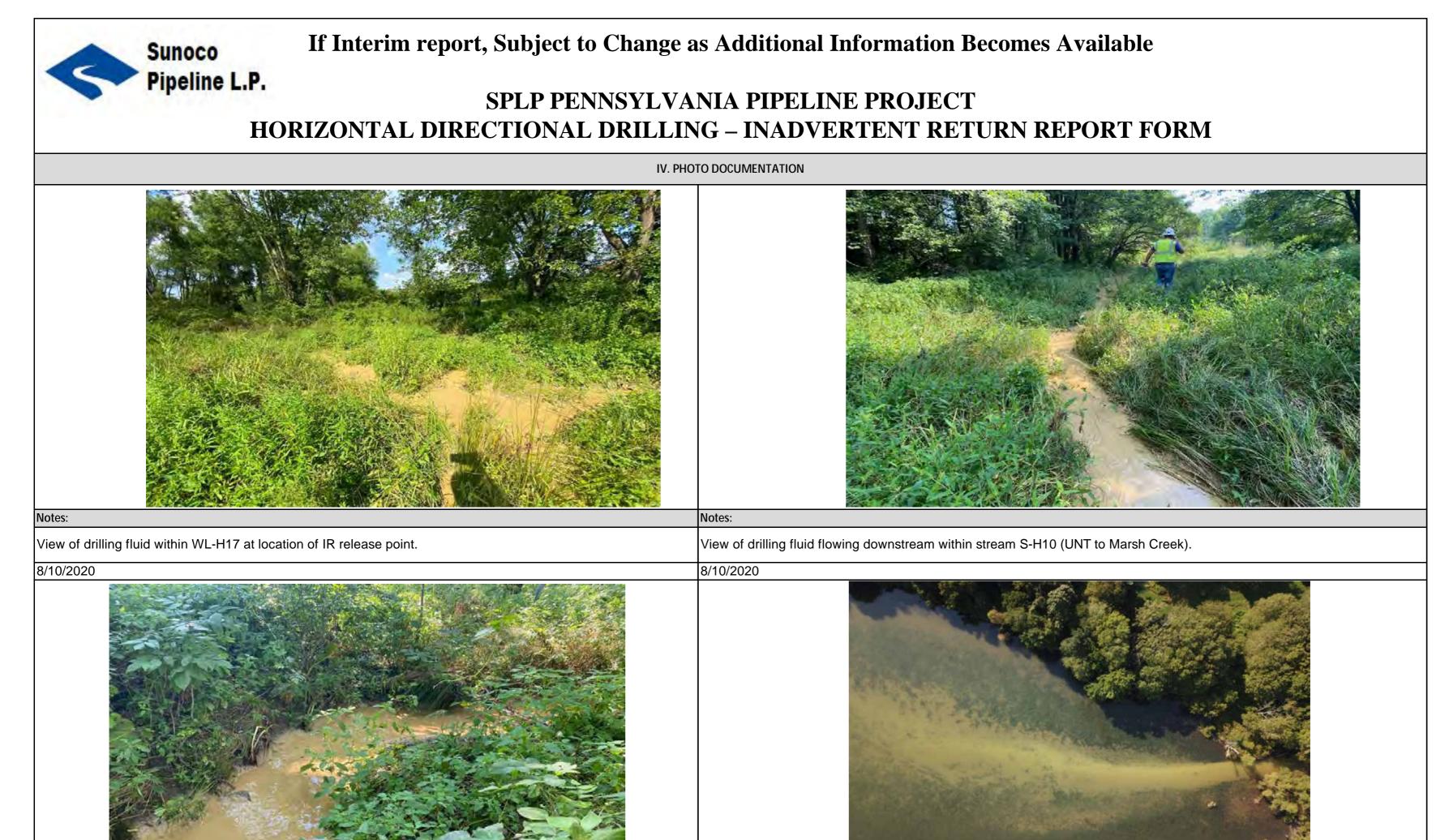
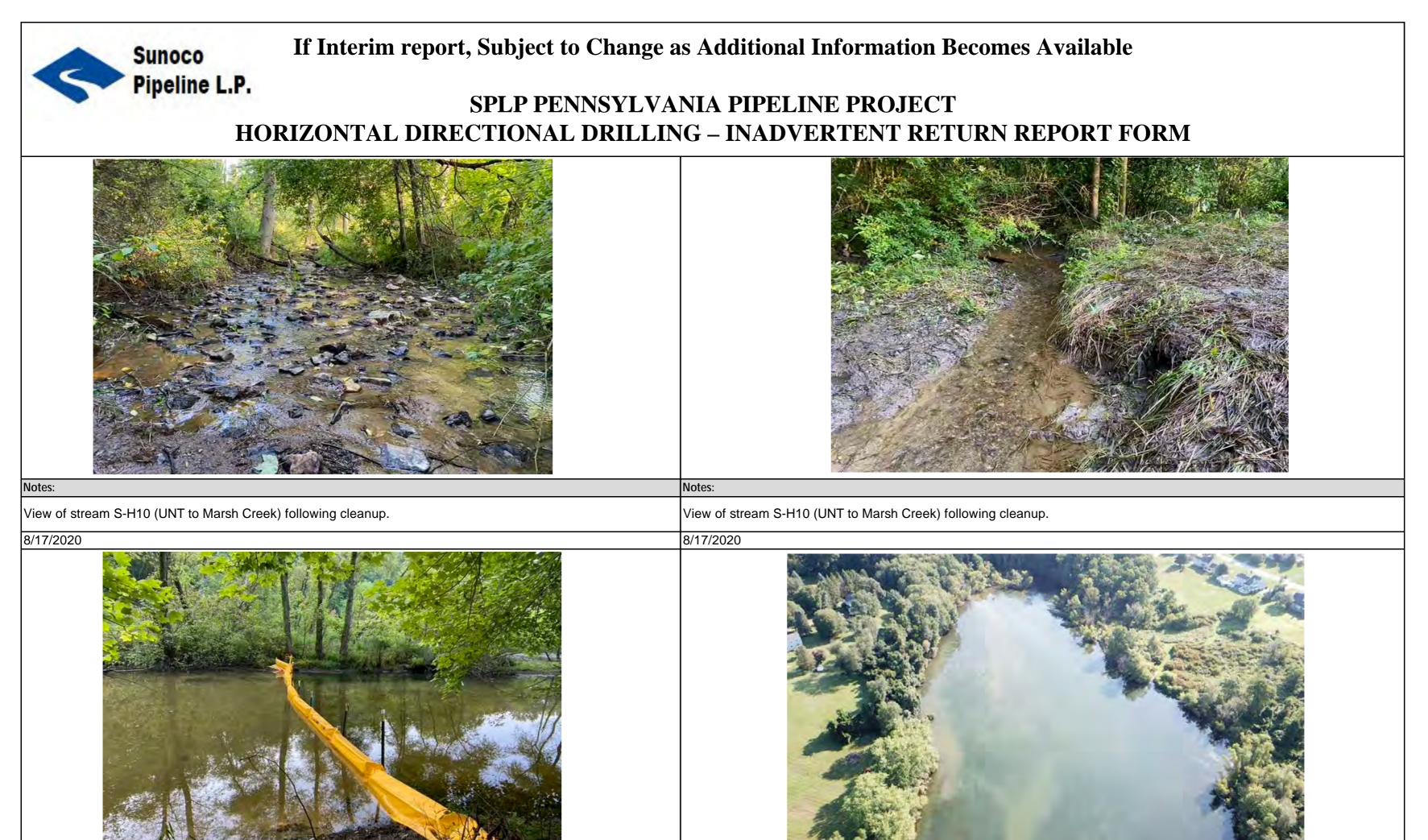
	Sunoco Pipeline L.P.	If Interim Rep	port, this Report is cumulati	ive, containing SPLP PEN	information from p INSYLVANIA PIPE	nal Information Becomes Available previous reports in addition to new inform ELINE PROJECT DVERTENT RETURN REPORT FORM		
	IF INTERIM, SEE NOTE ABOVE.	NOTES:	down S-H10 and entered por notification of the inadverter approximately 10' x 20' and of the IR. Two turbidity curt constructed within S-H10 (U pond H3 (Marsh Creek Rese spray remaining bentonite po WL-H17. On 8/12/2020 the structure remains in place at H11 and S-H10. Additional remains in place at the initia H10. As of 12/22/2020, add modification approval. Geop monitor the IR/subsidence lo	nd H3 (Marsh C nt return was est several inches c cains were instal JNT to Marsh C ervoir). Crew m ockets within str e subsidence wa the initial IR loc the initial IR loc l survey is in pro- l IR location an litional environm physical survey ocation as well a 41 cubic yards of ey was complete	Creek Reservoir). The timated to be 1,000 ga deep. The number was led at the confluence Creek). Crew members embers used pumps a ream S-H10 (UNT to as filled with approxim- ocation, and two turbic ogress to implement a d two turbidity curtai nental surveys and as and anomaly proofin as installed best mana of flowable fill within ed at this site. These	drilling fluid emerged within wetland WL-H e drill was in the ream phase at the time of re allons. This estimate was provided by the or s revised after discussion with the driller and of S-H10 (UNT to Marsh Creek) and pond rs began clean up and recovery of the drillin