

# 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	IF INTERIM, SEE NOTE ABOVE.	NOTES:	Interim Report 1: On 8/10/2020 at approximately 1530 hours, 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). The drill was in the ream phase at the time of release, with a volume of 7,712 gallons of drilling fluid released (The initial notification of the inadvertent return was estimated to be 1,000 gallons. This estimate was provided by the onsite PG and was based on the surface dimensions of the emergence, approximately 10' x 20' and several inches deep. The number was revised after discussion with the driller and collection of survey data.). In the initial IR report, the amount was calculated to be 8,163 gallons, since that initial report, the driller performed more precise calculations to determine the approximate volume of drilling mud released was 7,712 gallons; that calculation was provided to the department on 8/14/2020 via email. Drilling was immediately stopped upon discovery of the 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). On 8/11/2020, a subsidence feature was discovered at the location of the inadvertent return, within wetland WL-H17. On 8/12/2020 the subsidence was filled with approximately 26 cubic yards of flowable fill. As of 8/17/2020, one containment dam remains within S-H10, the containment structure remains in place at the initial IR location, and two turbidity curtains remain at the confluence of stream S-H10 an										
REPORT DATE:	Current as of 8/17/202	20	HDD ALIGNMENT #			PA-CH-100.0000-RD							
PROJECT SITE:	PPP 6 - S3-0290 - Mi	lford Rd./Little Conestog	oga Rd HDD COMPANY:			Michels Directional Crossing							
DATE	AND TIME WHEN I	IR WAS INITIALLY I	DISCOVERED	DATE:		8/10/2020 TIME: 1530							
LOCATION: 427 422 C WILL DID DA													
STREET 427-423 Green Valley Rd, Downingtown, PA			19335	MUNICIPALITY:		Upper Uwchlan	COUNTY:	Chester					
LATITUDE: 40.0794 LONGITUDE:			-75.7104	FRO	M STATION:	15343+00	TO STATION	14824+00					
STREAM NAME: S-H10 (UNT to Marsh Creek), S-H11 (UNT			o Marsh Creek)	POND /	LAKE NAME:	Pond H3 (Marsh Creek Reservoir)	WETLAND NAME:	WL-H17 (PEM, PFO)					
(102 AND 105)  CORPS PERMIT		00015001, Water Obstru	action Permit E15-862										
NO.	NO. PASPGP-5 (issued April 12, 2017)												
IR TRACKING ID: PPP6_PA-CH-0100.0000-RD_MilfordRd_IRInterim_01_081820													
IS AUGUST 8, 2017		LISTED IN WHICH											
ORDER APPLICABLE?	YES	EXHIBIT?	3	DESCRIPTION IN EXHIBIT		HDDs for Reevaluation							
ATTLICABLE:													
COMPLETE THE FOLLOWING QUESTIONS IF APPLICABLE:													
1. IS THE IR ON-GO of all IRs.	OING? Provide date	es, times, and duration	NO	NOTE: On 8/10/20 at approximately 1530 hours, approximately 7,712 gallons of drilling fluid emerged within WL-H17, and entered stream and S-H10 (initial reporting miscalculated 8,163 gallons). The drilling fluid continued to flow down S-H10 and entered pond H3 (M Reservoir). The IR ceased emerging after drilling was stopped.									
2. HAS THE IR CEA	ASED? Provide date	and time for each IR.	YES	NOTE:	and S-H10 (initial rep	n 8/10/20 at approximately 1530 hours, approximately 7,712 gallons of drilling fluid emerged within WL-H17, and entered streams S-H11 and S-H10 (initial reporting miscalculated 8,163 gallons). The drilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek eservoir). The IR ceased emerging after drilling was stopped.							
3. WHEN WAS DRI time for each IR.	LLING STOPPED?	Provide date and	530 hours.										
4. VOLUME OF IR	(CURRENT ESTIM	ATE)?	Approximately 7,712 gallons										
4A. DOES THIS VO TOTAL VOLUME I BEGAN?			YES	YES NOTE: Approximately 7,712 gallons of drilling fluid emerged on 8/10/2020 (initial reporting miscalculated 8,163 gallons).									
5. HAS THIS VOLU REPORT? IF SO, H		NCE THE LAST	NO	NOTE:									
6. WHAT IS THE Diand times.	URATION OF EAC	H IR? Provide dates	The IR ceased emerging on 8/10/2020 at 1530 hours after the IR was discovered and drilling was stopped.										
7. WHAT STEPS WE Provide dates and tire			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 PLANT DRILLING? Providence of the control of the con	RIOR TO EACH RE												
8a. What was the tec		ming drilling?											
9. WAS THE DRILL and duration for each		Provide dates, times,	NO	NOTE:									
9A. IF SO, HAS ANO dates and times for e		RED? If YES, provide	NO	NOTE:									
10. HAS IR BEEN CONTAINED? If YES, Provide dates, times, and measures for each IR.			YES	NOTE:		ains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). Ten sand be were constructed within S-H10 (UNT to Marsh Creek) on 8/10/2020.							
11. HAS A FISH KII times, and measures		YES, Provide dates,	NO	NOTE:	<b>E:</b>								
12. ARE FISH AND DISTRESS?	OR OTHER AQUA	TIC LIFE IN	NO	NOTE:									
13. AS OF THE DATE FLUID REMAIN IN WATERCOURSE?		RT, DOES DRILLING OR	YES	NOTE: Drilling fluid remains in pond H3 (Marsh Creek Reservoir)									
14. IS THERE NOTI TURBIDITY IN THE dates, times, and dur	E WATERCOURSE		YES	NOTE: Drilling fluid remains in pond H3 (Marsh Creek Reservoir)									
15. HAS FLUID LOS Provide dates, times,	`	,	YES	NOTE:	OTE: 500 gallon loss on 3/3/2020.								
16. CORRECTIVE MEASURES IMPLEMENTED NOT PREVIOUSLY LISTED ABOVE? Provide dates and times for each IR.													

