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER MAINDOW	GED THICKNESS TO REFUSAL (FT):

DATE 11/8/14 STA	SID:		
DEPTH HELOW SURFACE (FT)	SEOMENT DESCRIPTION	COLAIGUS	
PENETRATION (FI) RECOVERY (F	SEDIMENT TEXTURE, COLOR, RELATIVE DEVISITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVCC, ETC	
2 - 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 -	0-2,5 dark brown well- graded med- Coarse send, trace 811t d.5-2.9 wood	80-Lla-D-0.0/0,5 0.5/1.0 1.0/1.5 1.5/2.0 0.0/2.5 Portum off surface Interval for composite- S10-42-0.0/0.5	

IOTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 3.3
	WATER ELEVATION:
80_	SEDIMENT ELEVATION:

Y-COORDINATE: 45° 05'48,469"N
Y-COORDINATE: 87° 36' 32,087"N

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650184.LP.06.CS

SHEET 1

Sediment Core Log

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SHALL COLD, CLUY 30"	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Colemen Engineering	WATER DEPTH (FT): 15-3
EQUIPMENT: Geoprobe w/macrocopy sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGORO Nada No	CENTRACIONE TO PETROAL CENT.

DATE: 11/12/14 START: END: COMMENTS ENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QAVOC, ETC CONSISTANCY, & STRUCTURE 15t word tolyo 0-7.1 fine dense sand SD-L13-A.0016.5 0 4 light bown, trace silt, trace day 7,1-8.5 glacial till 0.5/1,0 1.0/1.5 1.5/2.0. 2.0/25 2.5/3.0 3.5/4.0 424/4.5 4,5/50 5.0/5,5 5.5/6.0 6,96,5 Composite SP-113-0.0/0.5 9 5

OTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): 1, X	
	WATER ELEVATION:	

X-COORDINATE:

SEDIMENT ELEVATION:

450548.032"N

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	CH2	
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65018ALP.08.CS

L13-B

946ET 1 OF 1

	Tyco Fire Pro		TOP OF BARGE TO SED SURFACE (FT): 9, 4		
	ATHER: SYMWY, WINNIN, 37,0 TOP OF BARGE TO WATER FT: 2,7				
COMPACTOR: Cultures Explanation WATER DEPTH (FT): ROUPMENT: Geography Intercepts completed band company of the					
LOGGER	namote	-	TOP OF BARGE TO HERUSAL GEO THICKNESS TO HERUSAL		
DATE		START:	ENO:		
DEPTH MED	W SURFACE O	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	SECULENT DESCRIPTION	COMMENTS	
	MECK	MERKA (N.D.)	SEMMENT RECOURE, COLOR, RELABITE DENSITY OR CONSISTEMENT, & STRUCTURE	SAMPLE ID, CAUCE, ETC	
0 1 1 2 1 1 1 2 1 1 1 1 5 1 1 1 1 1 1 1 1			0-0.7 west sandy sitt, - brown 50th +ace organics 0.7.2.6 brown med- coaver sitty Sand, Some wood tragnosts Soft firm	SD-L13-B-2010.3- 0.5/1.0 1.0/1.5 1.5/2.0- 2.0/2.6 Pertion of switace interval for composite SD-L13-0.0/6.5	
NOTES:			STAFF GAUGE No. and BLEV:		
			STAFF GAUGE REALING (FT): WATER ELEVATION:	1.7	
			SEDIMENT ELEVATION:		

X-COORDINATE:

Y-COORDINATE

45°05'48.005"N 87°36'32.425"N

Start @ 2.5' - 7.5 PROJECT: Typo File Products LP WEATHER SUMY, WILLUSAY, 30 DATE 11/12/14 BIT HEIGHTE, COLOR, HELATHE (IEISHY (IE SWITTEN, ONCE, EIC CONSTRUCT & STREET, 250 5p-L13-B-2,5/3,0 +dup 25-5,5 med-coars Sand, firm, dark-3.013.5 3.5/4.0 4.0/4.5-4.5/5.0 archiv bound, some sitt. 5.0/5,5 5.5 7.55 STAFF GAUGE No. and BLEV: STAFF GAUGE READING (FT): 1/1/5/ WATER ELEVATION: SEDIMENT ELEVATION: 45 05 47 11 1 45° 05 48.005" N X-COORDINATE: 87 36'32. 138' W 87° 36'32. 4851

X Y-COORDINATE:

reed 8 f 50184LP.08.CS PROJECT: Typo Fite Products LP WEATHER SMITH , Illa who wold , 30 CONTRACTOR: Co DATE (1/12/14 ETHIBLOWSHINGE (FI) BALEBURRE COTOR REPURREDENSIA CO Constancy, & Structure PLEID, ONDC, EIC 00 4 0.010.5 0-3,5 light hour 0.5/10 ver dense fine 1.0/1.5 1.5/2.0-3.5-9.0 glaual till reddish light br. clay + sand, ex. dense for tiny pepples 2.5/3.0] 3.0/3.5 GT-L13-C-3.5/4.0 liner shredded-all fill, no phone ghoto STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:

45°05'47.454"N 87"36'33.981"W

Lia-C-a S0184LP.OR.CS PROJECT: Tyco Fire Products LP WEATHER CHUNGING 132 CONTRACTOR: Co DATE 11/11/14 ES TO REFUSAL (FT): 80: THE BROW SURFACE (FI) ETHICHON (FT) er er BIT HORSE, CLOR, RELEME DESILY OR SOUTED, ONCE, EIC Consistanti, a senjune 3.5-9.5 light brown SD-L12-C3.5/4, D - John 3.5 very dense fine said, truce day 4.0/4.5 4.5/5.0-9.5-10.5 dacid till 5.0/5.5 My 154 55/6.0 60/65-6 6.5/7.0 7217,5 815 7.5/8.0 8.0/8.5 8.5/9.0 11 STAFF GAUGE No. and ELEV: 1 STAFF GAUGE READING (FT): 1. WATER ELEVATION: NOTES 7:3 SEDIMENT ELEVATION:

X-COORDINATE:

45°05'48.818 87°36'32,976

Y-COORDINATE:

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650184.LP.08.CS

L13-D

SHEET 1 OF 1

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PROJECT: Tyco Fite Products LP	TOP OF BARBETO SED SURFACE (FT): (1 D. 2
WEATHER: Showy, windy, 320	TOP OF BARGE TO WATER (FI): 2
COMPACTOR: Column Surfaceley	WATER DEPTH (FT);
ECLIPATENT: Geographa wi managementation or hand comp	TOP OF BARGE TO REPUBAL (FT):
LOGGER MAINSON	SED THICKNESS TO REPUBAL (FT):
DATE II/II/IY STATE DATE	

DATE [[/			START:	END:	
DEPTHEE	HI SUIT	ACE (FI)		SEDMENT DESCRIPTION	COMMENTS
	PEREIR	CHOICE (FT)		· 8.9/	
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•	1			10-57 hold brown	50-112-12-12/05
	1			0-3.7 light brown -	00 013 0 01012
				Lance to 1 touch	50-L13-D-0.0/0.5
-				punia To, o. Minist	
	1	1		ا م م م	1 1.0/1 = 3
		1 1		dense to v. touse fine sand	1.0/1,5
12				· _	12/20
			. 1		1.5/2.0
				1	
-		1 1			2.0/2.5
		1 1		l	2.5/3,0-
_					0.0175
				7	1 21/27
-		1		-	3,0/3.7_
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				L	Portion off surface interval or composite
-				P 2	1011001 01 8001700
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-	1				SV-413-0.0/0.5 -
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NOTES:

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

X-COORDINATE:

Y-COORDINATE:

45°05'47.189"N 87°36'32.938"N

Start @ 3.5' - 8.5 L13-D PROJECT: Tyco Fire Products LIP WEATHER SIMILY, WILLIAM LOGGER MULLIOTER DATE 11/12/14 DEPHILE OF STRICE FT TEXTRE COLOR, RELABIE DEIGHY OR PLEID, ONDC, EIC COMPANIEY, & SUBJUNE 3.50 SD-L13-D-35/4,0 3,5-8.0 light brown extremely dense fine sand 4.074.5 4.5/5.0. 5.015.5 6.016.5 6,5/7.0 7.017.5 8.0 85

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	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	

STAFF GAUGE No. and ELEV:

STAFF GAUGE NG. and ELEV:

WATER ELEVATION:

SEDMENT ELEVATION:

X-COORDINATE:

45" 05'47.040"N

Y-COORDINATE:

17° 36'32.838 W

O c	H2MH	LL	650184.LP.06.CS	14-A SHEET 1 OF 1
PROJECT: T	yco Fire Produc	suP.	TOP OF BARGE TO SED SUI	REACE SED: 12 4
	V. Al Palack		132 TOP OF SARGE TO WATER	
CONTRACTO			WATER DEPTH (FT):	7
EQUIPMENT:	Geoprobe w/	neciocolo:	rempler or hand core TOP OF BARGE TO REPUBL	上 (FT):
LOGGER: M	4		SED THICKNESS TO REFUS	AL(FI):
	SURFACE (FI)	START:	SEOMETRIESCHPRON	
	NETRATION (FT	10	Additional agencies and and an annual	COMMENTS
	RECOVE	RY (FI) MYPE	SEDMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVOIC, ETC
0			0-lid brun med-coarse sand, some silt, firm 1.2-4.0 hept brun fine dense sand	80-L14-A-0.0/0.5 0.5/1.0 1.5/2.0 1.5/2.0 1.5/3.6 3.0/3.5 3.5/4/12 Porture of surface Interved for composite SD-44-0.0/0.5

	ià -
NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (F1): WATER ELEVATION: SEDIMENT ELEVATION:

X-COORDWATE:

V.COOPRIMATE.

45°05'47,463"N 87°36'32,420"W

Start @ 4.0'-9.0 LIY-A STOTE STATE OF THE CONTRACT SHEET 1 PROJECT: Tyco Fire Products LP WEATHER WINDY COLD, due TOP OF BARGE TO REPUBAL (FT): STO REPUBAL (FT): DATE: 11/12/11 THE DESCRIPTION (FI) ECONERY FD BIT TEXTREE, COLOR, RELATINE DESIGNY OR SWIFLE ID, CNCC, EIC CONSISTENCY, & SHRICTURE 4.00 0-20 SP-L14-1-4.0/4.5 4.0-6.0 bown med to coarse sand, trace silt, firm. 6.0-7.6 light brown fine dense sand 4.5/50 archil 5.5/6.07 6.0/6.5 6.5/7.0 7.0/7.6

-		- 1		-
WIES:	 STAFF GAUGE No. and ELEV:	11		
	 STAFF GAUGE READING (FT):			_
	WATER ELEVATION:			
	SEDIMENT ELEVATION:			
	-	. نا		
		11/	and the state of the state of	

Y-COORDINATE: 45 05 47.564 "N Y-COORDINATE: 37 36 32.264" W

CH2MHILL
CH2M

STATION ID LIY-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 13,3
WEATHER: Shary Juny 4 325	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):
LOGOTTO LA BORRA	SED THICKNESS TO BEELISM JED.

DATE: 11/11/14 START: END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE SD-L14-B-00/D.5-200P boom fine to coarse sand, well graded, firm,
trace sill -0-01.8 0_ 1.0/1.5 1.5/2.0 1.8-4.4 light brown, -fine sand, trace silt, dense.