and hand tools to recover the drilling fluid an o Marsh Creek). On 8/11/2020, a subsidence nately 26 cubic yards of flowable fill. As of dity curtains remain at the confluence of strean recovery plan for drilling fluid within pond ns remain at the confluence of stream S-H10 sessments are being completed and results a g have been completed. The Environmental agement practices (BMPs). On 12/19/20 two the earth features. Feature one received 13 features, along with HDD S3-0290 alignme process.	elease, with a volume of 7,712 gallo nsite PG and was based on the surfa- d collection of survey data.). Drillin H3 (Marsh Creek Reservoir). Ten s g fluid starting at the location of the d transport it to onsite storage tanks e feature was discovered at the loca f 8/17/2020, one containment dam r eam S-H10 and pond H3. Drilling f H3. No drilling is in process. As of 0 and pond H3. Drilling fluid has b re being compiled. Driller is prepp Inspector (EI), Professional Geolo o earth features were discovered ne- cubic yards of flowable fill. Feature	ons of drilling fluid released (The initial ace dimensions of the emergence, ing was immediately stopped upon discover sand bag and silt fence dams were e IR release point working their way towar s. Stream water was pumped and used to tion of the inadvertent return, within wetla emains within S-H10, the containment fluid has been recovered from WL-H17, S- 8/31/2020, the containment structure een recovered from WL-H17, S-H11, and ing for grout of annulus, awaiting minor gist (PG) and Contractor will continue to ar the HDD S3-0290 drill alignment. The retwo recieved 28 yards of flowable fill.