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.

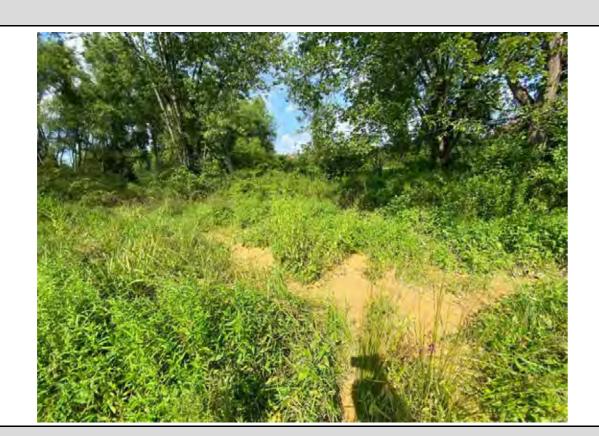
	LIST AN	NY NOTIFICATIONS OF INCIDENT MAI	DE TO WATER INTAKES,	WATER WE	LL OWNERS AND	LANDOWNER	S, INCLUDIN	G DATE AND	TIME WHEN EACH NO	OTIFICATION OCCURRED:	
	NAME:	2 Private Well Owners	DATE:	8/11/2020	TIME:		PUBLIC OR PRIVATE:	Private	NOTE:	Letters sent.	
	NAME:	1 Public Water Supply	DATE:	8/10/2020	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:		
NAME OF ALL PERSON(S) PROVIDING INFORMATION FOR THIS REPORT AND CONTACT INFORMATION											
	NAME:	Josh Prosceno	PHONE:	josh.prosceno@tetratech.com							
	NAME:	Chris Cable	PHONE: 518-533-9847		EMAIL:	chris.cable@tetratech.com TITLE		TITLE:	Environmental Inspection Manager		
	NAME:		PHONE:	ONE:		EMAIL:	TITLE:		TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
IMPACTED RESOURCE(S)											
	RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR	PEM/PFO		ELIMINATE O	NATE OR MITIGATE THE		Sandbag and silt fence con Drilling fluid recovered usi	tainment constructed at release point. Ing hand tools and pumps.	
	RESOURCE:	STREAM S-H10	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAINS TO HQ-TSF		ELIMINATE O	TEPS HAVE BEEN TAKEN TO ATE OR MITIGATE THE		Sandbag and silt fence con Drilling fluid recovered usi	tainments constructed within stream. Ing hand tools and pumps.	
	RESOURCE:	STREAM S-H11	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAINS TO HQ-TSF			STEPS HAVE BEEN TAKEN TO ATE OR MITIGATE THE		Sandbag and silt fence con Drilling fluid recovered usi	tainments constructed within stream. Ing hand tools and pumps.	
	RESOURCE:	POND H3	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	HQ-TSF						e installed at the confluence of S-H10 and	
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE IMPACTS?					
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE 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 JENT DEPTH OR ALICNMENT?	NO	NOTE:							
IN EQUIPMENT, DEPTH OR ALIGNMENT?  PUBLIC OR PRIVATE WATER SUPPLY - PROXIMITY TO DOWNSTREAM WATER INTAKES?			NOTE:								
PROXIMITY TO PUBLIC OR PRIVATE WATER SUPPLIES AND WELLS?		YES	NOTE:								
			A mixture of bentonite clay an	nd water with n	native cuttings						
HAS THE ESTIMATED QUANTITY OF THE RELEASE INCREASED SINCE THE LAST REPORT? IF SO, HOW?		V R.S. NOTR. Approximately / /1/ gallons of drilling filling emerged on X/10/20/01									
ESTIMATED AERIAL EXTENT OF RELEASE			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)									
HAVE THE IMPACTS FROM THE IR BEEN REMEDIATED? Please provide date of remediation.  8/10/2020 - Sandbag and silt fence containment set up at IR location. Ten sandbag and silt fence containments constructed within stream S-H10. Two turbidity curtains installed at confluence of S-H10 and pond H3. Drilling fluid recovered using hand tools and pumps. As of 8/17/2020, drilling fluid remains in pond H3.									0. Two turbidity curtains installed at the		
PRINTED NAME, TITLE AND SIGNATURE OF PERSON(s) COMPLETING THIS REPORT											
	NAME:	Chris Cable TITLE:	Environmental Inspection Mar	nager	SIGNATURE:	Christopho	ref Cabla	DATE:	8/18/2020		
NAME: Chris Cable TITLE: Environmental Inspection Manager SIGNATURE: Chiefpherf Cable DATE: 8/18/2020  PADEP USE ONLY											
	<b>ΛΙΙΤΗΛΟΙΖΑ ΤΙΛ</b> Ι	N FROM PADEP OR CCD TO RESUME			TADEF USE UN						
	AUTHORIZATIO	HDD REQUIRED?		NOTE:							
	PI	ERMIT AMENDMENT?		NOTE:							
PADEP / CCD REVIEWER NAME:					DATE:						