NOTES:				JGE No. and ELE GE READING (F		11		
			W	ATER ELEVATION	ON:			
			SEDI	MENT ELEVATION	ON:			

x-coordinate: 45°05' 47,031 y-coordinate: 87°36'32.318

	950184LP.08.CS	4-B SHEET 1 OF 1
CH2MHILL		करण है। यह करण है। इ.स.
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED BUR	Accord 16
WEATHER SWHAY , wild, are	TOP OF BARGE TO WATER &	n: 2.7
CONTRACTOR: Cultural Brightening	WATER DEPTH (FT):	44.7- 11.0
LOGGER MAINTY	sumpler or hand case TOP OF BARBETO REFUSAL SED THICHNESS TO REFUSA	
DATE 11/12/14 STARTE	BiD:	
PEREIRODO (FI)	SEDIMENT TRESCRIPTION	COLAMBIES
STALE	SÉDMENT RÉCRURE, COLOR, RELAINE DÉIRRY OR CONSISTANCE, à STRUCTURE	SMIFLE ID, CAUCE, ETC
4,5 -	4.5-9.2 Ight brown -	Sb-L14-B-4,5/5.0
	4.5-9.2 light brown - ex dense fine- sound, track	5.5/6.0 aprot
		6.5/70
2		7.5/8.0
		7.0/75 7.5/8.0 8.0/85 8.3/9.2
3		
		1 1
]
25-	2 22	1 1
		1
NOTES:	STAFF GAUGE No. and ELE STAFF GAUGE READING (FT WATER ELEVATIO SEDIMENT ELEVATIO	OF THE PROPERTY OF THE PROPERT
	X-COORDINAT	45 05 47.088" N

CH2MHILL	859184.LP.06.CS	STANDAL D	14-C SHEET 1 OF 1
ATHER: SMANY IMMAN INTRACTOR COLORS BUILDING C	32 The samples or hand come T	OP OF BARBETO SED BUR OP OF BARBETO WATER (I INTER DEPTH (FT): OP OF BARBETO REFUSAL SED THICKNESS TO REFUSA	n: 2. +
THRELOW SURFACE (FT)	SEDMENTO	SCRIPTION .	COMMENTS
PENETHICION (FT) NECONERY (FT) NTYPE	CONSISTANCI.		SMIPLE ID, ONGC, EIC
	O-1: 4 day SiH Sa +	L brown ry med-gr .rd, firm, race organics	SD-U4-C-0.0/0.5 0.5/1.0 1.0/1.4 Porturn off Sour Fail Interval for composit S10-U4-0.0/0.5

JIES:	Ale California III de la California de Calif	STAFF GAUGE No. and ELEV:
	May se an day of the	STAFF GAUGE READING (FT): () WATER ELEVATION:
	first push no recovery	SEDIMENT ELEVATION:
	round ruch no receivery	

second rush no recovery move a complet forer,

X-COORDINATE:

CORDMATE

45°05'46.875 87°36'31.2766

Start @ 1,5'-6.5 U4-C. S0184LP.OB.CS SHEET 1 OF 1 PROJECT: Typo File Products LP 2.7 DATE 11/12/14 STORE SMPLE ID, ONCO, EIC 100 1.5-2.3 dark brown silty-80-L14-C-15/2.0 2.0/2.5-2.0/2.5 | Grohn + 2.5/3.0 | Grohn + 2.3-51 dark brown med-warse 3.0135 sand, trace 5,1-5,2 Silt 5,1-5,2 light by fine dense sand 3.5/4.0 4.014.5 4.5/5,2 1

-		e e	-	
DIER:			STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:	71
			X-COORDINATE:	45' 05 46 922'N 89° 36' 31.324" W

PROJECT: Ty	PROPRIETO LP		RGE TO SED SURFACE (FT):	7,4	
LOGGER MA	unotur	,	REETO REFUSAL (FT): NEES TO REFUSAL (FT):		_
	UNFACE (FT)	T: BID: SEDMENT DESCRIPTION		COMMENS	1
PER	ETRICION (FT)			SAMPLE ID, OMOC, ETC	
1		0.0-2.8 brown coares so well grad some litt trace or 2.8~3.0 wood pr	end, led, tiesilt, ganics	114-D-0.0/0.5 1.0/1.5 1.5/2.0 2.0/2.8 mel off surface rval for composite -U4-0.0/0.5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
\$\frac{1}{2}					
NOTES:		STAFF GAUG	GE No. and ELEV: () RE READING (FT): () // () THER ELEVATION: IENT ELEVATION:		_
			X-COORDINATE: Y-COORDINATE: S	705/46.477	

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Start C 3.0'-8.0' L14-D 50184LP.OS.CS SEET 1 PROJECT: Tyeo Fire Products LP WEATHER FURNY, LOLD, CLAY 5.0 DATE 11/12/14 START: PHIELOWSURFACE (FI) ERLUN(FI) ECONERY (FI) ENT INCUME, COLOR, HE ANNE DENNIY OR CONSISTANCY, & STRUCTURE SMIFLE ID, CAUCE, EIC 3.00 3-5,5 boom med-SD-L14-D-30/3.5 coarse sand, 3.5/40 - (ar hust 4.6/4,5 - as well as the report trace silt, 5.5-6.6 light brown fine dense sand 4.5/5.0-5.0/5.5 55/6.0 8.0 5

NOTES: STAF

STAFF GAUGE No. and ELEV: 1
STAFF GAUGE READONS (FT): 1
WATER ELEVATION:
SEDIMENT ELEVATION:

X-COORDINATE: 45 05 46.442 N Y-COORDINATE: 87 36 30.875 U

0	CH2MHILL
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STATION ID L 15 - A

SHEET 1 OF 1

SEDIMENT CORE LOG

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):
Manua /a	

LOGGER: MULLINGER SED THICKNESS TO REFUSAL (FT): DATE: 10-22-14 START: END: SEDIMENT DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE も SD-L15-A-0,0/0.5 0-0.6 silly fine-med sand, brown, 1,0/1.7 1.5/2.0 - archiv 0.6-4,0 brown warse tomed sand, truce sit, (not sampled) 2.0/2.5 2.5/3,0 Portioned off surface interval for composite SD-C15-0.0/0.5

NOTES:		 STAFF GAUGE No. and ELEV:	T	- 1
		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
A STATE OF	

STATION ID LIS-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (F	m: 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: Malloter SED THICKNESS TO REFUSAL (FT): DATE: 10-22-14 END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 80-LIS-13-0.010.5 0-1.0 fine to med sand, 0.5/1.0)) brown, soft to

from trace silt
twod

1.0-4.0 fine to coarse

Sand, Soft to

firm, trace wood

to silt 1.0/1.5

	 L	 L		
OTES:			STAFF GAUGE No. and ELEV:	TI
			STAFF GAUGE READING (FT):	1.8
			WATER ELEVATION:	
			SEDIMENT ELEVATION:	

x-coordinate: 45°05'48,476"N y-coordinate: 87°36'28,971"M

0	CH2MHILL
100000	

STATION ID

SHEET 1

March Control	STATE OF THE OWNER,	Manager and Company	Secretary of the second	Section with the
			α DE	LOC
3 E 111				
		A 100 A		

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SUNNY 50°	TOP OF BARGE TO WATER (FT): 2.5	Ξ
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 4.5	
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):	
LOGGER: May Noter	SED THICKNESS TO REFUSAL (FT):	

DATE: 10-22-14 START: END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE 0-4,5 fine to coarse sand, some sittem, brown SD-LIS-C-0.0/0,5 0.5/1.0 1.5/2.0
2.0/2.5
2.5/3.0 aroniv 3.0/3.5
3.5/4.0
4.0/4.5 Portioned off surface interval for composite SD-L15-0.010.5

		_
NOTES:	STAFF GAUGE No. and ELEV:	- 22
	STAFF GAUGE READING (FT): 7. S	_
	WATER ELEVATION:	-
	SEDIMENT ELEVATION:	-

x-coordinate: 45°05'48.705"N y-coordinate: 87°36'27.917"W

CH2MHILL

PROJECT NUMBER 650184.LP.06.CS STATION ID

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	8.0'	
WEATHER: SUNNY 500	TOP OF BARGE TO WATER (FT):	2.51	
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT)	5.51	
EQUIPMENT: Geoprobe w macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):		
1 An . A. (a of			

LOGGER: MAINITO SED THICKNESS TO REFUSAL (FT): DATE: 10-22-14 START: END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 0-3.5 Brown well graded sand w/10% silf SD-L15-D-0.0/0.5 0,5/1,0 archive + trace wood chips, firm 1.0/1,5 1.5/2.0 -2.0/2.5 2.5/3.0 3.0/3.5 Portron off surface -interval for composite SD-L15-0.0/0.5

NOTES	 	STAFF GAUGE No.	and ELEV: T(
		STAFF GAUGE REAL	DING (FT): L. 🛠 👚	
		WATER EL	EVATION:	
		SEDIMENT EL	EVATION:	

45°05'48. 203"N X-COORDINATE: Y-COORDINATE: 87°36'28.167"W

© CH2MHILL	PROJECT NUMBER STATION ID 650184.LP.06.CS	2-A SHEET 1 OF 1				
GHZIVIIIIE	SEDIMENT CO	The second secon				
PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):						
WEATHER: TOP OF BARGE TO WATER (FT): 2.5						
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):	5.5'				
EQUIPMENT: Geoprobe w/(macrocore						
DATE: 10/23/14 START:	SED THICKNESS TO REFUSA END:	L (FT):				
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_	0-410 brown fine-warst sand, trace sitt, trace wood. firm	SD-LILO-A-0.0/0.5 - 0.5/1.0 - 1.0/1.5 - 1.5/2.0 - ardhiv 20/2.5 - 2.5/3.0 - 3.0/3.5 - 3.5/4.02 Particular of surface interval for composite SD-LILO-0.0/0.5 /				
NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION:					
	SEDIMENT ELEVATION: X-COORDINATE: Y-COORDINATE:	45° 05 47.805" N 87° 36 29.246" W				

Att1_Sediment Log Template.xls

0 -	H2MHILI	PROJECT NUM 650184.LF		6-B	SHEET 1	OF 1
-	HZIVI HILI		SEDIMENT			
ROJECT: 1	Tyco Fire Products L		TOP OF BARGE TO SED	SURFACE (FT):	9114	
VEATHER:			TOP OF BARGE TO WAT		2.5 14	
	R: Coleman Engine		WATER DEPTH (FT):		6.5 Ft	
		ocore sampler or hand				
OGGER: <i>[</i> ~ ATE:[<i>0</i> /2-	louhotev 3/14 sta	RT: END:	SED THICKNESS TO REI	USAL (FT):		
	V SURFACE (FT)	NI. END.	SEDIMENT DESCRIPTION		COMMENTS	
PE	ENETRATION (FT) RECOVERY (F	SEDIMENT	TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE		SAMPLÉ ID, QA/C	C, ETC
0_		0-2.2	bown fine to med sand, some silt, trace	- 50-	lle-B-c	0.0/0.5-
-			med sand some		C	10/10
-			self tours	-	,	1/15
-			Sitt Time	-	;	2/2 -
1-			wood (wood at bollom of core)	- Porto	ned off si Nul for Ci	3/2.0-1
-			(wood at bollow of	- mer	VII LA	WHACE T
-			core)	- cn	-111 2	ompostic]
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1.5	1 1			7		-

TES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 1,5
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45° 05' 47.428" N y-coordinate: 87° 36' 28, 419" W

CH2MHILL	650184.LP.06.CS STATION ID	-C SHEET 1 OF 1
	SEDIMENT CO	
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SUR	FACE (FT): 7
VEATHER:	TOP OF BARGE TO WATER (
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):	6.5
QUIPMENT: Geoprobe w/ macrocore		. (FT):
OGGER: Maillotes	SED THICKNESS TO REFUSA	L (FT):
DATE: 0/23/14 START:	END;	
PENETRATION (FT)	SEDIMENT DESCRIPTION	COMMENTS
RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QG, ETC
0_ - 1_ - 2_ - 3_ - 4_	0-3,4 brown fine-current vell graded sand, - trace silt, trace wood, trace organics soft-firm	SD-LILE-C-0.0/0.5 - 1.0/1.5 - 1.5/2.0 - 2.0/2.5 - 2.5/3.0 3.0/3.4 A Portuned off surface: Interval for composite- SD-LIB-0.0/6.5