REPORT DATE:	Current as of 12/22/20)20	_ I	HDD A	ALIGNMENT #	PA-CH-100.0000-RD		
PROJECT SITE:	PPP 6 - S3-0290 - Mi	lford Rd./Little Conesto	ga Rd	HDD	COMPANY:	Michels Directional Crossing		
DATE	AND TIME WHEN I	R WAS INITIALLY	DISCOVERED		DATE:	8/10/2020	TIME:	1530
LOCATION: STREET	427-423 Green Valley	Rd, Downingtown, PA	19335	MUN	NICIPALITY:	Upper Uwchlan	COUNTY:	Chester
LATITUDE:	40.0794	LONGITUDE:	-75.7104	FRO	M STATION:	14824+00	TO STATION	14824+00
STREAM NAME:	S-H10 (UNT to Mars	h Creek), S-H11 (UNT	to Marsh Creek)	POND	/ LAKE NAME:	Pond H3 (Marsh Creek Reservoir)	WETLAND NAME:	WL-H17 (PEM, PFO)
DEP PERMIT Nos. (102 AND 105)	E&S Permit # ESG01	00015001, Water Obstr	ruction Permit E15-862					
CORPS PERMIT NO.	PASPGP-5 (issued Ap	oril 12, 2017)						
	PPP6_PA-CH-0100.0	000-RD_MilfordRd_IR	Interim_19_122320					
IS AUGUST 8, 2017		LISTED IN WHICH						
ORDER APPLICABLE?	YES	EXHIBIT?	3	DESCRIP	TION IN EXHIBIT	HDDs for Reevaluation		
			COM	IPLETE THE	FOLLOWING QUI	ESTIONS IF APPLICABLE:		
l. IS THE IR ON-G of all IRs.	GOING? Provide date	s, times, and duration	NO	NOTE:	and S-H10. The dr	oximately 1530 hours, approximately 7,712 rilling fluid continued to flow down S-H10 a		
2. HAS THE IR CE	CASED? Provide date	and time for each IR.	YES	NOTE:	and S-H10. The dr	oximately 1530 hours, approximately 7,712 rilling fluid continued to flow down S-H10 a		
3. WHEN WAS DR time for each IR.	RILLING STOPPED?	Provide date and	Drilling was immediately sto	opped on 8/10/2	drilling was stopped 020 at approximately			
	R (CURRENT ESTIM	ATE)?	Approximately 7,712 gallon	.S				
	OLUME RELEASE R RELEASED SINCE '		YES	NOTE:	Approximately 7,7	12 gallons of drilling fluid emerged on 8/10/	/2020.	
