

If Interim report, Subject to Change as Additional Information Becomes Available If Interim Report, this Report is cumulative, containing information from previous reports in addition to new information and may change SPLP PENNSYLVANIA PIPELINE PROJECT

HORIZONTAL DIRECTIONAL DRILLING – INADVERTENT RETURN REPORT FORM

INTERIM REPORT	NOTES: spray remaining bentonite pockets within stream S-H10 (UNT to Marsh Creek). On 8/11/20/20, a subsidence teature was discovered at the location of the inadvertent return, within										
DEDODT DATE.	Current as of 0/21/20										
REPORT DATE: 0			D 1		ALIGNMENT #	PA-CH-100.0000-RD					
		ilford Rd./Little Conestog			COMPANY:	Michels Directional Crossing					
LOCATION:	AND TIME WHEN	IR WAS INITIALLY I	DISCOVERED		DATE:	8/10/2020	TIME:	1530			
STREET 2	427-423 Green Valley	y Rd, Downingtown, PA	19335	MUN	ICIPALITY:	Upper Uwchlan	COUNTY:	Chester			
LATITUDE: 4	40.0794	LONGITUDE:	-75.7104	FRO	M STATION:	14824+00	TO STATION	14824+00			
STREAM NAME: S-H10 (UNT to Marsh Creek), S-H11 (UNT to			to Marsh Creek) POND / LAKE NAME:			Pond H3 (Marsh Creek Reservoir)	WETLAND NAM	E: WL-H17 (PEM, PFO)			
DEP PERMIT Nos.	E&S Permit # ESG01	.00015001, Water Obstr	action Permit E15-862			<u> </u>	I				
(102 AND 105) CORPS PERMIT		11.10.0017)									
NO.	PASPGP-5 (issued Ap	pril 12, 2017)									
IR TRACKING ID:	PPP6_PA-CH-0100.0	0000-RD_MilfordRd_IR	Interim_06_092220								
IS AUGUST 8, 2017 ORDER	YES	LISTED IN WHICH	3	DESCRIP	TION IN EXHIBIT	HDDs for Reevaluation					
APPLICABLE?		EXHIBIT?									
			COMP	LETE THE 1	FOLLOWING OUES	STIONS IF APPLICABLE:					
			COMI		OLLOWING QUL	THE THE LEGISTICS					
1. IS THE IR ON-GO	OING? Provide date	es, times, and duration	NO	NOTE.				ed within WL-H17, and entered streams S-H11			
of all IRs.			NO	NOTE:	drilling was stopped.	C	10 and entered pond H3 (Marsh Cr	reek Reservoir). The IR ceased emerging after			
					On 8/10/20 at approx	kimately 1530 hours, approximately 7,	712 gallons of drilling fluid emerge	ed within WL-H17, and entered streams S-H11			
2. HAS THE IR CEA	SED? Provide date	e and time for each IR.	YES	NOTE:	and S-H10. The dril drilling was stopped.		10 and entered pond H3 (Marsh Cr	reek Reservoir). The IR ceased emerging after			
					drining was stopped.						
3. WHEN WAS DRII time for each IR.	LLING STOPPED?	Provide date and	Drilling was immediately stop	ped on 8/10/20	020 at approximately 1	530 hours.					
4. VOLUME OF IR (CURRENT ESTIM	IATE)?	Approximately 7,712 gallons								
4A. DOES THIS VOI	I TIME DELEACE D	DEDDECENIT A									
TOTAL VOLUME R			YES NOTE: Approximately 7,712 gallons of drilling fluid emerged on 8/10/2020.								
BEGAN?											
5. HAS THIS VOLU		NCE THE LAST	NO	NOTE:							
REPORT? IF SO, H	OW?										
6. WHAT IS THE DU	URATION OF EAC	H IR? Provide dates	The ID coesed emerging on 9/	10/2020 at 15	20 hours often the ID w	vas disagramad and duilling vyas stannas	1				
and times.			The IR ceased emerging on 8/	10/2020 at 13.	oo nours after the rk w	as discovered and drilling was stopped	J.				
7. WHAT STEPS WE Provide dates and time		ΓΟΡ EACH IR?	Two turbidity curtains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). Ten sand bag and silt fence dams were constructed within S-H10 (UNT to Marsh Creek). Crew members began clean up and recovery of the drilling fluid starting at the location of the IR release point working their way towards pond H3 (Marsh Creek Reservoir). Crew members used pumps and hand tools to recover the drilling fluid and transport it to onsite storage tanks. Stream water was pumped and used to spray remaining bentonite pockets within stream S-H10 (UNT to Marsh Creek).								
8. WHAT REVISION IMPLEMENTED PR DRILLING? Provide	RIOR TO EACH RE										
8a. What was the tech		ming drilling9									
oa. was the tech	mncai vasis ivi Tesul	mmg ur mmg i									
9. WAS THE DRILL and duration for each		Provide dates, times,	NO	NOTE:							
9A. IF SO, HAS ANC dates and times for ea		RED? If YES, provide	NO	NOTE:							
10. HAS IR BEEN Co		S, Provide dates,	YES	NOTE:	Two turbidity curtains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). Ten and silt fence dams were constructed within S-H10 (UNT to Marsh Creek) on 8/10/2020.						
11. HAS A FISH KIL times, and measures f		YES, Provide dates,	NO	NOTE:							
12. ARE FISH AND ODISTRESS?	OR OTHER AQUA	TIC LIFE IN	NO	NOTE:							
13. AS OF THE DAT FLUID REMAIN IN WATERCOURSE?		RT, DOES DRILLING OR	YES	NOTE:	Drilling fluid remain	s in pond H3 (Marsh Creek Reservoir)					
14. IS THERE NOTI TURBIDITY IN THI dates, times, and dura	E WATERCOURSE		YES	YES NOTE: Drilling fluid remains in pond H3 (Marsh Creek Reservoir)							
15. HAS FLUID LOS Provide dates, times,	`	,	YES	NOTE:	500 gallon loss on 3/	3/2020.					
16. CORRECTIVE M PREVIOUSLY LIST each IR.		EMENTED NOT de dates and times for									