OTES:	STAFF GAUGE No. and ELEV: 1	
	STAFF GAUGE READING (FT): 1.5	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	_

x-coordinate: 45°05'46, 898" N y-coordinate: 87°36'29,441" W

0	CH2	WHILL	PROJECT NUMBER 650184.LP.06.CS	STATION ID	0-D SHEET 1 OF 1	
-			SE	DIMENT CO	RE LOG	
PROJECT	: Tyco Fire	Products LP	TOP OF BARGE TO SED SURFACE (FT): 7,5 F4			
WEATHER	:			F BARGE TO WATER (F		
		man Engineering		R DEPTH (FT):	5.0 H	
				F BARGE TO REFUSAL	· · · · · · · · · · · · · · · · · · ·	
LOGGER:		START:	SED T END:	HICKNESS TO REFUSA	L (FT):	
DEPTH BELO			SEDIMENT DESCRI	PTION	COMMENTS	
	PENETRAT	ION (FT)			- SOMMENTS	
	A	ECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RE		SAMPLE ID, QA/QC, ETC	
			CONSISTANCY, & STF	NUCTURE		
0_				1	SN 11 -20 = -15 <	
°-			0-0.6 fine sand W150% Solt, do	w Silt -	50-lile-0-6.0/0.5 10.5/1,0	
-			W/50%	organics, -	0.5[],0	
-			Soft do	wk brown -	1 1.0/1.5	
-						
1-			0.6-3.2 will gr	adea tine _	1.5/2.0	
-			0.6-3.2 well gr	sand, trace	2.0/2.5	
_			silt, tr	we overniks	1 2.5/3.2	
_	ı		Confl. h	nue organks	01 01	
_			2017/0	nun _	Parties of composite	
2_					Surface macroal	
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OTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 1,5
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45°05'46.644"N y-coordinate: 87°36'29.804"W

0	CH2MHILL
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STATION ID LIZ-A

SHEET 1 OF 1

CH2MHILL					
O GIRLIAN NEE	SEDIMENT CO	RE LOG			
ROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURF				
EATHER: SUNNU 50	TOP OF BARGE TO WATER (FT): 2.5				
TRACTOR Coleman Engineering	WATER DEPTH (FT):	4.5			
JIPMENT: Geoprobe w/macrocore	sampler or hand core TOP OF BARGE TO REFUSAL	(FT):			
GGER: Mainoth	SED THICKNESS TO REFUSAL	L (FT):			
TE: 10-22-14 START;	END:				
PTH BELOW SURFACE (FT)	SEDIMENT DESCRIPTION	COMMENTS			
PENETRATION (FT) RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC			
0	0-3.9 Brown med- coarse sand, well graded, some wood chips throughout, trace sift	8D-L17-A-00/6.5 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5 3.5/3.9 Portum off surface interval for composite SD-L17-0.0/0.5			

		_	
		STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT):	1.8
		WATER ELEVATION:	<u> </u>
		SEDIMENT ELEVATION:	
			STAFF GAUGE READING (FT): WATER ELEVATION:

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

	CH2MHILL
-	

STATION ID

SEDIMENT CORE LOG

		- 7
PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (F	T): /
WEATHER: SWINU , SU	TOP OF BARGE TO WATER (FT):	7.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):	4.5
EQUIPMENT: Geoprobe w/ Gacrocore ampler or hand core	TOP OF BARGE TO REFUSAL (FT):	
LOGGER Machinery	SED THICKNESS TO REFUSAL (FT):	

LOGGER: Machotery DATE: 10-22-14 END: START: SEDIMENT DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QAVQC, ETC #/TYPE CONSISTANCY, & STRUCTURE 0-07 sandysilt, soft, SD-U7-B-0.0/0.5 wood chips, brown
0.7-10 silty med-sand
Soft, wood chips
brown
1.0/1.5
20/2.5
25/3.025/3.0Sand, trace silt,
firm
Fortion off surface
interval for composite
SD-L17-0.0/0.5

STAFF GAUGE No. and ELEV: NOTES: STAFF GAUGE READING (FT): 1,8 WATER ELEVATION: SEDIMENT ELEVATION:

X-COORDINATE: 45°05'48.195"N

Y-COORDINATE: 87º36/26.377"W

CH2MHILL	0	CH2MHILL
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STATION ID L17-C

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SUMM 50"	TOP OF BARGE TO WATER (FT): 3.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 5.5
EQUIPMENT: Geoprobe w macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
At a la Car	OFO THIOMIECO TO DEFINE A AFTER

DATE: 10-22-14 START END: SEDIMENT DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE 0-0.8 fine-med sand, bown, trace silt, firm 1.011.5 08-35 med-coarse 1.5/2.0well graded sand, some sit, trace wood firm, brown 2.0/2.5 2.5/3.0 3.0/3.5 Portum, off surface Interval for composite SD-LIT-00/0.5

NOTES:	STAFF GAUGE No. and ELEV:	
	 STAFF GAUGE READING (FT):	(,8
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45°05'47.951"N y-coordinate: 87°36'27.419"W

	CH2MHILL
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STATION ID LIZ-D

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	9.0 Ff	
WEATHER: SWINN 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):		

SED THICKNESS TO REFUSAL (FT): LOGGER: Marhofer DATE: 10-22-14 END: START: SEDIMENT DESCRIPTION COMMENTS DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE SD-47-D-00/0.5 0-0.5 bown fine-med well graded sand, trace silt, firm 0.5/10 Grahive 1.0/1.5 U.5-4,0 brown fine-warse well graded sand, - trace wood, firm -15/2.0 -20/2.5 25/3.0 3.0/3,5 35/4.0 Portion off surface interval for composite 80-47-0.0/0.5

	<u> </u>			
NOTES		_	STAFF GAUGE No. and ELEV:	
122			STAFF GAUGE READING (FT): 1,5	_
			WATER ELEVATION:	
			SEDIMENT ELEVATION:	_

x-coordinate: 45°05 47.557" N y-coordinate: 87°36'26.914" W

CH2MHILL

STATION ID. A SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SMM1/4, breety 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):
14316 614	

LOGGER: MAINDY SED THICKNESS TO REFUSAL (FT): DATE: 10-21-14 START: END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 0.0-0.1 sandy dark I rown silt, soft 0.1-2-2 dark brown med-coarse sand, trace silt, firm 50-48-0.0/0.5

NOTES: we catcher pushed
up into core @
surface
(second try, first core

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

X-COORDINATE: 45° 05' 47.029" N Y-COORDINATE: 27° 36' 27,484" W

O CH2MHILL	PROJECT NUMBER S	LIG-13 SHEET 1 OF 1
CH2WIHILL		IENT CORE LOG
OJECT : Tyco Fire Products LP	TOP OF BARC	SE TO SED SURFACE (FT): 9(D)
EATHER: GLWY 450	TOP OF BARG	GE TO WATER (FT): 9 2.5
ONTRACTOR: Coleman Engineeri	WATER DEPT	TH (FT): 6.5
OUIPMENT: Geoprobe w macroo		GE TO REFUSAL (FT):
TE: 10-21-14 STAR		ESS TO REFUSAL (FT):
PTH BELOW SURFACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (FT) RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE CONSISTANCY, & STRUCTURE	
0_	6-6-2-9 brown me	dSD-L18-B-0.0(0.5
-	Ord del block in	1, 0.5/1,0
-	coarse sand	0.9110
-	trace shells	1.0/1.5
1=	firm	- 1.5/2.0
	2	
0.4		a.0/a.5
		2.5/2.9
1 e 1		
2		- Portion off surface
: i-		- interval for composite
-		= 510-L18-0.0/05
: -		
3_		
-		-
-		-
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-		=
4_		-
-		-
-		-
-		-
-		-
5		-
-		-
-		-

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

STAFF GAUGE No. and ELEV: T STAFF GAUGE READING (FT): U.S.
WATER ELEVATION: SEDIMENT ELEVATION:

X-COORDINATE: 45°

Y-COORDINATE:

45°05'46.775°N 87° 36'26.987°W

	CH2MHILL
-	ES/4

STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 15		
WEATHER: SUNNY , 400	TOP OF BARGE TO WATER (FT): 3,5	_	
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 6.0		
EQUIPMENT: Geoprobe w macrocorp sampler or hand core	TOP OF BARGE TO REFUSAL (FT):	_	
LOGGER: MALINDERN	SED THICKNESS TO DEFLICAL VED.	-	

DATE: 10 21-14 DEPTH BELOW SURFACE (F1) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 0-6.5 dark brown silty - SD-L18-C-0.0/0.5

med-grain Sand,
Soft, some organics.

0.5-2.0 brown med-coarst portion off surface sand, trace silt,
firm - SD-L18-0.0/0.5

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*\(\sigma\)

CH2N	VIHILL	PROJECT NUMBER STATION 650184.LP.06.CS	S-D SHEET 1 OF 1
1000 000		SEDIMENT	CORE LOG
JECT: Tyco Fire		TOP OF BARGE TO SE	D SURFACE (FT): 7.5
THER: SUNN	U 400	TOP OF BARGE TO WA	0 9 4 H
TRACTOR: Colem	nan Engineering	WATER DEPTH (FT):	5
		ampler or hand core TOP OF BARGE TO RE	FUSAL (FT):
GER: (MALIN)		(SED THICKNESS TO R	EFUSAL (FT):
E: 10-21-14	START:	END: 10/22/14	
H BELOW SURFAC		* SEDIMENT DESCRIPTION	COMMENTS
	COVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OF	20
	#/TYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_		0-0.5 bown Silty med-	- SO-L18-D-0.0/6.5 -
_		Loarse Sand W/	- 5/1.D
_		wood pieces, sof	+- 1.0/1.5
_		to firm	10/10
1		70 71 1	Portion A 15/20
` -		1012-and prom med-co	ore Portion of Surface- interval for composite 50-48-0.0/0.5
-		Sand, trace silt	Inter out for composite
-		firm to loose	1 - 50-48-0.0/0.5
-			- 150-L18-0.0/0.5-D
-			- 4 500018 0.010,50
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7.5			
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-			1
-			-

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″ N

NOTES: _

0 сна	2MHILL	PROJECT NUMBER 650184.LP.06.C	STATION ID	LI9-A SHEET 1 OF	1
•			SEDIMENT	CORE LOG	
ROJECT : Tyco F	ire Products LF		TOP OF BARGE TO SEE	SURFACE (FT): 8	
VEATHER:			TOP OF BARGE TO WA	ER (FT): 2.5	
ONTRACTOR: Co	leman Enginee	ing	WATER DEPTH (FT):	5,5	10.15(0)16
	probe w/ macro	core sampler or hand core	TOP OF BARGE TO REF		
OGGER: ATE: 10-22-	14 STAI	IT: END:	SED THICKNESS TO RE	FUSAL (FT):	
EPTH BELOW SURF	7 1		ENT DESCRIPTION	COMMENTS	
PENETR	ATION (FT)				
	RECOVERY (F	SEDIMENT LEXITHE	, COLOR, RELATIVE DENSITY OF ANCY, & STRUCTURE	SAMPLE ID, QA/QC, ET	rc :
0_		0-3 > day	K barren mod	0-SD-L19-10-0.0	10.5
-	<u> </u>	0 3/10 /00	ver south con	Ne- 11 0.5	:/1 n !
2		Coa	rse saud, sm t, firm-lose		
12		3 201	1, try m - 100 Se	1.0	/1.5
1_				1,5	120
				2.0	12.5
7				2.5	,
-	* ±			Portion of a city	100
_				- Partism off surf. - Interval for com	
				- INFRANCE THE CON	posite
2_				- SO-L19-0.0/6	5 -
-				-	-
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NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:				
	Y.COOPDINATE.	450 05	-1 111.	630"	N