5. HAS THIS VOL REPORT? IF SO, 1	UME CHANGED SIN HOW?	NCE THE LAST	NO	NOTE:				
6. WHAT IS THE I and times.	DURATION OF EAC	H IR? Provide dates	The IR ceased emerging on 8	8/10/2020 at 15	30 hours after the IR	was discovered and drilling was stopped.		
7. WHAT STEPS W Provide dates and ti	VERE TAKEN TO ST imes.	OP EACH IR?	H10 (UNT to Marsh Creek)	. Crew member mbers used pum	rs began clean up and ps and hand tools to r	(UNT to Marsh Creek) and pond H3 (Mars I recovery of the drilling fluid starting at the recover the drilling fluid and transport it to o	location of the IR release point wor	king their way towards pond H3 (Marsh
IMPLEMENTED P	ONS TO THE DRILLI PRIOR TO EACH RE ide dates and times.							
8a. What was the te	chnical basis for resu	ning drilling?						
9. WAS THE DRIL and duration for eac	LING RESUMED? H	Provide dates, times,	NO	NOTE:				
9A. IF SO, HAS AN dates and times for		RED? If YES, provide	NO	NOTE:				
10. HAS IR BEEN (times, and measures	CONTAINED? If YES s for each IR.	S, Provide dates,	YES	NOTE:	•	ains were installed at the confluence of S-H1 were constructed within S-H10 (UNT to M	``````````````````````````````````````	H3 (Marsh Creek Reservoir). Ten sand b
11. HAS A FISH KI times, and measures	ILL OCCURRED? If s for each IR.	YES, Provide dates,	NO	NOTE:				
12. ARE FISH AND DISTRESS?	O OR OTHER AQUA	TIC LIFE IN	NO	NOTE:				
	N THE WETLAND O	RT, DOES DRILLING OR	YES	NOTE:	Drilling fluid remai	ins in pond H3 (Marsh Creek Reservoir)		
