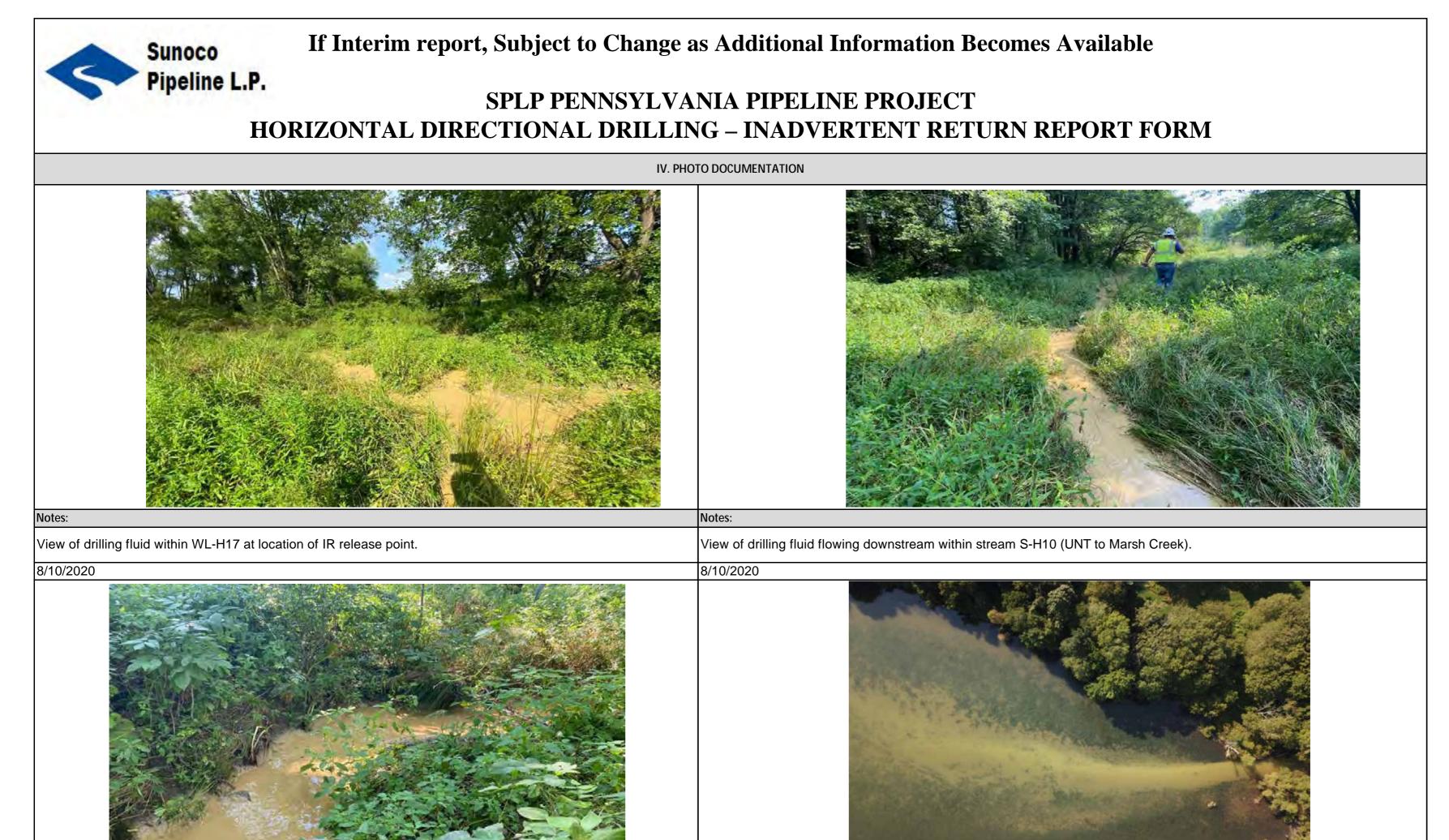
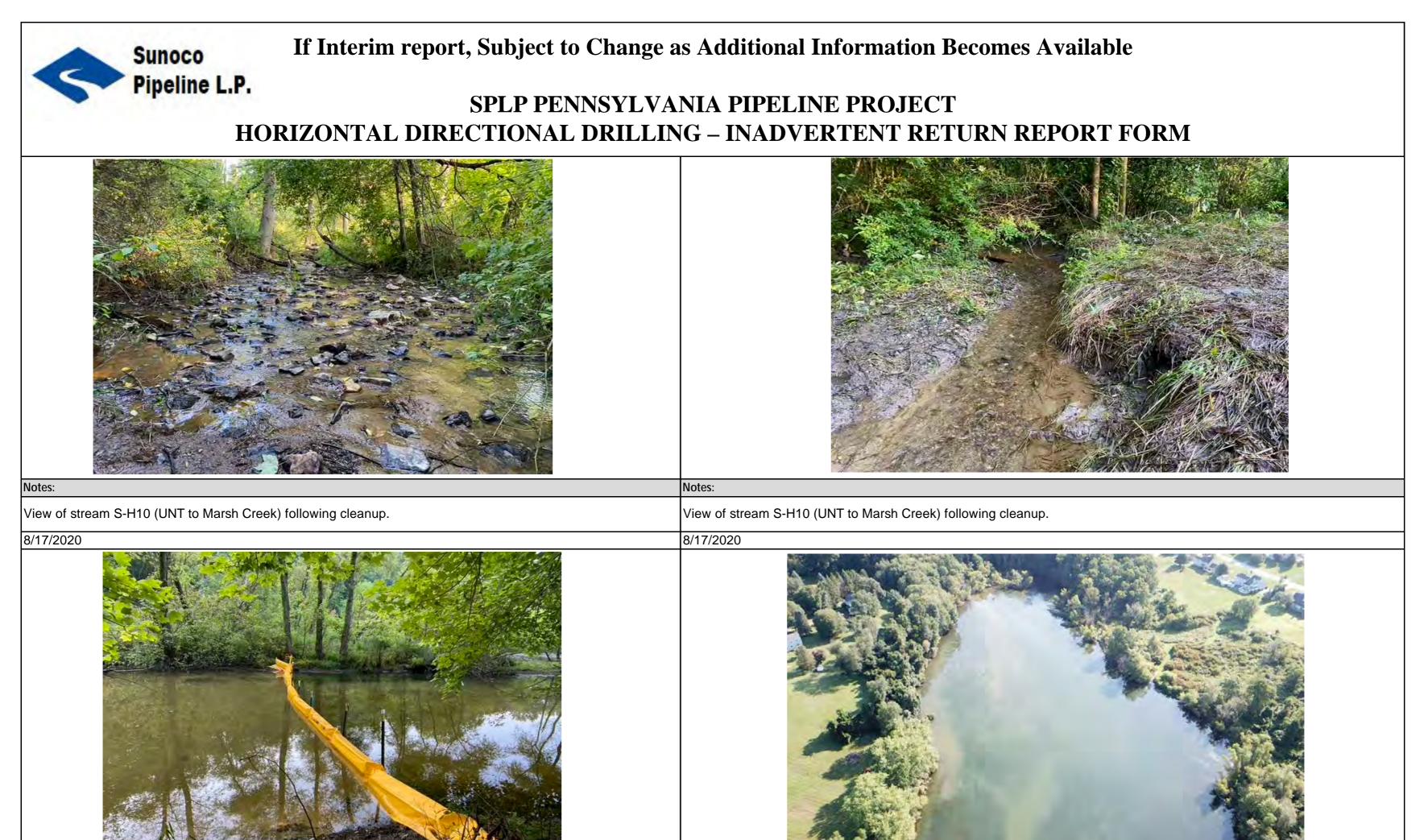
| | Sunoco Pipeline L.P. | If Interim Rep | port, this Report is cumulati | ive, containing SPLP PEN | information from p INSYLVANIA PIPE | nal Information Becomes Available previous reports in addition to new inform ELINE PROJECT DVERTENT RETURN REPORT FORM | | |
