

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:	down S-H10 and entered pond notification of the inadvertent approximately 10' x 20' and se of the IR. Two turbidity curtai constructed within S-H10 (UN pond H3 (Marsh Creek Reservance spray remaining bentonite pock WL-H17. On 8/12/2020 the structure remains in place at the H11 and S-H10. Additional stremains in place at the initial I H10. As of 11/9/2020, addition modification approval. Geoph	H3 (Marsh Creturn was estable veral inches dens were installed to Marsh Crew marsh. Crew marsh cubsidence was the initial IR location and environments of the control of th	Creek Reservoir). The dimated to be 1,000 gall leep. The number was reled at the confluence of creek). Crew members embers used pumps and ream S-H10 (UNT to Not stilled with approximate cation, and two turbidity ogress to implement a red two turbidity curtains and anomaly proofing in and anomaly proofing it.	rill was in the ream phase at the tirdons. This estimate was provided be revised after discussion with the drift S-H10 (UNT to Marsh Creek) and began clean up and recovery of the hand tools to recover the drilling farsh Creek). On 8/11/2020, a substely 26 cubic yards of flowable fill ty curtains remain at the confluence ecovery plan for drilling fluid withing remain at the confluence of stream and the confluence of stream are being completed and resonance are being completed and resonance.	me of release, with a volume of 7,712 gallory the onsite PG and was based on the surfiller and collection of survey data.). Drilling d pond H3 (Marsh Creek Reservoir). Tende drilling fluid starting at the location of the fluid and transport it to onsite storage tank posidence feature was discovered at the local. As of 8/17/2020, one containment dample of stream S-H10 and pond H3. Drilling in pond H3. No drilling is in process. As on S-H10 and pond H3. Drilling fluid has besults are being compiled. Driller is prepping mental Inspector (EI), Professional Geological contents and the surface of the surf	face dimensions of the emergence, ng was immediately stopped upon discovery sand bag and silt fence dams were e IR release point working their way towards as. Stream water was pumped and used to ation of the inadvertent return, within wetland remains within S-H10, the containment fluid has been recovered from WL-H17, S-f 8/31/2020, the containment structure been recovered from WL-H17, S-H11, and S-ng for grout of annulus, awaiting minor			
REPORT DATE:	Current as of 11/9/202				LIGNMENT #	PA-CH-100.0000-RD					
		lford Rd./Little Conestog				Michels Directional Crossing					
		IR WAS INITIALLY I				8/10/2020	TIME:	1530			
I OCATION:		y Rd, Downingtown, PA				Upper Uwchlan	COUNTY:	Chester			
SIREEI	-				M STATION:	14824+00	TO STATION	14824+00			
	LATITUDE: 40.0794 LONGITUDE: -75.7104										
DED DEDMIT Nos	`	h Creek), S-H11 (UNT to	,	POND /	LAKE NAME:	Pond H3 (Marsh Creek Reservoir	WETLAND NAME:	WL-H17 (PEM, PFO)			
(102 AND 105)	E&S Permit # ESG010	00015001, Water Obstru	action Permit E15-862								
CORPS PERMIT NO.	PASPGP-5 (issued Ap	oril 12, 2017)									
	PPP6_PA-CH-0100.0	000-RD_MilfordRd_IRI	Interim_13_111020								
IS AUGUST 8, 2017		LISTED IN WHICH									
ORDER APPLICABLE?	YES	EXHIBIT?	3	DESCRIP	FION IN EXHIBIT	HDDs for Reevaluation					
			COMP	LETE THE	FOLLOWING QUES	STIONS IF APPLICABLE:					
1. IS THE IR ON-GO of all IRs.	OING? Provide date	es, times, and duration	NO	NO NOTE: On 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. The drilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir). The IR ceased emerging after drilling was stopped.							
2. HAS THE IR CEA	2. HAS THE IR CEASED? Provide date and time for each IR.			NOTE:	On 8/10/20 at approx and S-H10. The drill	ximately 1530 hours, approximately ling fluid continued to flow down S		vithin WL-H17, and entered streams S-H11 Reservoir). The IR ceased emerging after			
3. WHEN WAS DRI time for each IR.	LLING STOPPED?	Provide date and	Drilling was immediately stopped on 8/10/2020 at approximately 1530 hours.								
4. VOLUME OF IR	4. VOLUME OF IR (CURRENT ESTIMATE)?			Approximately 7,712 gallons							
4A. DOES THIS VOLUME RELEASE REPRESENT A TOTAL VOLUME RELEASED SINCE THE RELEASE BEGAN?			YES NOTE: Approximately 7,712 gallons of drilling fluid emerged on 8/10/2020.								
5. HAS THIS VOLUME CHANGED SINCE THE LAST REPORT? IF SO, HOW?			NO NOTE:								
6. WHAT IS THE Dand 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? Providen	RIOR TO EACH RE										
8a. What was the tec	hnical basis for resur	ming drilling?									
9. WAS THE DRILI 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.			NOTE:		curtains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). Ten sand ldams were constructed within S-H10 (UNT to Marsh Creek) on 8/10/2020.					
	11. HAS A FISH KILL OCCURRED? If YES, Provide dates, times, and measures for each IR.			NOTE:							
12. ARE FISH AND DISTRESS?	12. ARE FISH AND OR OTHER AQUATIC LIFE IN DISTRESS?			NOTE:							
	13. AS OF THE DATE OF THIS REPORT, DOES DRILLING FLUID REMAIN IN THE WETLAND OR WATERCOURSE?			NOTE:	Drilling fluid remains	s in pond H3 (Marsh Creek Reserv	oir)				
TURBIDITY IN TH	14. IS THERE NOTICEABLE HIGH LEVELS OF TURBIDITY IN THE WATERCOURSE? If YES, Provide dates, times, and duration for each IR.			NOTE:	Drilling fluid remains	s in pond H3 (Marsh Creek Reserv	oir)				
	15. HAS FLUID LOSS OCCURRED? (IF KNOWN) If YES, Provide dates, times, and duration for each loss of fluid.			YES NOTE: 500 gallon loss on 3/3/2020.							
16. CORRECTIVE IN 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	FORMATION FO	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	RCE(S)				
	RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR	P]	EM/PFO	WHAT STEPS I ELIMINATE O			Sandbag and silt fence con Drilling fluid recovered us	tainment constructed at release point. ing hand tools and pumps.
	RESOURCE:	STREAM S-H10	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAIN	S 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	DRAIN	S 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:	POND H3	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	I	HQ-TSF	IMPACTS? WHAT STEPS I ELIMINATE O			Two turbidity curtains wer pond H3.	re installed at the confluence of S-H10 and
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			IMPACTS? WHAT STEPS I ELIMINATE O				
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			IMPACTS? WHAT STEPS I ELIMINATE O				
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			IMPACTS? WHAT STEPS I ELIMINATE O				
			WETLAND TYPE:	AD	DITIONAL INFOR	IMPACTS?				
	IF DRILLING RES	SUMED DOES IT INVOLVE A CHANGE	NIO							
		IENT, DEPTH OR ALIGNMENT? ATE WATER SUPPLY - PROXIMITY TO	NO	NOTE:						
		TO PUBLIC OR PRIVATE WATER		NOTE:						
		UPPLIES AND WELLS?	YES	NOTE:						
			A mixture of bentonite clay an	nd water with n	ative cuttings					
		IATED QUANTITY OF THE RELEASE CE THE LAST REPORT? IF SO, HOW?	YES	NOTE:	Approximately 7,71	2 gallons of drillin	ng fluid emerged	d on 8/10/2020.[
	ESTIMATEI	D AERIAL EXTENT OF RELEASE	8/10/2020 - 25'x25' at initial I	R release locat	tion					
	`	AR FEET/MILES) OF DOWNSTREAM GE OF RELEASE, IF ANY	IR traveled approximately 1,8	00 feet downst	ream from S-H10 (U	NT to Marsh Cree	ek) into pond H3	8 (Marsh Creek	Reservoir). Extent into pon	d 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 to 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	PLETING THIS	S REPORT		
	NAME:	Chris Cable TITLE:	Environmental Inspection Man	nager	SIGNATURE:	Christophe	nef Cable	DATE:	11/10/2020	
					PADEP USE ON					
	ATTUODIZ ATTO	N FPAM DANED AD CON TA DECLIMA			I ADEL USE UN					
	AUINUKIZATIO	N FROM PADEP OR CCD TO RESUME HDD REQUIRED?		NOTE:						
	PI	ERMIT AMENDMENT?		NOTE:						
PADEP / CCD REVIEWER NAME:					DATE:					