14. IS THERE NOT	FICEABLE HIGH LE		VEC	NOTE:				
FURBIDITY IN TH dates, times, and du	iration for each IR.	a ii i ES, Frovide	YES			ins in pond H3 (Marsh Creek Reservoir)		

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.

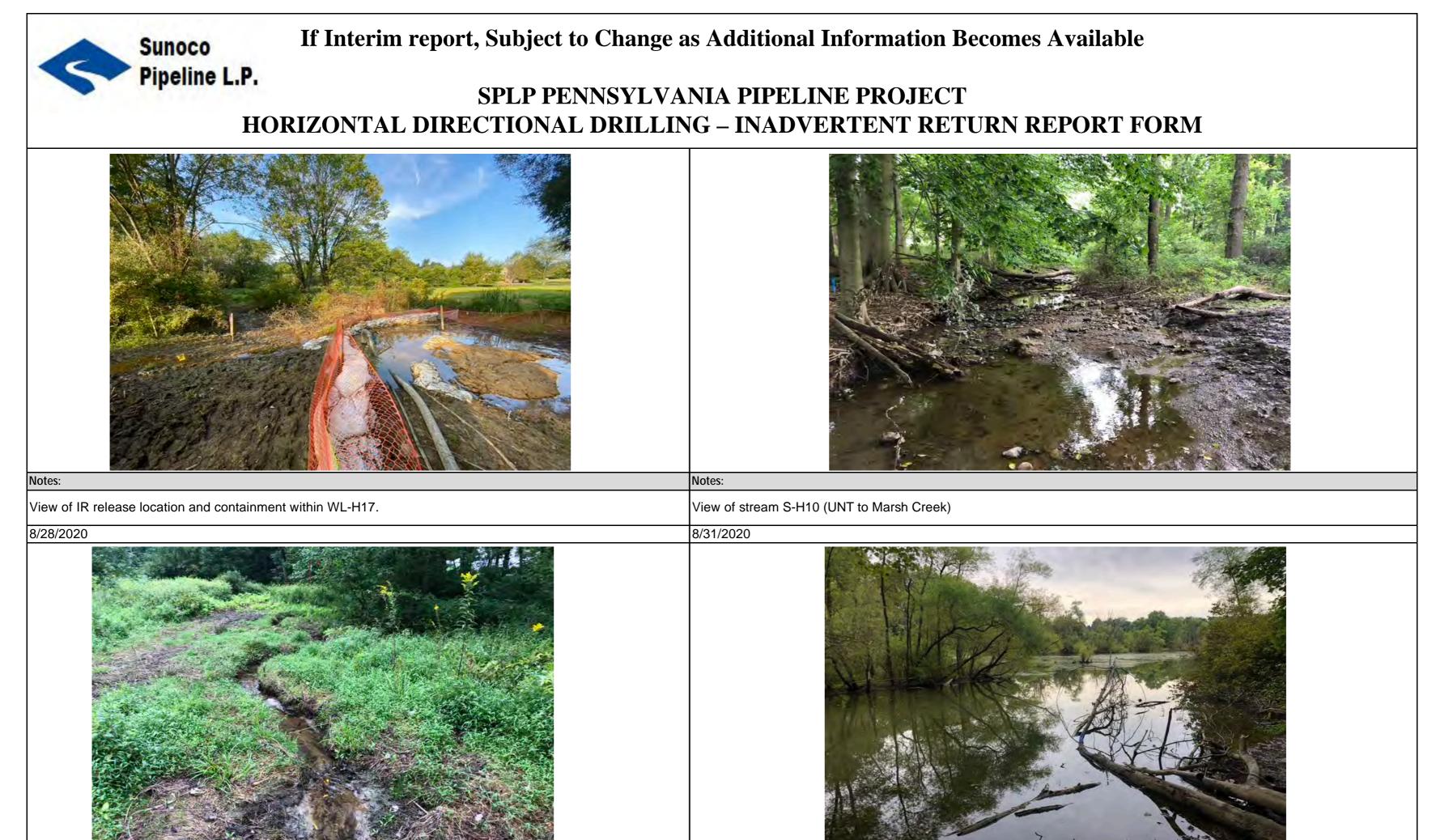
LIST AN	NY NOTIFICATIONS OF INCIDENT MAI	DE TO WATER INTAKES,	, WATER WEI	LL OWNERS AN	ID LANDOWNER	S, INCLUDIN	G DATE AN	D TIME WHEN EACH N	OTIFICATION OCCURRED:
NAME:	2 Private Well Owners	DATE:	8/11/2020	TIME:		PUBLIC OR PRIVATE:	Private	NOTE:	Letters sent.
NAME:	1 Public Water Supply	DATE:	8/10/2020	TIME:	1625	PUBLIC OR PRIVATE:	Public	NOTE:	Informed of release on 8/10, letter sent o 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	IE OF ALL PERSON(S) PH	ROVIDING IN	FORMATION F	OR THIS REPORT		ACT INFOR	MATION	
NAME:	Josh Prosceno	PHONE:	570-336-9606		EMAIL:	josh.prosceno@	tetratech.com	n TITLE:	LEI
NAME:	Chris Cable	PHONE:	518-533-9847		EMAIL:	chris.cable@te	tratech.com	TITLE:	Environmental Inspection Manager
NAME:		PHONE:			EMAIL:			TITLE:	
NAME:		PHONE:			EMAIL:			TITLE:	
NAME:		PHONE:			EMAIL:			TITLE:	
			Ι	MPACTED RESO	DURCE(S)				
RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	PI	EM/PFO	WHAT STEPS I ELIMINATE O IMPACTS?	R MITIGATE T	HE		ontainment constructed at release point. using hand tools and pumps.
RESOURCE:	STREAM S-H10	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAIN	S TO HQ-TSF	WHAT STEPS I ELIMINATE O IMPACTS?				ontainments constructed within stream. using hand tools and pumps.
RESOURCE:	STREAM S-H11	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAIN	S TO HQ-TSF	WHAT STEPS I ELIMINATE O IMPACTS?				ontainments constructed within stream. using hand tools and pumps.
RESOURCE:	POND H3	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	H	IQ-TSF	WHAT STEPS I ELIMINATE O IMPACTS?			Two turbidity curtains we pond H3.	ere 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?				
			AD	DITIONAL INFO	ORMATION				
	SUMED DOES IT INVOLVE A CHANGE IENT, DEPTH OR ALIGNMENT?	NO	NOTE:						
	ATE WATER SUPPLY - PROXIMITY TO STREAM WATER INTAKES?		NOTE:						
	TO PUBLIC OR PRIVATE WATER JPPLIES AND WELLS?	YES	NOTE:						
LIST AND DES	SCRIBE MATERIAL(S) RELEASED:	A mixture of bentonite clay as	nd water with na	ative cuttings					
	ATED QUANTITY OF THE RELEASE CE THE LAST REPORT? IF SO, HOW?	YES	NOTE:	Approximately 7,	712 gallons of drillin	ng fluid emerged	on 8/10/2020	. 🗆	
ESTIMATED	D AERIAL EXTENT OF RELEASE	8/10/2020 - 25'x25' at initial	IR release locat	ion					
	AR FEET/MILES) OF DOWNSTREAM GE OF RELEASE, IF ANY	IR traveled approximately 1,8	800 feet downstr	ream from S-H10 (UNT to Marsh Cree	k) into pond H3	(Marsh Creek	x Reservoir). Extent into po	ond H3 (Marsh Creek Reservoir) unknown.
	RIBE ROOT CAUSE(S) OF IR								
	NTS: NOTE ANY MATERIAL CHANGE MATION FROM PRIOR REPORTS)								
HAVE THE	IMPACTS FROM THE IR BEEN	8/10/2020 - Sandbag and silt confluence of S-H10 and pone		-	•				[10. Two turbidity curtains installed at the
	7. Flease provide date of remediation.	·				•			•
NIA NATE-	Chris Cable TITLE	PRINTED NAME, T		SIGNATURE OF F				12/23/2020	
NAME:	Chris Cable TITLE:	Environmental Inspection Ma	mager			Ny Caber	DATE:	12/23/2020	
AUTHORIZATION	N FROM PADEP OR CCD TO RESUME		NOTE	PADEP USE (JINLY				
	HDD REQUIRED?		NOTE:						
	ERMIT AMENDMENT?		NOTE:						
PADEP	P / CCD REVIEWER NAME:			DATE:					



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
<image/> <image/>	<image/>
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.
Notes:	Notes: View of stream S-H10 (UNIT to Marsh Crook) following cleanup