|--|---|--------------------------|---|---|--|---|--|---|
| | 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. |

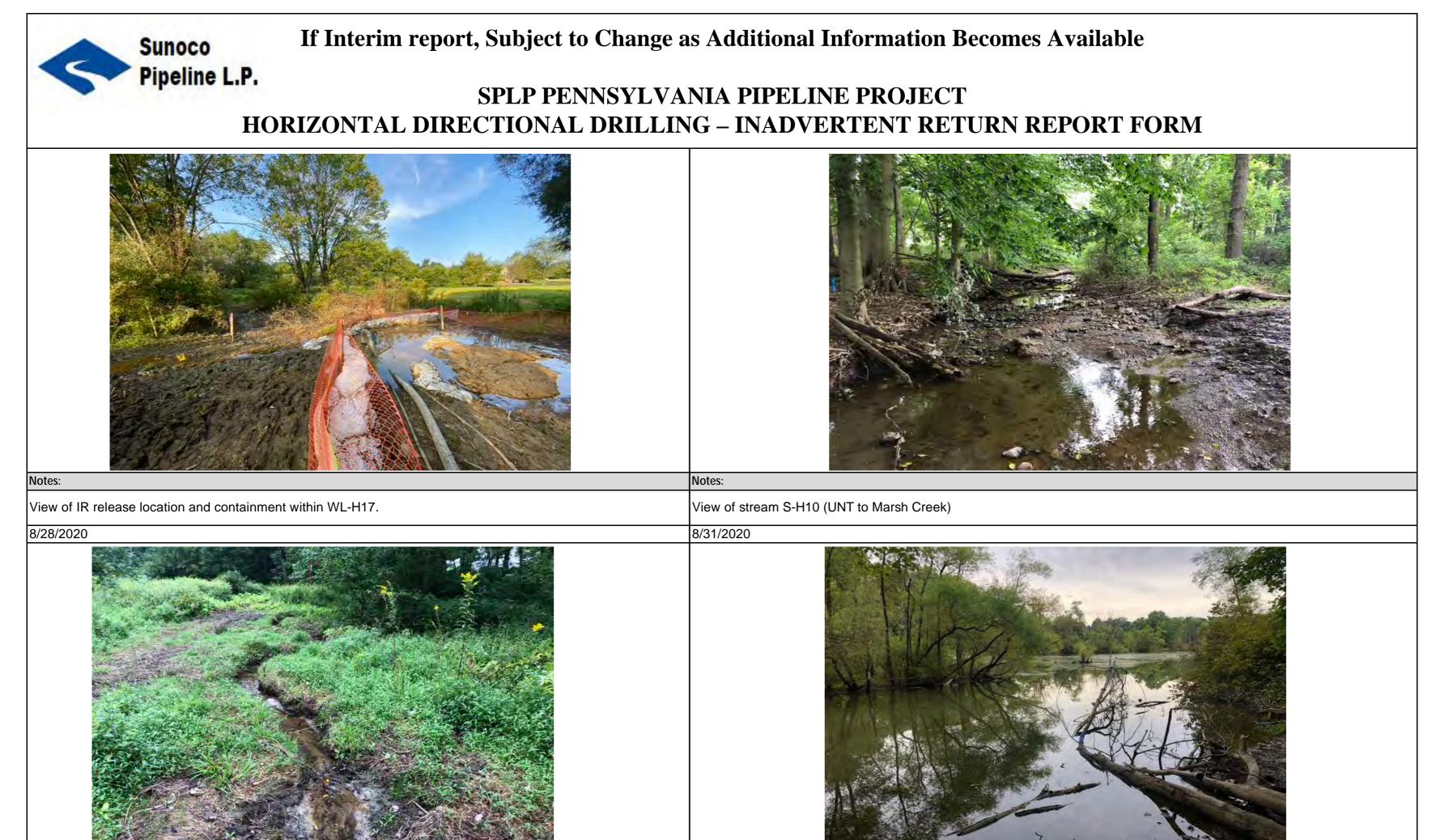
| LIST AN | NY NOTIFICATIONS OF INCIDENT MAI | DE TO WATER INTAKES, | , WATER WEI | LL OWNERS AN | ID LANDOWNER | S, INCLUDIN | G DATE AN | D TIME WHEN EACH N | OTIFICATION OCCURRED: |