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IV. PHOTO DOCUMENTATION



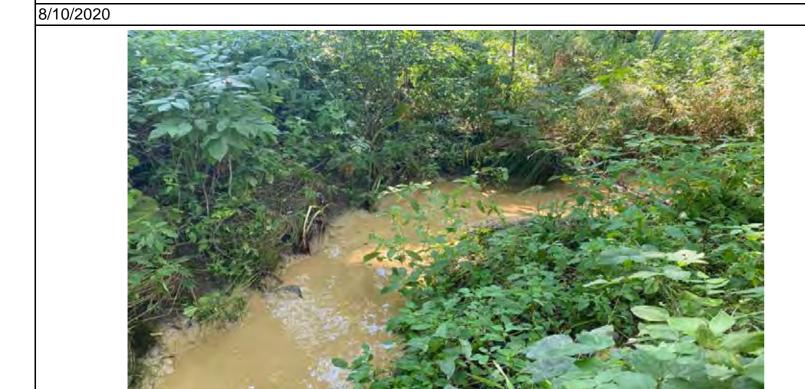


View of drilling fluid within WL-H17 at location of IR release point.

Notes:

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

8/10/2020





Notes:

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

8/10/2020

8/10/2020

Notes:

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

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).

8/17/2020

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

8/17/2020



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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

8/17/2020

Notes:





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:

8/17/2020

Notes:

Notes:





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

8/22/2020

8/24/2020

8/17/2020





Notes: View of pond H3 (Marsh Creek Reservoir).

View of stream S-H10 (UNT to Marsh Creek) 8/24/2020



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

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

8/31/2020

Notes:

8/28/2020



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

View of pond H3 (Marsh Creek Reservoir).

8/31/2020

Notes:

Notes:

9/5/2020





Notes:

9/4/2020

8/31/2020

View of stream S-H10 (UNT to Marsh Creek) View of IR release location and containment within WL-H17.





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

Reservoir). 9/14/2020

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

Notes:



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

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

9/21/2020

9/21/2020

Notes:





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

Notes:

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

9/28/2020

9/28/2020





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

Notes:

10/5/2020

10/19/2020

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

10/12/2020

Notes:





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



Notes: View of IR release location and containment within WL-H17. 10/26/2020



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Notes:

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

11/2/2020				11/9/2020					
PRINTED NAME, TITLE AND SIGNATURE OF PERSON(s) COMPLETING THIS REPORT									
NAME:	Chris Cable	TITLE:	Environmental Inspection Manager	SIGNATURE:	Christopher Gable	DATE:	11/10/2020		