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	8/17/2020



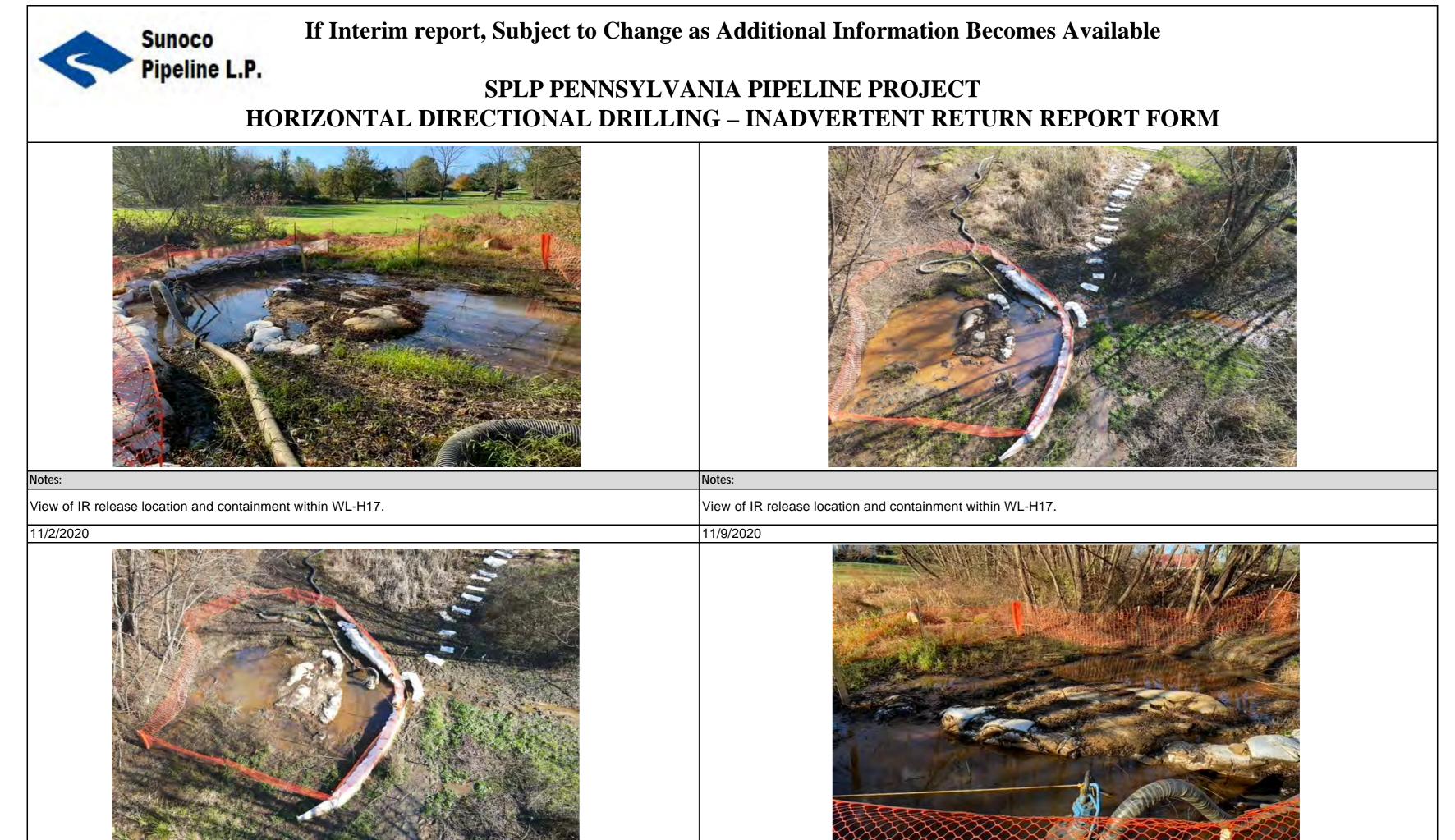
Notes:	Notes:
View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek	View of pond H3 (Marsh Creek Reservoir).
Reservoir).	
8/17/2020	8/17/2020
Notes:	Notes:
View of IP release leastion within W/L H17	
View of IR release location within WL-H17.	View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).
8/22/2020	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	8/22/2020
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Notes:	Notes:
View of stream S-H10 (UNT to Marsh Creek)	View of pond H3 (Marsh Creek Reservoir).
8/31/2020	8/31/2020
Notes:	Notes:
View of IR release location and containment within WL-H17.	View of stream S-H10 (UNT to Marsh Creek)
View of IR release location and containment within WL-H17. 9/4/2020	View of stream S-H10 (UNT to Marsh Creek) 9/5/2020
View of IR release location and containment within WL-H17. 9/4/2020	View of stream S-H10 (UNT to Marsh Creek) 9/5/2020 Image: Constraint of the stream S-H10 (UNT to Marsh Creek) 9/5/2020 Image: Constraint of the stream S-H10 (UNT to Marsh Creek)
/iew of IR release location and containment within WL-H17.	View of stream S-H10 (UNT to Marsh Creek) 9/5/2020



Notes:	Notes:
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).
9/28/2020	9/28/2020
Notes:	Notes:
View of IR release location and containment within WL-H17.	View of IR release location and containment within WL-H17.
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Jotes:	Notes:
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.



otes:	Notes:
ew of IR release location and containment within WL-H17.	View of IR release location and containment within WL-H17.
1/16/2020	11/23/2020
tes:	Notes:
ew of IR release location and containment within WL-H17.	View of IR release location and containment within WL-H17. 12/8/2020
<image/> <page-footer></page-footer>	Notes:
there is the release location and containment within WL-HI.	Notes: View of earth feature one filled with 13 cubic yards of flowable fill.