|------------------|--|---|------------------|-------------------|---|-----------------------|---------------|------------------------------------|---|
| 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: | | | | | |



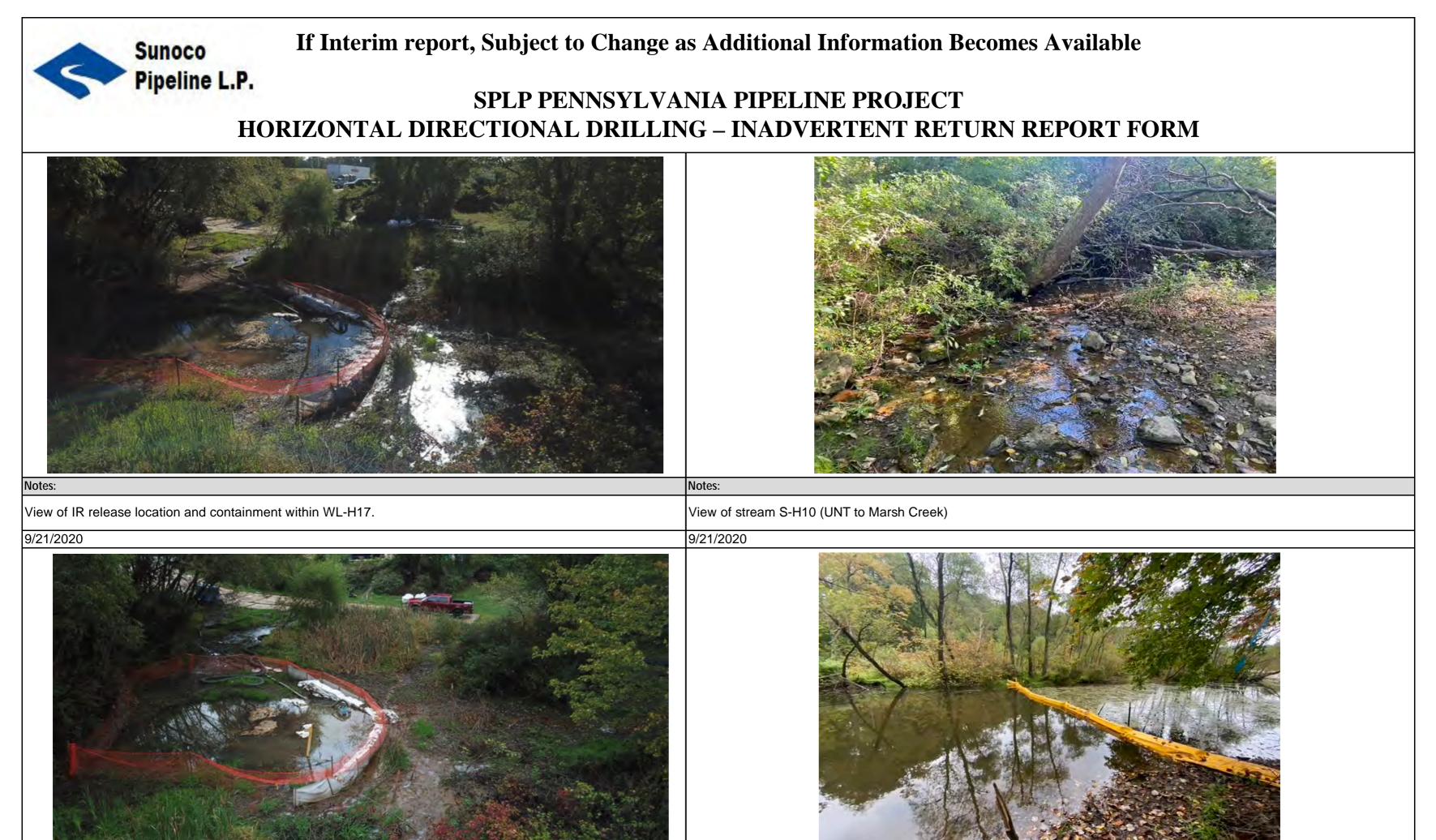
| Notes: | Notes: |
|---|--|