Y-COORDINATE: $87^{\circ}36^{\circ}25.968^{\prime\prime}$ W

CH2MHILL

SHEET 1 OF 1

SEDIMENT CORE LOG

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):		
LOCCED:			

DATE: 10-27-14	START:	END:	(1 //	
DEPTH BELOW SURFACE		SEDIMENT DESCRIPTION	COMMENTS	l
PENETRATION	OVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC	
0_ - 1_ 2_ - 3_ - 4_ - 5_		0-0.6 known fine-ined love Sand w/ 25% silt + some organics 6.6-3.2 ma brown med- coarse sand w/ trace silt, losse to firm	SD-L19-B-0.0/0.5- 1.0/1.5 1.5/2.0- 2.5/3.2 Portioned of surface interval for composite SID-L19-0.0/6.5	Zaroh

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	PC SHEET 1 OF 1
	SE	DIMENT CO	RE LOG
ROJECT: Tyco Fire Products LP	TOP O	BARGE TO SED SURI	FACE (FT): 80
EATHER: SUNNY, Cally	40° TOP O	BARGE TO WATER (F	
ONTRACTOR: Coleman Engineerin	1	DEPTH (FT):	5,5
UIPMENT: Geoprope w/ macroco	sampler or hand core TOP O	BARGE TO REFUSAL	(FT):
GGER: MarWier TE: 10-27-14 START		IICKNESS TO REFUSA	L (FT):
PTH BELOW SURFACE (FT)	END: SEDIMENT DESCRIP	TION	COMMENTS
PENETRATION (FT)			- Commercial Control
RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, REL CONSISTANCY, & STRI		SAMPLE ID, QA/QC, ETC
0_	0-3.4 brown m	ed-coarse -	SD-L19-C-0.0/0.5
-	sand, tra	10 SIF -	1 0.5/1.0
-	Sara la	000	1 1.0/1.5
-	Firm to 1 Silt layer (dar) Soft) from	-	
1_	Silt layor (dar)	Clown, -	1,5/2,0
-	Soft from	30-20 -	2.0/2.5
-		-	
-		_	1, 2,5/3,0
-		_	3.0/3,4
2_		-	a see all and
_		_	Portion off surface interval for composite
_			interval to composite
			SD-49-0.005
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NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT): 7:5

WATER ELEVATION:

SEDIMENT ELEVATION:

x-coordinate: 45°05'45.841"N y-coordinate: 87°36'26.100"N

CH2MHILL

STATION ID

SHEET 1 OF 1

SEDIMENT GORE LOG

SED THICKNESS TO REFUSAL (FT):

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 6, 5
WEATHER: SUNNY COLM/40°	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 4,0
EQUIPMENT: Geoprobe w/ mecrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):

LOGGER: MUINATOR

DEPTH BELOW SURFACE (FT) PENETRATION (FT) RECOVERY (FT) ATTYPE SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE SAMPLE ID, QAYOC, ETC SUPPRINTED TO STRUCTURE SAMPLE ID, QAYOC, ETC SUPPRINTED TO SUPPRI	DATE: 10-22-14	START:	END:		
RECOVERY (FT) NTYPE SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE SAMPLE ID, QAVOC, ETC				COMMENTS	
bown set sand 1- 1- 1- 1- 1- 1- 1- 1- 1- 1		RY (FT)		SAMPLE ID, QA/QC, ETC	
	3_		0-4,0 fine to coarse bown st sand w/trace sitt	0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.0/3.5	ar Min

STAFF GAUGE No. and ELEV: TO STAFF GAUGE READING (FT): 1.5
WATER ELEVATION: SEDIMENT ELEVATION: NOTES:

x-coordinate: 45°05'45,369"N y-coordinate: 87°36'25,292"N

	CH2MHIL	1
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SHEET 1 OF 1

SEDIMENT CORE LOG

National Association of the Contract of the Co	
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 253
WEATHER: SUMMY, WORY, 40	TOP OF BARGE TO WATER (FI): 25
CONTRACTOR: Column Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe withacrocons sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: MAINTON	SED THICKNESS TO REFUSAL (FT):

DATE: \/			START:	END:	
DEPTH BELL				SEDIMENT DESCRIPTION	COMMENTS
		TION (FT		-	
	1	RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	
			WTYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, DAVOC, ETC
Q_				0-1.5 light brown moist -	80-L20-A-0.0/6.5 -
l J					,
		j		fine firm sand,	17 0.5(1.0 -
	'				_
i -				trace Inv-pl. clay -	
1_1_		l		1,1000	
				11.5-11.10 light have along	1.5/2.0 -
-	l '	1		I TO THE TEST DISCORT COM, -	1 2000 -
-		l		plasticity -	2.012.5
				1.5-4.6 light brown day, -	2,5/3.0 -
4				SOLY to FLYM, CONCITE.	d,5/3.0 -
				Increasing w/ depth Trace live sand -	20/20 -
2_		l		Increasing wi donth, 1	3,0/3/5
	ŀ	l		Trace divide soul	2611/
				11.00 11.00 3000	3.5/4.0 -
-		l		-	4.0/4.6-
-				· _	9.019.0
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3-			l	_	Interval for composite -
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low recovery un first	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:	1.4
my	X-COORDINATE:	45°65'46.471"A

Y-COORDINATE: 8703635.525

0	CH2MHILL

STATION ID

SHEET 1 OF 1

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 27, 3
WEATHER COUNTY, MEZI, 40	TOP OF BARGE TO WATER (FI): 25
CONTRACTOR: Colorsen Engineering	WATER DEPTH (FT):
EQUIPMENT: Geogrobe w macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: MAY TO	SED THICKNESS TO REFUSAL (FT):
DATE: 11 5/14 STARTS END	

The state of the s			
PTH BELOW SURFAC		SEDIMENT DESCRIPTION	COMMENTS
PENETRATI	ECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAYOC, ETC
2		0-6.7 light by soft low plasticity clay, some fine sand 0.7-1.7 light by fine dayst sand, some day- 1.7-2.6 light by firm to allow clay, some fine sand, med and allow plasticity. 2.6-4.0 light by fine will some clay throughout	SD-L20-B-0.010.5 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.0 3.5/4.0 Portion off su (face interval for composite SD-L20-0.0/0.5 1 dup

NOTES:	STAFF GAUGE No. and ELEV:
_	STAFF GAUGE READING (FT): \
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: 45°65'45,992"N y-coordinate: 87°36'35,060"

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STATION ID LAD-C SHEET 1 OF 1

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SUIJNY, LYCERY 400	TOP OF BARGE TO WATER (FT);
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe set macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: WAINDIN	SED THICKNESS TO REFUSAL (FT):
DATE-U/4/19 START. SUD.	

DATE: 1/4			START:	END:	
DEPTH BELL	_			SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (FT)					
		RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	
1 1		1	WIYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, CAVDC, ETC
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! <u>"</u>				0-1.5 the light by fine	- 80-120-C-0-010.5 -
	'			0 10 100 12 0 10	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4				SNIW 1000125-41411	12 12 03/10
			1	sand, moist, firm	1 1 1 2
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<u> </u>			l	his condidince	1,5/20
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					7 2.02.5
4			Ì	2.0-3.4 light br. time	3/10/0
-			1	sand, dense,	25/3,0-
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NOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): \(\bar{\cappa}\)	, 1
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	
	OLDINGTH ECENTION.	
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X-COORDINATE: 45° 05 '46, 333"N Y-COORDINATE: 87° 36 '34.333"W

CH2MHILL	

PROJECT NUMBER	
PROJECT NUMBER 650184.LP.06.C	S

STATION ID LAD -D SHEET 1 OF 1

SEMMENT CORE LOG

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TO SED SURFACE (FT): 24
TO WATER (FT): 1, 5
(日):
TO REFUSAL (FT):
IS TO REFUSAL (FT):

DATE: 1)			START:	END:	
DEPTH 883.	OW SURF	ACE (FT)		SEDIMENT DESCRIPTION	COMMENTS
	PENETR	TION (FT)	<u>-</u>	
		RECOVE			
	i '		MTYPE	SEDMENT TEXTURE, COLOR, RELATIVE DENSITY OR	SAMPLE ID, QAVOC, ETC
				CONSISTANCY, & STRUCTURE	
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NOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): 1, 17	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45°05'44.474"N y-coordinate: 87°36'33,653"W

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	CH2MHILL

STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT:	Tyco Fire	Products LP
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TOP OF BARGE TO SED SURFACE (FT): 21,5
TOP OF BARGE TO WATER (FT): 2.5

WEATHER: (120 mg m/mdg 3 320C

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

WATER DEPTH (FT):

LOGGER: MANORY

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

	DATE: 11- 1-	[- 12]	START: 3:30	DEND:
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DEPTH BIELOW SURFACE (FT)		D.	SEDMENT DESCRIPTION	COMMENTS
	PENETRATION (FT)			
	RECOV	WIYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, OA/OC, ETC
1		3.a	to viery dense, fine sand, trace - [our plasting clast	SD-La1-A-0.0/0.5 11 11 1.0/1.5 1.5/2.0 2.0/2.5 2.5/3.a 2.5/3.a Pertinal off surface interval for composite SD-La1-0.0/0.5

IOTES:	STAFF GAUGE No. and ELEV: T1
	STAFF GAUGE READING (FT): 1/8
	WATER ELEVATION:
	SEDIMENT ELEVATION:

X-COORDINATE: 45°C5"46.043"N Y-COORDINATE: 27°36'30,834"N

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4, 313	
	CH2MHILL
-	

STATION ID -21-13 SHEET 1 OF 1

SEMILENT CONTENTS

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 10 -1
WEATHER: (Isibalwinks 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: My: hole SED THICKNESS TO REFUSAL (FT): DATE: It fulled STADT-

	= 11/4/14 START:						
DEPTH BEL	LOW SURFACE (FT)			SEDIMENT DESCRIPTION	COMMENTS		
		TION (FT					
		RECOVE	RY (FI) MTYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, DAVIC, ETC		
2		J.J.	3.3	0-1.7= Brown, well graded median - to course Sand, Saine Silt, dark brown sitt lense @ One, firm 1.7-3.2= Light brown, firm, fine to predian sand, trace silt.	SD-La1-B-0-0/0.5 0.5/1.0 1.0/1.5 1.5/20 2.6/2.5 2.5/3.2 Portion off surface introd for composite SD-La1-0-0/0.5 duplicate		

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

X-COORDINATE: 45°C5'45,67 4°N Y-COORDINATE: 57°36'31,730"W

0	CH2MHILL
-40000-	

STATION ID

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FI): 16 7"
WEATHER: Cloudy winds SCOT	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Colemen Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: MAINEL	POT TURNATURE TO SET MALL COM.

DATE: 1/4/14 START:			START:	END:		
DEBLIH RET	PENETRATION (FT)			SEDIMENT DESCRIPTION	TION COMMENTS	
	PERETIFA	RÉCOVE	RY (FI) MTYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE		SAMPLE ID, CAYOC, ETC
0_ - - 1_ - 2_ - 3 - - - -		;	24	G-2.4: Light brown, film to fine sind, trave silt	Pertical Interval So-Lai	0.5/1.0 1.0/1.5 1.5/2.0 20/25 20/25 35/29 off surface for composite

STAFF GAUGE No. and ELEV: T1
STAFF GALIGE READING (FT): 1,8
WATER ELEVATION:
SEDIMENT ELEVATION:

x-coordinate: 45 '05 '44 .230' N y-coordinate: 27° 36 '30 .576' W

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HEET 1 OF 1

Sediment Gorievog

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 10 4 3"
WEATHER: Clarky willy, 45°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):
Language Lander	

SED THICKNESS TO REFUSAL (FT): DATE: 1/4/14 DEPTH BELOW SURFACE (FT) SEDIMENT DESCRIPTION COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, OAVQC, ETC CONSISTANCY, & STRUCTURE 0- \$3 = Brown, well graded, from -SD-La1-D - 00/0,5 Medium + course, truck silf 0.5/1.0 1.3- 2.4 = Eight bison, well graded 1.0/1.5 firm, fine to redium sand, 1.5/ 20 true silt. 2.0/2,5 23-36-Same as above; more 2.5/30 thes, woody organic mather Prom 2.7-281 3.013.60 3.6 Portion iff share inkruit for composite SD-La1- 60/0.5 Duplicate

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

X-COORDINATE:

45'05"45,420"N

Y-COORDINATE:

87°36'30.778"W

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SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SUMM WAT DROJE 50	TOP OF BARGE TO WATER (FT): 2.5	
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 8,5	
EQUIPMENT: Geoprobe w macrocore sampler of hand core	TOP OF BARGE TO REFUSAL (FT):	
LOGGER: Marlutan	+ SED THICKNESS TO REFUSAL (FT):	

DEPTH BELOW SUPPLACE (FT) PENETRATION (FT) PENETRATION (FT) RECOVERY (FT) RECOVERY (FT) PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE O. O. O. O. O. O. O. O. O. O	DATE: O	DATE: 10/28/14 START: UID END:					
RECOVERY (FD) NTYPE SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE O. O. O. O. O. O. O. O. O. O		OW SURFACE (FT)			SEDIMENT DESCRIPTION	COMMENTS	
O-a.y dark brun black - SD-122-A ab70.5 Very Soft a loose - free sandy silt w/ trace organics + wood from sand, some silt. 2.4-2.10 brun fine-med from sand, some silt.		PENETR	ENETRATION (FT)				
consistancy, & STRUCTURE SAMPLE ID, CANCE, ETC SAMPLE ID, CANCE, ETC SAMPLE ID, CANCE, ETC SAMPLE ID, CANCE, ETC SOLIDAL - A 070.5 Consistancy, & STRUCTURE Consistancy, & STRUCTURE SOLIDAL - A 070.5 Consistancy, & STRUCTURE Consistancy, & STRUCTURE SOLIDAL - A 070.5 Consistancy, & STRUCTURE Consistancy, & STRUCTURE SOLIDAL - A 070.5 Consistancy, & STRUCTURE Consistancy, &			RECOVERY (FT)		SEDIMENT TEXTURE COLOR RELATIVE DENSITY OF		
0-2.4 dark brown/black 50-122-A-0070.5 very soft 1/00se - "0.5/1.0 fine sandy silt - W/ trace organics + wood - 1.0/1.5 2.4-2.6 brown fine-med for composite so-122-0.0/0.5 silt.		ĺ		#/TYPE		SAMPLE ID, QA/QC, ETC	
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5					.,,		
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5	—						
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5	0_				12 2 11 dark brown / block	SD-622-A-0070.5	
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5			l		o-and aux promotes	" n5/1.D	
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5	i -i		l		VCM SOTT 4 100 SC -	1.71.	
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5	-		l		Carlenduellt -	1 1.0/1.5	
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2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5	! -		l		w/ trace oreanics	1	
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5	144		l		40, 1,400	× 20/2.6 _	
2.4-2.6 boun fine-med - Interval for composite form sand, some-so-L22-0.0/0.5			l		4 MOON	Porture of a chair	
frm sand, some- silt.			1			,	
frm sand, some- silt.	-				2.4-2.10 bonn fine - mad -	Interval for composite	
3_] _			,	Marie True Charles Inde	50-122-00/05	
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NOTES:	STAFF GAUGE No. and ELEV: 1 1 STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:			
	X x-coordinate: ✓ y-coordinate:	45°05'44.797"N 87°86'31.671"W		

STATION ID LD. A-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 15.3
WEATHER: SUMMY, WEAW 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: May Noter	SED THICKNESS TO REFUSAL (FT):
DATE: 10/28/14 START-103() END:	

	OW SURFACE (FT)	SEDIMENT DESCRIPTION	
DEF IN DEL	PENETRATION (FT)	SEDIMENT DESCRIPTION	COMMENTS
	RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_ 1 2 3		0.0-1.6 Brown mod-wared - sand, firm, trace silt (silt louise at 0.9') 1.6-3.4 light brown fine dense/firm sand	#SD-Laa-B-0.0/0.5 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-Laa-0.0/0.5

OTES:	STAFF GAUGE No. and ELEV: 1	
	STAFF GAUGE READING (FT):	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

X-COORDINATE:

Y-COORDINATE:

45°05,44.542°N 87°36130.453″N

0	CH2MHILL
	CHZIVINILL

STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): \S\10*
WEATHER: SUMMU brosu 55	TOP OF BARGE TO WATER (FT): 25
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 13.4
EQUIPMENT: Geoprobe w. macrocour sampler or hand core	TOP OF BARGE TO REFUSAL (FT):

LOGGER: MOUNDHYN SED THICKNESS TO REFUSAL (FT): DATE: 10-28-14 START: N: 00 END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR #/TYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 0-1.1 dork bown, soft & loose Fine sandy silt w/ trace 0.5/1.0 organics Lunod

1.1-1.5 brun-fine to med

sand, trace silt

firm 1.5/2.0 a.0/2,5 a.5/3.0 3.0/3.3 Porton off suitace -interval for composite 1.5-3.3 light brown dense SD-Lad-010/0.5

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

x-coordinate: 45°05`44.374`N y-coordinate: 87°36`29.972"W

0	CH2MHILL
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STATION ID Laa-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 137
WEATHER: SUNNY brezzy 559	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 11. 2
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Mai Noter	SED THICKNESS TO REFUSAL (FT):

DATE: 10 -38 ~14 START: 11:35 END-

DATE: (0 -28 ~1-) START: 11:35 END:							
DEPTH BELOW SURFACE (FT)			SEDIMENT DESCRIPTION	COMMENTS			
PENETRATION (FT)			1				
	RECOV	ERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC			
0_			0-0.6 brown med coares -	SD-L22-D-0.0/0.5.			
77	\$		sand, firm, trace SIH-	" 0.5/110 -			
			0.6-0.9 silty brown/dk br	10/15 -			
1_			Med-boarse sahl,	1.5/2.0 - 2.0/2.5 -			
-			soft doose_	2.5/3.0			
-			0.9-1.9 brown med-coarse	3,0/3,5			
2_			sil+	Portion off surface - interval for composite_			
-			1.9-2.8 light brown fine -	SD-L22-0,6/0.5 -			
_			dense sanel	-			
			2.8-3.5 light brown time	-			
3_			dense saw w/ veny law plasticity clay, - dry to mois?				
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-			7	-			
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IOTES:	 	STAFF GAUGE No. and ELEV:	TI	
		STAFF GAUGE READING (FT):		
		WATER ELEVATION:		
		SEDIMENT ELEVATION:		

X-COORDINATE: 45"05,45 16" N

Y-COORDINATE: 87°36'38 637"W

0	CH2MHILL
1	

PROJE	CT N	UMB	ER	
6501	84.	LP.	06.	CS

STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 15 6
WEATHER: Claudy, birclify 50	TOP OF BARGE TO WATER (FT): 2,5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 3,0
EQUIPMENT: Geoprobe w/ macrocom sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Menhotor	SED THICKNESS TO REFUSAL (FT):

DATE: 10 - 29-14 START: 12 in END:

DATE: 10 - 39-14 START: 12-10 END:					
	H BELOW SURFACE (FT)			SEDIMENT DESCRIPTION	COMMENTS
	PENETRATION (FT) RECOVERY (FT)				
		KECOVE	MTYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	SAMPLE ID, DAVOC, ETC
				CONSISTANCY, & STRUCTURE	D
		_			
0_				0-0.8 bown med-warer-	50-1-33-A-0-070-5
				D. D. S. S. S. W. Made and .	
7	1			verl graded sand, - some silt, firm -	" 0.5/1.0 1 1.0/1.5 Ex
-	1			some silt, firm	1 1,0/1.5
-				1	al large
1_	1			0.8-29 light brown fine- degree sand w/ trace	1.5/2.0
_	l i			lames sand ill touls	a.o/a.5 -)
3				alestice switch with time	4 0,010 7/
7				low-pl clay -	2.5/2.9 1
-				, , , , , , , , , , , , , , , , , , ,	Portion off surface interval for composite-
-				1	interval for imposite -
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STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): 1.7 WATER ELEVATION: SEDIMENT ELEVATION:

X-COORDINATE: 45°05143.647"N

Y-COORDINATE:

870 36'28.855" W

0	CH2MHILL
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Laz-B

SHEET 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 15 1 "
WEATHER: CARLOLI, WALL, 50°	TOP OF BARGE TO WATER (FT): 2.5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT):
EQUIPMENT: Geoprobe w/ nacrocopy sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER MALLINET N	CENTUCKNESS TO DEFLICAL (ED.

DATE: 10/28/14 START: END: DEPTH BELOW SURFACE (FT) SEDIMENT DESCRIPTION COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR MTYPE SAMPLE ID, QA/QC, ETC CONSISTANCY, & STRUCTURE 80-623-13-0.0/0,5 0-6.3 Brown med-worse 0.571.0 Jarone sand w/ small grand -+ silt, form 1,5/2.0. 0.3-1.9 bown silty 2.0/2.5 finor-med sand, from, moist a.5/3.0 1.9 - 2.6 bown med - Partion off surface where suffice silt, - SD-L23-0.0/0.5 2.6-3.0 light brown, firm 4 dense safina-sand

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

X-COORDINATE: 45°05'43363"N

Y-COORDINATE: 87° 36'29, 168"W

	CH2MHILL
3	CHZIVINILL

STATION ID LA3-C SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 1/7 }
WEATHER: Cloudy, Whay 50	TOP OF BARGE TO WATER (FT): 2, 5
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 11-7-
EQUIPMENT: Geoprope w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGED May NATON	CEO TINOMICO TO DEPUGAL ATT

SED THICKNESS TO REFUSAL (FT): DATE: 18 - 29 - 14 START: (3:50 END:

	10 - 29 - 14 START: (2 - 50 END:			
TH BELOW SURF		SEDIMENT DESCRIPTION	COMMENTS	
PENETRA	TION (FT) RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAVOC, ETC	
0		0-1,0 dark borns sitt, - trace fine sand, Soft 1.0-18 brown med-well - 1.8 graded sand trace silt, firm 1.8-4.5 light brown fine - dense sand	SD-L23-C-0.0/0.5 = 1.0/1.5 = 1.0/1.5 = 1.5/2.0 = 2.5/3.0 = 2.5/3.0 = 3.0/3.5 = 3.5/4.0 = 1.0/4.5/2 Portun off surface = 1.0/4.5/2 Interval for composite = SD-L23-0.07005 = -	

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

SEDIMENT ELEVATION:

x-coordinate: 45°05' 42,659"N y-coordinate: 87°36'29,306" N

STATION ID L23-P SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT): 10, 2 *
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):
Marketon	

DATE: 10/08/14 START: SED THICKNESS TO REFUSAL (FT):

ATE: 10/08/		START:	END:	<u> </u>
PTH BELOW SUR			SEDIMENT DESCRIPTION	COMMENTS
PENETR	ATION (FT)			
	RECOVER	Y (F1) VTYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	SAMPLE ID, QA/QC, ETC
	l r		CONSISTANCY, & STRUCTURE	SAMPLE ID, GAGO, ETC
	-			
0_	1 1		0-1,3 black silt, from soft,	SA 127 D 1 12-3
	1 1		0-1.2 place 21/1/11/2001	30-125 U-00/057
	1 1		some fine sand +	0,5/1.0]
-			trate some Wood	1 1 1 1 1 1
	1 1		Fracti Some Word -	1.0/1.5 -
1-			+ organics -	
-	1 1		12 0 2 0	1.5/2.0]
-		!	1.3-2.2 Brown sitt, firm) 124-
_	1 1		Some fine sand	3. <i>u</i> [2,5]
_			I trace wood o-	2.5/3,0-
2	1 1			0-2/3,0-
	I	!	organics -	Portion off surface interval for composite 80-L23-0.0/05
-	1 1			Poutlan of The
-			2.2-3.4 brown med -	I suitace
-	1 1		- ell on do de a la	interval for composite
-			wat griala squal	an 123 12.0/05 -
3			well grided sand. WI some silt a	80-20,500
,-immigration	1 1		tace wood &	
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IOTES:	STAFF GAUGE No. and ELEV:	11	
	STAFF GAUGE READING (FT):	1,7	
	WATER ELEVATION:		
	SEDIMENT ELEVATION:		

x-coordinate: 45°05'41.782" N y-coordinate: 87°36'29.657" ω

	CH2MHILL
-	

L24-A

SHEET 1 OF 1

SEDIMENT GORE LOG

PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SUR	FACE (FT):				
WEATHER: SUNNY, WINLY, 45° P 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: Gara Markoto	AUG SUD LOZO	L(FT): 4 1				
DATE: 0/8/14 START:	147 END: 1030	74.XX				
DEPTH BELOW SURFACE (FT) PENETRATION (FT)	SEDIMENT DESCRIPTION	COMMENTS				
RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC				
0	Sand & wood chips, look, wet 0.7-3.0 Brown med- coarse sand, from I trace silt, trace wood chips, well godes muist	3D-L24-A-0100.5 SD-L24-A-0100.5/1.0 SD-L24-A-1.0/1.5 SD-L24-A-2.0/2.5 SD-L24-A-2.0/2.5 SD-L24-A-2.0/2.5 SD-L24-A-2.0/2.5 SD-L24-A-2.0/2.5 SD-L24-A-2.0/2.5 SD-L24-A-2.0/2.5				
NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:					

 \not x-coordinate:

X x-coordinate: 45° 05'44.911 N X y-coordinate: -87° 34' Z3,449 N

Att1_Sediment Log Template.xls

	CH2MHILL
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L24-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):							
WEATHER: GAT CLIRACY, WINNY, UST TOP OF BARGE TO WATER (FT):							
CONTRACTOR: Coleman Engineering XWATER 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://		\neg				
DEPTH BELOW SURFACE		SEDIMENT DESCRIPTION COMMENTS	193				
	ECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE SAMPLE ID, QA/QC, ETC					
0_		0-0.2 well grided sand - 50-L24-B-0.0/0.5 W/ 511+, brown, - 50-L24-B-0.5/1.0 moist, wood chips - 50-L24-B-1.0/1.5	- Caron				
1_		U.2-2.2 Brown, well-groded SD-L211-B-1.5/2.2 need-coarse sand, - Portioned out surface trace 51/t, firm Interval for	=				
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2_		Sp-124-0.0/0.5					
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NOTES:		STAFF GAUGE No. and ELEV: 11 = 580.06 STAFF GAUGE READING (FT): 0.1/ 0.1/52.m WATER ELEVATION: SEDIMENT ELEVATION:	- - -				
		XX-COORDINATE: 45 05 44,112					
		ペ Y-COORDINATE: <u>名7 36 22,32</u>	24				

0	CH2MHILL
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L24-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SUNNY WINDY SO	TOP OF BARGE TO WATER (FT);	
CONTRACTOR: Coleman Engineering	A'WATER DEPTH (FT): 2,9	
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):	
LOGGER: Mas Noter	SED THICKNESS TO REFUSAL (FT):	

DATE: 10/8/14 STAF	: 1400 END: 1530	
DEPTH BELOW SURFACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (FT) RECOVERY (F	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_	0-0.3 SHy Sand W/ organics & wood chips, walk 6-3-2.7 black to dark brown med- warse sand, firm	80-Lay-c-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0 2.0/2.7 Brhoned off switace- 1.140000 for - SD-Lay-0.0/0.5

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2.4		Ç*=			
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1_		5. -			
NOTES:		STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:			
		X x-coordinate:	45	45	44.840N
		X Y-COORDINATE:	87	34	22,708 W
		-			

	CH2MHILL
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STATION ID

87 34 22,165 R

Y-COORDINATE:

	(i)	SEDIMENT GO	RE LOG
PROJECT : Tyco Fire	Products LP	TOP OF BARGE TO SED SURF	FACE (FT):
WEATHER: SUNNU	1, windy,	TOP OF BARGE TO WATER (F	T):
CONTRACTOR: Colem	nan Engineering	XWATER DEPTH (FT): 3,	5
EQUIPMENT: Geopro	pe w/ macrocore		
LOGGER: Marho	1	X SED THICKNESS TO REFUSAL	. (FT):
DATE: 10/8/14		SUD END: 1630	
DEPTH BELOW SURFAC		SEDIMENT DESCRIPTION	COMMENTS
· · · · · ·	ECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
3		0.0-0.7 Silt W/ Drganics. 4 wood chips 6 mwn, louse 6-7-1.1 fine-med Sand, 6 brown, with 1.1-2.0 warse sandy 6 brown, firm	SD-L24-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/20 British off suchair Interval for SO-L24-0.0/0.5
-		-	-
NOTES:		STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION:	
		λ x-coordinate:	45 05 45,025 N

	CH2MHILL
CARRIED	

L24-E

SHEET 1 OF

SEDIMENT CORE LOG TOP OF BARGE TO SED SURFACE (FT): PROJECT : Tyco Fire Products LP 450 TOP OF BARGE TO WATER (FT): WEATHER: SUNNY, WINDY X WATER DEPTH (FT): 4.7 CONTRACTOR: Coleman Engineering EQUIPMENT: Geoprope w/ macrocore sampler of hand core, TOP OF BARGE TO REFUSAL (FT): χ sed thickness to refusal (FT): LOGGER: Marhoter DATE | D/8/14 START: 1500 END: 1726 DEPTH BELOW SURFACE (FT)
PENETRATION (FT) SEDIMENT DESCRIPTION COMMENTS RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE SID-LAY-E-0.0/0.5 - Carchive 1, 0.5/1.0 -1.0/1.5 -1.5/2.1 -0-0.2 dark brown aft w/trace fine ser Sand + organics 0.4- a. I dark brown coarse sand, Portuned of surface.
Interval for
SD-Lau-0.0/0.5 well grades truce SiH, Firm STAFF GAUGE No. and ELEV: NOTES: STAFF GAUGE READING (FT): WATER ELEVATION: SEDIMENT ELEVATION: X X-COORDINATE: 45 05 45, DS9 N

) Y-COORDINATE: 87 36 21, 20 6 W

0	CH2MHILL
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Las-A

SHEET 1 OF 1

Sediment Core Loc

	SEDIMENT GO	ME EUG	
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURF	FACE (FT):	
WEATHER: Sunhy, bycezy	TOP OF BARGE TO WATER (F		
CONTRACTOR: Coleman Engineering	WATER DEPTH (PT):	5,2	
EQUIPMENT: Geoprope w/ macrocore	sampler of hand core TOP OF BARGE TO REFUSAL	(FT):	
LOGGER: Marhoter	SED THICKNESS TO REFUSAL	L (FT):	
	SEDIMENT DESCRIPTION	COMMENTE	
DEPTH BELOW SURFACE (FT) PENETRATION (FT)	SEDIMENT DESCRIPTION	COMMENTS	
RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID. QA/QC, ETC	
0_	0-0.2 wood chips, black - 0.2-2.3 derk brown, - ned-warse - sand w/ trace - Silt a wood chips	SD-L25-A-0.0/0.5 - 0.5/1.0 - 1.0/1.5 - 4 1.5/2.0 - 2.0/2.3 -	nie
2	-	for SD-L25-0.0/0.5 - + SD-L25-0.0/0.5 - D-	
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NOTES:	STAFF GAUGE No. and ELEV		
	STAFF GAUGE READING (FT) WATER ELEVATION	: 11 9 =	
	SEDIMENT ELEVATION		

Y-COORDINATE: 87° 36' 21. 178" W

X-COORDINATE: 45°05'44.578" N



Las-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SUNTY, breezy, 500 F	TOP OF BARGE TO WATER (FT):	
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 4.5 ff	
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):	
LOGGER: Marhoter	SED THICKNESS TO REFUSAL (FT):	

IOTES:	STAFF GAUGE No. and ELEV: 11
	STAFF GAUGE READING (FT): (, 9
	WATER ELEVATION:
	SEDIMENT ELEVATION:

1' Recovery on Las-B Attempted 2 nd drive to get mule sample

45° 05' 44.019" N Y-COORDINATE: 87° 36' 21.646" W

L25B-A

45° 05'44.057"N 87°76' 71.670'W

Att1_Sediment Log Template xls (USE GPS coord L25-B-A.

	CH2MHILL
- CANADA	

STATION ID

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SUNDY, breeze, 500	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 5.6 14
EQUIPMENT: Geoprobe w/ macrocore sampler orband core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Mai hoter	SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14	START: [DOD END:	
DEPTH BELOW SURFACE (FT)		SEDIMENT DESCRIPTION COMMENTS	
PENETRATIO	ON (FT) ECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAVQC, ETC
0_		0-1.9 brown well graded - med-gr serned W/- trace Silt 1.9-2.1 light brown fine Sand w/ silt 2.1-2.7 brown Silt w/- fine Sand & trace organics firm	SD-L25-C-0.0/0.5 1.5/2.0 1.5/2.0 Portuned outsurace- Interval for SD-L25-0.0/0.5
5			

IOTES:	STAFF GAUGE No. and ELEVI			
3	STAFF GAUGE READING (FT):	2.2		_
	WATER ELEVATION:			· ·
	SEDIMENT ELEVATION:	·		
				-
		1150	15	44.358"N
	X-COORDINATE:	90	05	17.330 N
		200	=/1	20 355" W
	V-COORDINATE:	01	36	0-000 11

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L25-D

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: SUMMUL DUE 30

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT):

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DATE: 107/14

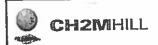
START 1070

END:

DATE: (0/9/14 START: 1020 END:				
DEPTH BELOW SURFACE	E (FT)	SEDIMENT DESCRIPTION	COMMENTS	
PENETRAT			3.	
R	ECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR		
	#/TYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC	
1				
			Tu-	
0_		D-2.4 Brown well graded - fine-med Sand W/ trace silt-t wood chips silt lense at 1'	150+2=-N-00/0= T	
K 1		10-dig Brown well graded	100000000000	archie
-		fine mad sand -	· " 0.5/1.0 - (DNOTT
_	1	The state of the state of	1 10/1.5	00
1 1		WI TRILE SITA	1 1 1 2	i
-	1	Wood Chips "	1 1,5/2.0 1/	
1-1		C. H. Janes and 1' -	¥ 2.0/2.4 =	
		SITE UMSE at 1	2.012.	
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-		-	Portuned off surface	
	l	-	prtuned of active	
1 1 1			interval for	
			Interval for 50-L25-0.0/0-5	
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NOTES:	 -			STAFF	GAUGE REA	o, and ELEV: ADING (FT): ELEVATION: ELEVATION:	9.2				
							وسرود	_1	115	are h	ı

X-COORDINATE: 45 05 43 795 N Y-COORDINATE: 87 36 20 676 N



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SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: Sunny, breezy, 500	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 41
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Muhofer	SED THICKNESS TO REFUSAL (FT):

BELOW SURFACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (FT)		
RECOVERY (F	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_	0-1.5 Brun med-coarse send w/10% silt of trace organics firm to soft 1.5-3.2 Brown fine- med sand, firm to soft	0.5/1.0 -
5		

-		
NOTES:	STAFF GAUGE No. and ELEV	··
	STAFF GAUGE READING (FT)	: d.a -
	WATER ELEVATION	
	SEDIMENT ELEVATION	:

X-COORDINATE: 45°05'43.544" N Y-COORDINATE: 87°36'71.756" W



STATION ID 126-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT): WEATHER: SUNNY , 550 TOP OF BARGE TO WATER (FT): WATER DEPTH (FT): 4,0 FT CONTRACTOR: Coleman Engineering EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT): LOGGER: MAI NOTO SED THICKNESS TO REFUSAL (FT):

TH BELOW SURFACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (F	D	÷
2	0-0.8 fine sandy SIH Wood, Lasse & wot, black 0.8-1.8 Silty well- graded (fine- sand, dark br 1.8-2 black wood Chips + Silt 2-3 brown med silt sand 3.0-3.3 fine Sandy Silt, dark brown, firm [3.3-3.8 fine-med: firm, brown	1 - Portioned off surface interval SD-L25-0.0/0.5 MS/MSD 1.0/1.5 1.5/2.D 2.0/2.5 3.5/3.8 MS/MSD MS/MSD

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

45° 35' 43.910" N 87° 36' 18.534" W X-COORDINATE:

Y-COORDINATE:

	CH2MHILL
ALC: USE OF THE PERSON NAMED IN	

SEDIMENT GORE LOG

PROJECT: Tyco Fire Products LP TOP OF BARGE TO SED SURFACE (FT):						
WEATHER: SWYNY, GREETY SO TOP OF BARGE TO WATER (FT):						
CONTRACTOR: Coleman Engineering WATER DEPTH (FT): 3 8 F /						
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core TOP OF BARGE TO REFUSAL (FT):						
LOGGER: Mayhoto SED THICKNESS TO REFUSAL (FT):						
DATE: D/9/19 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, ETG				
0_	0-2.9 Brown fine-med well graded sand, firm, muist, trace silt	Portimed out suthue my SD-L26-0.0/0.5 Portimed out suthue my SD-L26-0.0/0.5 MS/MSD MS/MSD				
3_						
4						
5		-				
NOTES:	STAFF GAUGE No. and ELEV STAFF GAUGE READING (FT)					
	WATER ELEVATION SEDIMENT ELEVATION	Y				
	X-COORDINATE Y-COORDINATE	87" 36" 6 106" 11				

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La6-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: GANNY 555	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: Marhoter	SED THICKNESS TO REFUSAL (FT):

TE: D/9/16 THE BELOW SURI	FACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETR	ATION (FT)		
	RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_		0-2.9 med-coarse vell- graded Sand, brown to dark brown, - trace Silt, firm	1.5/2.0
1		- - - -	2.0/2.5 2.5/2.9 Portinged off surface Interval for SD-L26-0.0/0.5 MS/MSD
2		-	SD-L26-0.010.5 MS/MS/D
3_		-	
4_			
5_			
-			
-	-		1

NOTES:	STAFF GAUGE No. and ELEV:		
	STAFF GAUGE READING (FT):	3.9	_
	WATER ELEVATION:		
	SEDIMENT ELEVATION:		

X-COORDINATE: 45° 05' 42.526" N Y-COORDINATE: 87° 36' 17. 983" W

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1000	
	CH2MHILL
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STATION ID L27-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP		TOP OF BARGE TO SED SURF	ACE (FT):	
WEATHER: SUMMU 50		TOP OF BARGE TO WATER (F	T): .	
CONTRACTOR: Coleman Engineering		WATER DEPTH (FT): 5. 2	2.	
EQUIPMENT: Geoprobe w/ macrocore	sampler or hand core	TOP OF BARGE TO REFUSAL	(FT):	
LOGGER: MAY KUT W		SED THICKNESS TO REFUSAL	. (FT):	
DATE: I VIUI IY START:	3(U) END: \(\frac{17(10}{})	080		
DEPTH RELOW SUBSACS (ST)	SEDI	MENT DESCRIPTION		

EPTH BELOW SURFACE (FT)		
PENETRATION (FT)	SEDIMENT DESCRIPTION	COMMENTS
RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_ 1_ 2_ 3_ 4_ 5_	0-29 Brown fine to coarse, well graded - gd. sand. Treate silty and (dark brown) w/ organics lenses ext 0.4" + 0.9"	SD-La7-A-0.0/0.5 0.5/1.0 1.5/2.0 2.0/2.5 3.5/2.7 Interval for SD-La7-0.0/0.5

NOTES:	STAFF CALISE AND AND STAFF	
	STAFF GAUGE No. and ELEV:,	
	STAFF GAUGE READING (FT):	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45° 05 ' 41.880" N y-coordinate: 87° 36' 15.956 " W

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STATION ID LATER SHEET 1 OF 1

CH2MHILL					
SEDIMENT CORE LOG					
ROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SUR	FACE (FT):			
VEATHER: SWINY 50	TOP OF BARGE TO WATER (F	-T):			
ONTRACTOR: Coleman Engineering	WATER DEPTH (FT): \sim ,	3			
QUIPMENT: Geoprobe w/ macrocore					
ogger: MUNDKY ate:10/9/(4–0/0 start:1	SED THICKNESS TO REFUSAL	L(FT): 4.2			
EPTH BELOW SURFACE (FT)	(の方) END: \U/(()/(4)()()) SEDIMENT DESCRIPTION				
PENETRATION (FT)		COMMENTS			
RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC			
0_	0-0.3 dark brown sifty - fine sand w/	SD-Lat-13-0.010.5 = 0.5/1.0 - 0.5/1.0			
1_	50% organics - of wood chips -	V 1.5ねみ-レ			
-	med stand have	Partin of Surface -			
2_	silt, trace organis	SD-LD7-00/05 -			
	med sound, trace - silt, trace organis- trace coarse sand, - loose to firm	-			
1: 2	-	-			
3_		_			
-		- -			
4_	-				
27	-	-			
5_	-				
	-	: = %2			
	7.2	- -			

SEDIMENT ELEVATION:

x-coordinate: 45° 05' 40, 794" N y-coordinate: 87° 36' 16, 499" W

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STATION ID

27-C SHEET 1 OF

SEDIMENT CORE LOG

		AND ASSESSMENT OF THE PARTY OF
PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SMNM , 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; MAINTY	SED THICKNESS TO REFUSAL (FT):	

DATE 10/9/14-1		700 END:10110 U910	
DEPTH BELOW SURE		SEDIMENT DESCRIPTION	COMMENTS
PENETR	ATION (FT) RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_		0-0.4 fine-ined brown - Sand, lovse-firm, - trace silt 0.4-0.9 dark brown very - lovse wet silty - fine sand w/ wordy chunks 0.9-3.6 brown med well - graded sand, - trace silts, woody pieces at 1.8 t 2.1	SD-L27-C-0.0/0.5 = 0.5/1.0 = 1.0/1.5 = 1.5/2.0 = 2.0/2.5 = 2.0/3.6
5_			

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

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

0	CH2MHILL
THE RESERVE	

PROJECT NUMBER

CH2MHILL		LL.	030104.LP.00.CS	Lo	T-D SHEET 1 OF 1		
400				SEDIM	ENT CO	RE LOG	
PROJECT	: Tvco Fir	e Produc	ts_LP	TOP OF BARC	E TO SED SUR	FACE (FT):	
WEATHER SUNNY 500			0	TOP OF BARGE TO WATER (FT):			
CONTRAC			ineering	WATER DEPT		7	
EQUIPME	NT: Geop	robe w/ п		sampler or hand core TOP OF BARG	E TO REFUSAL	(FT):	
LOGGER:	Mulli	ster		SED THICKNE	SS TO REFUSA	L (FT):	
			START:	1700 END: 10/10 0900			
DEPTH BEL	OW SURFA			SEDIMENT DESCRIPTION		COMMENTS	
1	1 .	RECOVE		SEDIMENT TEXTURE, COLOR, RELATIVE	DENSITY OR		
			#/TYPE	CONSISTANCY, & STRUCTURE		SAMPLE ID, QA/QC, ETC	
1						8	
0.	L As		1.11	(10-) 11 0	1	SD-L27-D-0.0/0.5 -	
, °.			7.3	0.0-2,4 Brown me	a -		
07				well stone	graded-	0.5/1.0 -	
1 5	-			well goth sand, train twood of firm to	of other	1.0/1.5	
- 22	-			1 30 070d C	10 - 2111 2 -		
12	2			7.0000	MIES 1-	1.5/2.0	
10.5	_			hrm to	Soft =	2.0/2,4	
50						Portioned off swiface -	
					_	interval FIN	
1						- 127 - 20	
	-		1			SD-L27-0.0/0.5 -	
2 -	-				-	[
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	7		-				
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IOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT):	
	WATER ELEVATION	
	SEDIMENT ELEVATION:	
	· · · · · · · · · · · · · · · · · · ·	

X-COORDINATE: 45005'40.361"N

Y-COORDINATE: 87-36'13,747"W

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62096	CONTRACTOR OF LITTER
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resistr.	
	CH2MHILL

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SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SANNY 506	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: MayNo-SCV	SED THICKNESS TO REFUSAL (FT):	
107071Q START-14(C) END		

DATE: 1074	9/14		START: L		
DEPTH BELOW SURFACE (FT)			SEDIMENT DESCRIPTION	COMMENTS	
PE	ENETRAT	_			
	A	ECOVER		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	CAMBICIP OVICE ETC
	1		#/TYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
					221
					1 1 1
0_	- 1			0-1,1 dark brown , -	SD. L28-A-0.0/0.5
	- 1	- 1		Cally a Garage	
! -1				Silty fine sand - w/ 50% wood -	0.5/1.0
l _l	- 1			- (EDD / 1000)	
1 1				04/ 00 40 0400	1.0(1.5
-	1			chips, loss	1210 0
1					1,5/2.D_
1 1	1		1	Lina Con -	2.0/2.5
-	ŀ			10/28 Moun 5111) 11/2-	3.0100
-	- 1			hand hann	25/28
_			1	1.1-28 brown Silty fine-	4.5/0.8
1	İ			101111	2 a w
-				wood@ \$51.6 -	Pointion off Sufface_ interval for SD-L28-0.0/0.5
2_	ļ			_	I was a late of the same of th
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277			1		
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NOTES:	STAFF GAUGE No. and ELEV: STAFF GAUGE READING (FT): WATER ELEVATION:	
	SEDIMENT ELEVATION:	450 05 39.627 N
	X-COORDINATE:	
	Y-COORDINATE:	87° 36 12.037 W

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410MS60-	

STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

ROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT
- 4.11 /-2-2	

WEATHER: SUMMY, BUCK TO TOP OF BARGE TO WATER (FT): WATER DEPTH (FT): CONTRACTOR: Coleman Engineering

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

DATE: 10/9/14 START: END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE 50-L28-B-0,0/0.5 D.O-1,3 brown to dark 0. boom silty fine-med sand some wood & trace grave " 0.5(1.0 | 1.0(1.5 | 1.5/2.0_ 1.3-2.3 dark brown silty med-warse, sand. a.0/2.3 Portronal of surface. 2 SD-L28-0.0/05 @a.3 is silt plus@ boltom

NOTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT): 2
	WATER ELEVATION:
	SEDIMENT ELEVATION:

X-COORDINATE: 45°05'33.941" N

Y-COORDINATE: 87-36 12,870" W

© CH2MHILL

STATION ID

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SUNNY, BYCOTY, 50°	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 1, 8
EQUIPMENT: Geoprobe w/ macrocore sample or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: Marhoto.	SED THICKNESS TO REFUSAL (FT):