17. DESCRIPTION OF IMPACTS INCLUDING TIMES, DATES, AND DURATION OF EACH IMPACT.

Drilling fluid emerged within wetland WL-H17, and entered streams S-H11 and S-H10. The drilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir) on 8/10/20.

	LIST AN	NY NOTIFICATIONS OF INCIDENT MAI	DE TO WATER INTAKES,	WATER WE	LL OWNERS AND	LANDOWNER	S, INCLUDIN	G DATE AND	TIME WHEN EACH NO	OTIFICATION OCCURRED:
	NAME:	2 Private Well Owners	DATE:	8/11/2020	TIME:		PUBLIC OR PRIVATE:	Private	NOTE:	Letters sent.
	NAME:	1 Public Water Supply	DATE:	8/10/2020	TIME:	1625	PUBLIC OR PRIVATE:	Public	NOTE:	Informed of release on 8/10, letter sent on 8/11.
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:	
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:	
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:	
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:	
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:	
		NAN	ME OF ALL PERSON(S) PR	OVIDING IN	NFORMATION FOR	R THIS REPOR		ACT INFORM	IATION	
	NAME:	Josh Prosceno	PHONE:	570-336-9606		EMAIL:	josh.prosceno@	@tetratech.com	TITLE:	LEI
	NAME:	Chris Cable	PHONE:	518-533-9847	,	EMAIL:	chris.cable@te	etratech.com	TITLE:	Environmental Inspection Manager
	NAME:		PHONE:			EMAIL:			TITLE:	
	NAME:		PHONE:			EMAIL:			TITLE:	
	NAME:		PHONE:			EMAIL:			TITLE:	
				I	MPACTED RESOU	JRCE(S)				
	RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR	Pl	EM/PFO	WHAT STEPS I ELIMINATE O			Sandbag and silt fence con Drilling fluid recovered us:	ing hand tools and pumps.
	RESOURCE:	STREAM S-H10	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAIN	IS TO HQ-TSF	IMPACTS? WHAT STEPS I ELIMINATE O			Sandbag and silt fence con Drilling fluid recovered us:	tainments constructed within stream. ing hand tools and pumps.
	RESOURCE:	STREAM S-H11	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAIN	IS TO HQ-TSF	IMPACTS? WHAT STEPS I ELIMINATE O IMPACTS?			Sandbag and silt fence con Drilling fluid recovered us:	ing hand tools and pumps.
	RESOURCE:	POND H3	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	I	HQ-TSF	WHAT STEPS I ELIMINATE O IMPACTS?			Two turbidity curtains wer pond H3.	re installed at the confluence of S-H10 and
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?				
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?				
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?				
			WEILAND III E.	AD	DITIONAL INFOR					
		SUMED DOES IT INVOLVE A CHANGE IENT, DEPTH OR ALIGNMENT?	NO	NOTE:						
	PUBLIC OR PRIVA	ATE WATER SUPPLY - PROXIMITY TO STREAM WATER INTAKES?		NOTE:						
	PROXIMITY	TO PUBLIC OR PRIVATE WATER UPPLIES AND WELLS?	YES	NOTE:						
			A mixture of bentonite clay an	d water with n	native cuttings					
		IATED QUANTITY OF THE RELEASE CE THE LAST REPORT? IF SO, HOW?	YES	NOTE:	Approximately 7,712	2 gallons of drilling	ng fluid emerged	d on 8/10/2020.		
			8/10/2020 - 25'x25' at initial I	R release locat	tion					
EXTENT (LINEAR FEET/MILES) OF DOWNSTREAM EDGE OF RELEASE, IF ANY			IR traveled approximately 1,800 feet downstream from S-H10 (UNT to Marsh Creek) into pond H3 (Marsh Creek Reservoir). Extent into pond H3 (Marsh Creek Reservoir) unknown.							
	DESCR	RIBE ROOT CAUSE(S) OF IR								
		NTS: NOTE ANY MATERIAL CHANGE RMATION FROM PRIOR REPORTS)								
			8/10/2020 - Sandbag and silt for confluence of S-H10 and pond		•					0. Two turbidity curtains installed at the
			PRINTED NAME, T	ITLE AND SI	IGNATURE OF PE	RSON(s) COMP	LETING THIS	S REPORT		
	NAME:	Chris Cable TITLE:	Environmental Inspection Mar	nager	SIGNATURE:	Christophe	ref Cabla	DATE:	9/22/2020	
					PADEP USE ON					
	ΑΙΓΓΙΩΝΙΖΑΓΙΩ	N FROM DANED OD CON TO DESUME			I ADEP USE UN					
	AUIHUKIZATIO	N FROM PADEP OR CCD TO RESUME HDD REQUIRED?		NOTE:						
	PI	ERMIT AMENDMENT?		NOTE:						
	PADEI	P / CCD REVIEWER NAME:			DATE:					



SPLP PENNSYLVANIA PIPELINE PROJECT HORIZONTAL DIRECTIONAL DRILLING – INADVERTENT RETURN REPORT FORM

IV. PHOTO DOCUMENTATION





View of drilling fluid within WL-H17 at location of IR release point.

Notes:

8/10/2020

View of drilling fluid flowing downstream within stream S-H10 (UNT to Marsh Creek).

8/10/2020

Notes:

8/10/2020

8/10/2020

8/17/2020





View of drilling fluid within stream S-H10 (UNT to Marsh Creek).

View of drilling fluid entering pond H3 (Marsh Creek Reservoir).

8/10/2020

Notes:





Notes:

View of contractor crew members installing two turbidity curtains at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

Notes:

View of IR release location within WL-H17.

8/17/2020

Notes:





Notes:

View of sandbag containment within S-H10 (UNT to Marsh Creek).

View of stream S-H10 (UNT to Marsh Creek) following cleanup.

8/17/2020



SPLP PENNSYLVANIA PIPELINE PROJECT HORIZONTAL DIRECTIONAL DRILLING – INADVERTENT RETURN REPORT FORM





otes: Notes:

View of stream S-H10 (UNT to Marsh Creek) following cleanup.

View of stream S-H10 (UNT to Marsh Creek) following cleanup.

8/17/2020





Notes:

View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

View of pond H3 (Marsh Creek Reservoir).

Notes:

Notes:

8/17/2020





Notes:

View of IR release location within WL-H17.

View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

8/22/2020





Notes:

View of pond H3 (Marsh Creek Reservoir).

8/24/2020

View of stream S-H10 (UNT to Marsh Creek)

8/24/2020

Notes:



SPLP PENNSYLVANIA PIPELINE PROJECT HORIZONTAL DIRECTIONAL DRILLING – INADVERTENT RETURN REPORT FORM





View of IR release location and containment within WL-H17.

View of stream S-H10 (UNT to Marsh Creek)

Notes:

Notes:

Notes:

9/5/2020

Notes:

8/31/2020





Notes: View of stream S-H10 (UNT to Marsh Creek)

View of pond H3 (Marsh Creek Reservoir).

8/31/2020





View of IR release location and containment within WL-H17.

View of stream S-H10 (UNT to Marsh Creek)

9/4/2020





View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

View of stream S-H10 (UNT to Marsh Creek) 9/14/2020

9/14/2020

Notes:



SPLP PENNSYLVANIA PIPELINE PROJECT HORIZONTAL DIRECTIONAL DRILLING – INADVERTENT RETURN REPORT FORM





Notes: Notes:

View of IR release location and containment within WL-H17.

9/21/2020

View of stream S-H10 (UNT to Marsh Creek)

PRINTED NAME, TITLE AND SIGNATURE OF PERSON(s) COMPLETING THIS REPORT

NAME:	Chris Cable	TITLE:	Environmental Inspection Manager	SIGNATURE:	Christopher Gable	DATE:	9/22/2020