| View of drilling fluid within stream S-H10 (UNT to Marsh Creek). | View of drilling fluid entering pond H3 (Marsh Creek Reservoir). |
| 8/10/2020 | 8/10/2020 |
| <image/> <image/> | <image/> |
| View of contractor crew members installing two turbidity curtains at the confluence 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 |



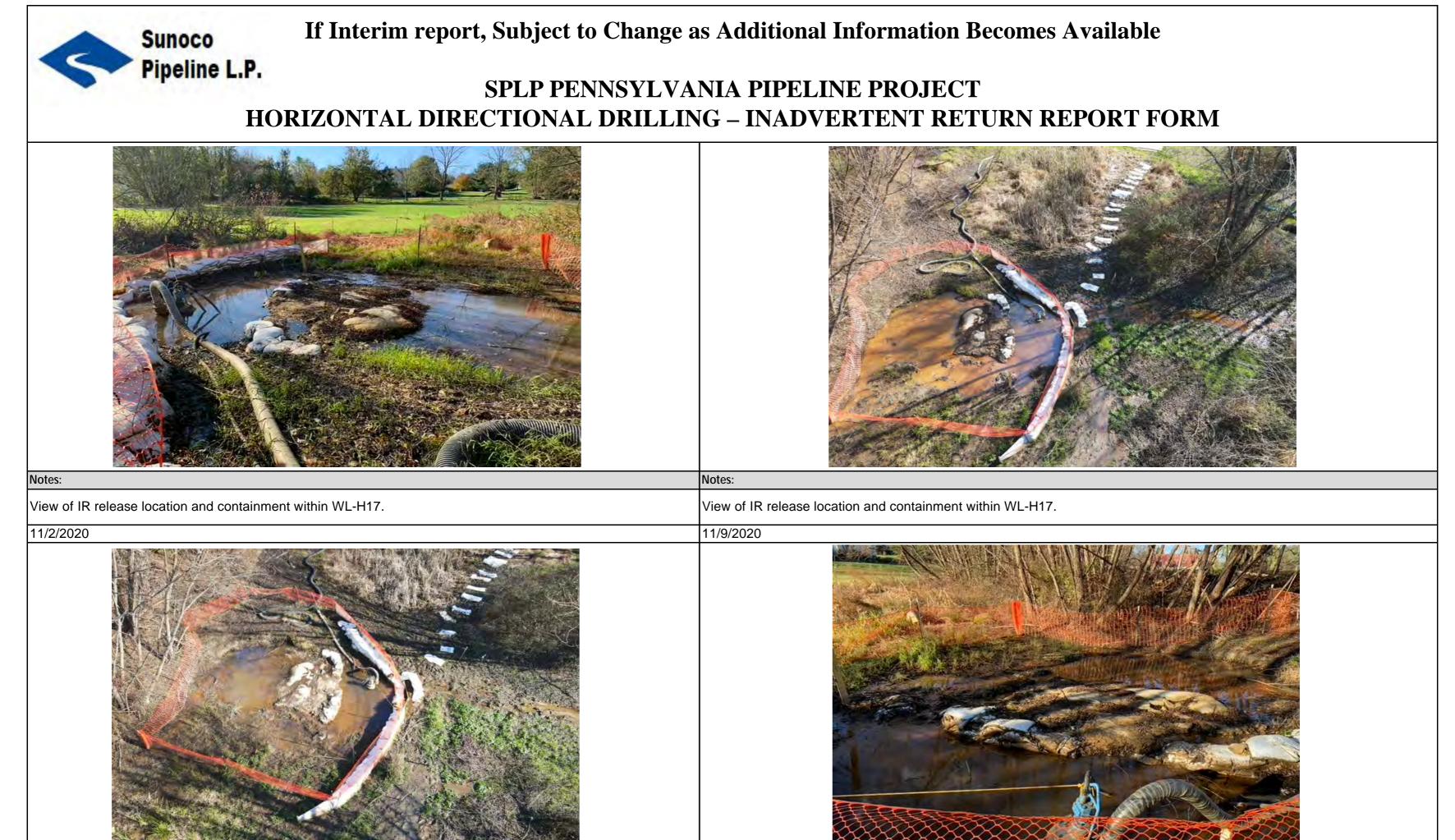
| Notes: | Notes: |
|---|--|
| View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek | View of pond H3 (Marsh Creek Reservoir). |
| Reservoir). | |
| 8/17/2020 | 8/17/2020 |
| | |
| Notes: | Notes: |
| View of IP release leastion within W/L H17 | |
| 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. |