DATE: 10/9/14 END: SEDIMENT DESCRIPTION DEPTH BELOW SURFACE (FT) COMMENTS PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR SAMPLE ID, QA/QC, ETC #/TYPE CONSISTANCY, & STRUCTURE 0-0.6 SIH Worganics SND-L28-C-0.0/0.5 of fine sand

Soft, dark brown

wood chips

0.6-1.6 brown fine-med

Sand W/ wood

Chips

Sp-Las-0.070.65

NOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT):	d11
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45°05'37,338"N y-coordinate: 87°36'11,363"W

0	CH2MHILL
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STATION ID

-28-D s

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SMMMY, LYCOM, 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: MALNUTUM SED THICKNESS TO REFUSAL (FT):

DATE: 10/9//	START:	END:	
DEPTH BELOW SURF		SEDIMENT DESCRIPTION	COMMENTS
PENETA	ATION (FT) RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0		0-2.9 Brown med- coarse sand, trace silt, trace gard, firm	SD-L28-D-0.0/0.5- 0.5/1.0 1.5/2.0 20.2/2.5 20.2/2.9 Portuned off surface Interval for SD-L28-0.0/6.5

NOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): d 1	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

X-COORDINATE: 45° 05' 37.552" N Y-COORDINATE: 87° 36' 10, 059" ω

	CH2MHILL
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STATION ID 29-A

SHEET 1 OF 1

SEDIMENT GORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SUNNY, broth, 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):	12
LOGGER: Marhoter	SED THICKNESS TO REFUSAL (FT)!	17
1-70/12/		

E: 10/9/19	START:	END:	
TH BELOW SURI		SEDIMENT DESCRIPTION	COMMENTS
PENETR	RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_		0-0.8 dark brown fine to coarse sandy, some Silt & wood Chip's, firm 0.8-2.7 Brown trace coarse sand d wood chips trace silt	80-639-A-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.0- V 2.0/2.7 Portioned of allifations interval for 80-629-0.0/0.5
4			

NOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): 2)	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45°05'36.0:7"N y-coordinate: 37°36'07.550"ω

	CH2MHILL
-	9-1-1

L29-B

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: SUNNY DROTH SD

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 4, 4

EQUIPMENT: Geoprobe w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

LOGGER: 10/9//4	START:	SED THICKNESS TO REFUSAL	C (P 1):
DEPTH BELOW SURF		SEDIMENT DESCRIPTION	COMMENTS
	ATION (FT)		84 =
	RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR	CAMPLE ID CARCO ETC
	#/TYPE	CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
}			¥ "
0_		0-2.7 Brown fine- med sand, firm, trace wood chunks	\$50-129-B-0.0/0.5
-		D' dit Brown inc	
-		med some in	0.5/1.0
-		trace wood chunks_	0.5/1.0
1-		Trace silt -	1.5/2.0-
-		_	2.012.7
-		-	1
-		on the state of th	Portished out surface interval - for 510-129-0.0/0.5
2			Law Free wakmad
			Sur the Inpover
_			tur 510-124-0,0/0.5
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Si .	_		
5		_	72
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NOTES:	STAFF GAUGE No. and ELEV:
	STAFF GAUGE READING (FT):
	WATER ELEVATION:
	SEDIMENT ELEVATION:

x-coordinate: \(\frac{45\circ 05\circ 35\cdot 241\circ\)\\
y-coordinate: \(\frac{87\circ 36\circ 05\cdot 753\circ\)\W

CH2MHILL

STATION ID 29-C

SHEET 1 OF 1

SEDIMENT CORE LOG

		_
PROJECT: Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SUNNY, GYCOZY	TOP OF BARGE TO WATER (FT):	_
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 3,9	
EQUIPMENT: Geoprobe w/ macrocore sampler or hand of	TOP OF BARGE TO REFUSAL (FT):	_
LOGGER: MANAGEN	SED THICKNESS TO DEFLICAL (ET):	_

DATE: LO77/	Y START:	END:	
DEPTH BELOW SUR	FACE (FT)	SEDIMENT DESCRIPTION	COMMENTS
PENETF	RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0_		Sand w/ 25% wood chips, loose 0.7-3,8 Brown to dark brown med- barse sand, some solt, trace wood trace smell gravel, Firm Silt plug at bottom (black, firm)	Sp-Lag-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 - 3.5/3.8 - 3.5/3.8 - 5.5/3.8
4			

NOTES:	STAFF GAUGE No. and ELEV:	
· · · · · · · · · · · · · · · · · · ·	STAFF GAUGE READING (FT):	dil
	WATER ELEVATION:	* 1
	SEDIMENT ELEVATION:	

x-coordinate: 45°05 35.932" N y-coordinate: 87°36 05.889 \ \



LZD-A

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SUNNY WINDY 458	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 3 · 3
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: May hot	SED THICKNESS TO REFUSAL (FT): 4,2
DATE: 10/8/14 START: END:	·

DATE: \ 0/8/	14	START:	END:	
DEPTH BELOW SL			SEDIMENT DESCRIPTION	COMMENTS
PENE	RECOVER		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0		:	0-0.6 Silfy Sand, - W/ wood chunks, dark brown -	SD-130-A-0.0/0.5- 0.5/1.0-
1_			0-6-10.15 dark brown - med-coarst Sant- 1-32 W/ Silt	1.5/2.0-
2_			1,0-12 wood 1,0-1	-
3			1.3 Coarse sand, - Some med sand, firm, trace -	-
4_			51II -	_
5			-	-
-				-

STAFF	F GAUGE No. and ELEV:			
10 ps coord	X-COORDINATE:	45	۵5	34.702 N
(ups word)	Y-COORDINATE:	ह्य	34	04.314 10
NOX 130-1-1				

NOTES:

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L30-B

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

TOP OF BARGE TO SED SURFACE (FT):

WEATHER: WINNY / WINNY 45°

TOP OF BARGE TO WATER (FT):

CONTRACTOR: Coleman Engineering

WATER DEPTH (FT): 2. 6

EQUIPMENT: Geoprope w/ macrocore sampler or hand core

TOP OF BARGE TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DATE: 10/8/14	START:	END:	
EPTH BELOW SURFA		SEDIMENT DESCRIPTION	COMMENTS
PENETRA	TION (FT) RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0		0.0-3.4 med-warse - Sandw/trace - Silt, brown, - dark brown, - tirm 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 3.5/3.0 3.0/3.4-
4			

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 00,491 W



L30-C AND SHEET 1 OF 1

.. SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):	
WEATHER: SMYMY, B- WINDY, 45	TOP OF BARGE TO WATER (FT):	Ξ
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 4,0	
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):	
LOGGER: Manhotor	SED THICKNESS TO REFUSAL (FT):	

GER: MAKING	SED THICKNESS TO REPUSAL	. (. 1).
TH BELOW SURFACE (FT)	END: SEDIMENT DESCRIPTION	COMMENTS
PENETRATION (FT)		
RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QAVQC, ETC
0_	0-2.0 med well-graded- brown sand, fry M, trace Silt+ wood -	8D-L30-C-0.0/0.5 0.5/1.0 1.0/1.5
1_	Firm, trace	1.0/1.5 1.5/2.0
	chip6	8
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3		
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5_	-	
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			130-C.	- A
			_	

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

X-COORDINATE: 45 05 35,949 N

Y-COORDINATE: 87 34 05,075 W

ZNA \ 45 DS 35,932 N ATT \ 87 34 04,990 N

NOTES:

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L3FA

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: Saftly Shanny, winely 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	

DATE: 10/8/14 START: 130 END: DEPTH BELOW SURFACE (FT) SEDIMENT DESCRIPTION COMMENTS PENETRATION (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE 0- 0- SO-1.3 byour mid-coarse - SO-1.31-A-0.0/ Sand. Firm SO-1.31-A-0.5 1- 1- Wed-warse sand - SO-1.31-A-1.5 W/ Sitt-wood - SO-1.31-A-1.5 SO-1.31-A-1.5	
PENETRATION (FT) RECOVERY (FT) SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE SAMPLE ID, QAYOC O_ O_ Selnd, Firm, SO_L31-A-0.5	
RECOVERY (FT) NOTYPE SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE SAMPLE ID, OA/OC O_ O_ SELTA SELTA SOL3 A-0.5 SURVEY SOL3 A-0.5	
Seind. Firm SD-L31-A-0.5	0.5
- 1.7-2.6 brown med-warse sand, firm Portwood off comments of the sand, firm For SD-L31-0.0	0.0/0.5 10.5 0.0/0.5 10.5
3-	2,5~D

OTES:	STAFF GAUGE No. and ELEV:	
2: -	STAFF GAUGE READING (FT): Q 1	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45° 05' 33,457 N y-coordinate: 87° 35' 58,942 W

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L31-B

SHEET 1 OF 1

SEDIMENT CORE LOG

			м
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 or hand core	TOP OF BARGE TO REFUSAL (FT):	_
LOGGER:		SED THICKNESS TO REFUSAL (FT):	
DATE: UD/ Y/ 17/ START: 15	TAT END:		

DATE: \ D/ 8/		200 END:	
DEPTH BELOW SUF		SEDIMENT DESCRIPTION	COMMENTS
PENETI	RECOVERY (FT)	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0		0-1,5 brown med-warst Sand, firm, molst 1.5-1.7 black wood chips	SD-131-13-0.0/b.5 SD-131-13-0.5/1.0 SD-131-15-1.6/1.7 SD-131-0.0/0.5 +SD-131-0.0/0.5-10

	•	
NOTES:	STAFF GAUGE No. and ELEV:	
	STAFF GAUGE READING (FT): 1	
	WATER ELEVATION:	
	SEDIMENT ELEVATION:	

x-coordinate: 45° 05' 33,349 N

Y-COORDINATE: 87 35 58.722 W

CH2MHILL

STATION ID L31-C

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: SLIPPLY WINDY 500	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: May No	SED THICKNESS TO REFUSAL (FT):

DATE: 10/8/14		200 END: 1450	
DEPTH BELOW SURF		SEDIMENT DESCRIPTION	COMMENTS
PENETR	ATION (FT) RECOVERY (FT) #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
0		Sondw/sitt of	SD-131-C-0.010.5 1.0/1.5 1.5/2.0 2.5/2.9 Portion surface Interval for SD-131-0.0/0.5 40

OTES:	STAFF GAUGE No. and ELEV:	
•	STAFF GAUGE READING (FT): 13.	_
	WATER ELEVATION:	_
	SEDIMENT ELEVATION:	

Y-COORDINATE: 45 05 33.119 N Y-COORDINATE: 87 35 57.698 U

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L31-D

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP	TOP OF BARGE TO SED SURFACE (FT):
WEATHER: GUMNY, WINDY, 500	TOP OF BARGE TO WATER (FT):
CONTRACTOR: Coleman Engineering	WATER DEPTH (FT): 4 1 }
EQUIPMENT: Geoprobe w/ macrocore sampler or hand core	TOP OF BARGE TO REFUSAL (FT):
LOGGER: MAINUTEN	SED THICKNESS TO REFUSAL (FT):
DATE: 10/8/14 START-12/00 FND-1450	

PPTH REI OW CHOI	FACE (CT)	200 END: 145 D SEDIMENT DESCRIPTION		
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_ 1_ 1_ 2_ 3_ 4_ 5_		0-0.7 black word chips - 1 silt, soft 0.7-1.3 dark brown to brown silt, face med-sand, from 1.3-2.0 med-sand, dark brown, 20% silt, firm To soft	SO-131-D-0.0/0.5 0.5/1.0 1.0/1.5 1.5/2.D portioned at surface interval for \$0.50-131-0.0/0.5 a) D	

OTES:	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