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IV. PHOTO DOCUMENTATION





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

8/10/2020

View of drilling fluid flowing downstream within stream S-H10 (UNT to Marsh Creek). 8/10/2020

Notes:





Notes: 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

8/10/2020

Notes:





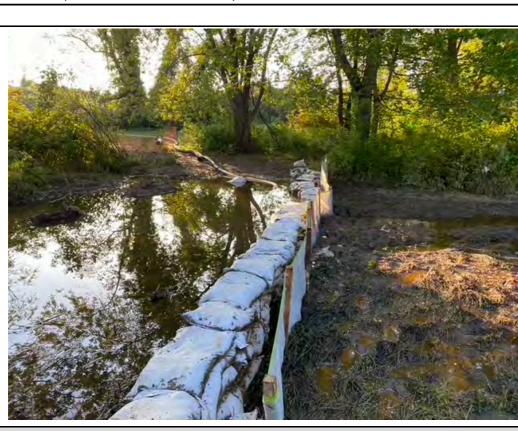
View of contractor crew members installing two turbidity curtains at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

View of IR release location within WL-H17.

8/17/2020

Notes:

Notes:





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

8/10/2020

8/17/2020

View of stream S-H10 (UNT to Marsh Creek) following cleanup. 8/17/2020



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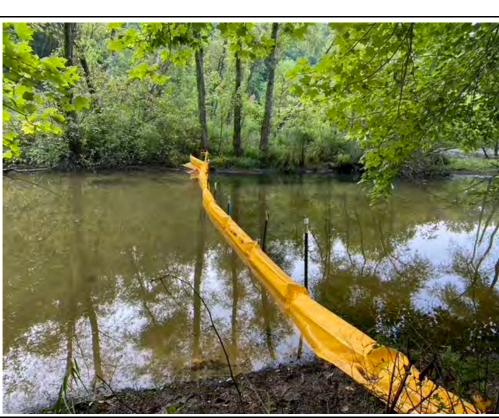


Notes: Notes:

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).

8/17/2020

View of pond H3 (Marsh Creek Reservoir).

8/17/2020

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

NAME: Chris Cable TITLE: Environmental Inspection Manager SIGNATURE: Christopherf Cable DATE: 8/18/2020

Notes:

