

# QUESTA TAILINGS PIPELINE REMOVAL STAGE 5 WORK PLAN CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY QUESTA MINE

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Project #: 476-027-002

**SUBMITTED BY:** Trihydro Corporation

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ENGINEERING SOLUTIONS. ADVANCING BUSINESS.

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# 1.0 INTRODUCTION

Chevron Mining Inc. (CMI) submitted the revised "Questa Tailings Pipeline Removal MMD/NMED Work Plan, Chevron Environmental Management Company, Questa Mine" (Removal Work Plan) (Trihydro 2017) to New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Mining and Minerals Division (MMD), New Mexico Environmental Department's (NMED) Groundwater Bureau and U.S. Environmental Protection Agency, Region 6 (USEPA) on May 19, 2017. Approval for the Removal Work Plan was received from MMD and NMED on June 5, 2017 and from USEPA on June 14, 2017. The Removal Work Plan provides an overarching plan for the removal of the Questa tailings pipeline. The Removal Work Plan states that specific work plans will be developed to detail the removal plans for individual segments of the pipeline.

The pipeline removal project has been divided into eight stages. Stage 1 activities entailed the removal of HDPE and steel pipe from the existing tailings facility. Stage 1 work was performed solely under the process described in the Removal Work Plan. Stage 1 work commenced July 10, 2017 and was completed July 24, 2017. Stage 2 through Stage 8 work activities will be conducted under the Removal Work Plan as well as individual stage specific work plans. Stage 2 work commenced on November 20, 2017 and was completed June 28, 2018. Stage 3 work commenced on January 21, 2019 and is in progress with a majority of pipe removed and disturbed areas stabilized and ready for seeding. Stage 4 work commenced on February 21, 2019 and is in progress with a majority of pipe removed and disturbed areas stabilized and ready for seeding. Stage 6 work commenced on March 23, 2019 and is in progress with Segment 6.1 and 6.4 piping removed. Stages 2 through 8 are outlined in Table 1-1 and are not anticipated to be completed in number order. The segment quantities in Table 1-1 have been updated from those presented in earlier work plans.

This document represents the individual plan for Stage 5 removal of the tailings pipeline. The work identified in this plan will result in the removal or grouting of approximately 37,000 ft. of pipe. The pipe will be removed from within the New Mexico Department of Transportation (NMDOT) right of way and with a lesser amount from U.S. Forest Service (USFS) property also within NMDOT right of way, thereby limiting the number of additional permits and access agreements required.



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**TABLE 1-1. PIPELINE SEGMENT AND STAGE IDENTIFICATION** 

TABLE 1-1. PIPELINE SEGMENT AND ST	Approximate Length	
Pipeline Segment Description	of Segment (feet)	Stage
Tailing Facility	10,000	1
Columbine Wells Area	4,000	2
Tailing Facility Entrance	2,800	2
Corny's Corner hillside	1,200	2
Singleton's Cut	2,900	2
Robinson's Property	850	2
East of Molycorp baseball field	1,400	2
Upstream of the lower Dump Sump	1,600	2
Pressure vessels to underground	500	3
East of Middle Pile	1,000	3
Goat Hill Entrance Area	2,350	3
Bear Cut	2,500	3
USFS Office Area	3,200	4
Forest Service Property west of Molycorp field	950	4
East of Sulphur gulch	1,000	5
West of Sulphur gulch	1,100	5
Sugar Shack South	4,000	5
1st Road Crossing (East Hwy 38 road)	200	5
Columbine Curve	1,400	5
Columbine Park Entrance-Downstream of 1st River Crossing	600	5
2nd Road Crossing	400	5
Admin Section	1,700	5
Between Goat Hill and Bear Cut	2,700	5
3rd Road Crossing	700	5
Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	2,600	5
Lower Embargo Road Crossing and Embargo Road	1,100	5
Mill Raw Water Line	200	5
1st River Crossing (by Columbine Park)	120	6
2nd River Crossing (aka Thunder Bridge)	210	6
3rd River Crossing	190	6
Rael Property	550	6
Elevated Trestle	2,160	7
Lower Dump Sump	0	8

# 2.0 AGENCY PERMITS AND NOTIFICATIONS

The bulk of Stage 5 activities will be covered by the MMD Mining Act Permit TA001RE, Revision 96-1 and NMED Discharge Permit DP-933. Any historic tailing spills encountered during the pipeline removal will be removed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Administrative Order on Consent for Removal Actions (Removal AOC), Docket No. 06-09-12.

#### Additional permits/notifications required may include:

- An asbestos notification form under the National Emission Standards for Hazardous Air Pollutants (NESHAP) submitted to the NMED Air Quality Bureau (AQB) will be filed before any asbestos removal is undertaken. The pipeline and associated structures have been sampled for the presence of asbestos and lead under the guidelines presented in the Removal Work Plan. Stage 5 piping was found to be non-detect for asbestos at the locations sampled during August 2017 sampling events.
- Consultation with the United States Fish and Wildlife Service (USFWS) and/or the New Mexico Department of
  Game and Fish (NMDGF) to ensure compliance with the Threatened and Endangered Species Act (USFWS 1973),
  Migratory Bird Treaty Act (USFWS 1918), and the Bald and Golden Eagle Protection Act (U.S.C. 1940).
   Response to this consultation request was received on April 6, 2018.
- Coordination with USFS for access, preservation of ditches, and/or trees that may be affected for that portion of Stage 5 that is located on USFS owned lands.
- A Storm Water Pollution Prevention Plan (SWPPP) has been developed for coverage under the Construction General Permit. The Notice of Intent (NOI) was submitted on January 7, 2019 and authorization from EPA was received on January 21, 2019.
- Roadway work permits will be obtained before work within New Mexico Department of Transportation (NMDOT) right of way begins along NM-38, Embargo Rd, and NM-522. The NMDOT Environmental Clearance Request was submitted on May 16, 2018. Entact will complete the NMDOT Roadway Work Permits which also include environmental clearances for Stage 5 pipeline segments prior to commencement of work in these areas. General traffic provisions are included in Section 3.15 for each pipeline segment and work area.
- A Preconstruction Notice (PCN) for the entire pipeline was submitted to the United States Army Corps of Engineers (USACE) on Feb 4, 2019 and is pending approval.
- A historic structures survey was completed for the pipeline area and submitted to the New Mexico Historic
   Preservation Division (NMHPD) of the New Mexico Department of Cultural Affairs and MMD on May 29, 2018.



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- MMD has consulted with NMHPD and received a letter indicating NMHPD's concurrence with the recommendations of eligibility and effects proposed in the survey report with two exceptions:
  - HCPI 44846 (The Embargo Ditch) the SHPO considers this acequia as eligible to the National Register of Historic Places (NRHP) under Criteria A and C at the local and state level. Stage 5 pipeline work areas are in close proximity to this acequia, however, planned pipeline removal activities are not anticipated to impact this Acequia.
  - HCPI 44847 (Acequia Del Molina Ditch). The SHPO considers the NRHP eligibility of this resource as undetermined at this time, further research regarding the history, construction characteristics, and geographic extent of this ditch will be required in order to determine NRHP eligibility, however Stage 5 pipeline removal work areas do not have a close proximity to this acequia and pipeline removal activities are not anticipated to impact this Acequia.
- Notification to the Village of Questa and Town of Red River regarding changes in traffic flow due to work along NM-38 and Embargo Rd.

Work will not begin until approval to proceed has been received.

# 3.0 STAGE 5 AREAS

A description of the areas included in the Stage 5 pipeline removal plan are illustrated below in Table 3-1. Figure 3-1 provides an overall view of the Stage 5 project areas. Detailed views of individual segments are included as Figures 3-2 through 3-17.

TABLE 3-1. AREAS INCLUDED IN STAGE 5 PIPELINE REMOVAL PLAN

Pipeline Segment Description	Approximate Length of Segment (feet)	Seasonal Considerations or Preferred Months (Alternative 1)	Above (A) or Underground (U)?	CMI Ownership?	Figure
5.01: East of Sulphur Gulch	1,000	Outside of winter conditions	U	Y	3-2
5.02: West of Sulphur Gulch	1,100	Outside of winter conditions	А	Y	3-3
5.03: Sugar Shack South	4,000	Outside of winter conditions	А	Y	3-4, 3-5, 3-6, 3-7
5.04: 1 <sup>st</sup> Road Crossing (East Hwy 38 road)	200	Outside of winter conditions	U within culvert	N*	3-7
5.05A: Columbine Curve	1,418	Outside of winter conditions	А	N	3-7
5.05B: Columbine Park Entrance	600	Outside of Winter Conditions	U	N*	3-8
5.05C & 5.06: 2 <sup>nd</sup> Road Crossing	400	Outside of winter conditions	U within culvert	Y	3-9
5.07: Admin Section	1,700	Outside of winter conditions	А	Y	3-9, 3-10
5.08: Between Goat Hill and Bear Cut	2,700	Outside of winter conditions	А	Y	3-11, 3-12
5.09: 3 <sup>rd</sup> Road Crossing	700	Outside of winter conditions	U within culvert	N*	3-13
5.10: Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	2,600	Outside of winter conditions	А	N	3-13, 3-14, 3-15
5.11: Lower Embargo Road Crossing	1,100	Outside of winter conditions	U	N	3-16
5.12: Mill Raw Water Line	200	Outside of winter conditions	U	Y	3-17
Underground Structure	100	Outside of Winter Conditions	А	Y*	3-5

<sup>\*</sup> Pipeline segment begins on either CMI or USFS property but ends on the other entity's property. See 3.1 – 3.13 for more detail

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#### 3.1 EAST OF SULPHUR GULCH

The pipeline segment titled East of Sulphur Gulch (Segment 5.01) is located on Chevron property between station numbers 7+38 and 17+40 and is between mile marker 6.7 and 6.8 of NM-38. The pipe in this section starts just inside the west gate of former Mill area (where Segment 3.1 terminated) and ends where the pipe surfaces to the west of the entrance to the Lower Sulphur Gulch extraction system. This section is approximately 1,000 linear feet and contains two pipe runs. This section is primarily underground with only 80 feet of pipe above ground or less than two feet below ground surface. Details for this section can be found on Figure 3-2. This section is scheduled for grouting and abandonment in place. The grouting plan can be found in Section 4.1. The above ground pipe will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017).

#### 3.2 WEST OF SULPHUR GULCH

The West of Sulphur Gulch pipeline segment (Segment 5.02) is located on Chevron property between station numbers 17+40 and 28+50 and is between mile marker 6.5 and 6.7 of NM-38. The pipe in this segment starts where Segment 5.01 ends and where Segment 3.2 (already removed) began on the short dirt road that branches off of Highway 38. Details of this segment can be found on Figure 3-3. The West of Sulphur Gulch segment is approximately 1,100 linear feet and consists of two pipe runs. The pipe and associated structures in this segment will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Quantities of demolition materials can be found on Table 4-2.

#### 3.3 SUGAR SHACK SOUTH

Sugar Shack South (Segment 5.03) is a pipeline segment located on Chevron property between station numbers 36+00 and 76+00 and is between mile marker 5.5 and 6.2 of NM-38. The pipe in this segment begins where Segment 3.2 terminated, continues past the Moly Adit onto the dirt road north of Highway 38 and ends where the dirt road meets Highway 38 again. This segment is approximately 4,000 linear feet and contains two pipe runs. The pipe in this segment will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2. Details of this segment can be found on Figures 3-4, 3-5, and 3-6.

#### 3.4 1<sup>ST</sup> ROAD CROSSING (EAST HWY 38 ROAD)

The segment titled 1<sup>st</sup> Road Crossing (Segment 5.04) can be found between station numbers 76+00 and 78+00 and is between mile marker 5.5 and 5.4 of NM-38. This section begins on Chevron property where Sugar Shack South ends and ends on USFS lands after the bend structure on the south side of Highway 38. Details of this segment can be found

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on Figure 3-7. The pipe and associated structures in this segment will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2.

#### 3.5 COLUMBINE CURVE

Columbine Curve (Segment 5.05A) is located on USFS lands between station numbers 78+00 and 91+68 and is between mile marker 5.4 and 5.0 of NM-38. The pipe in 5.05A begins where Segment 3.4 terminates (just after the road crossing), includes the sharp curve east of the Columbine campground and the camp, and terminates at the east end of the bridge structure in Stage 6 (Segment 6.2). This segment is approximately 1,400 linear feet and contains two pipe runs. The pipe and associated structures will be removed in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Details of this segment can be found on Figure 3-7 and estimated demolition material quantities can be found on Table 4-2.

#### 3.6 COLUMBINE PARK ENTRANCE

The Columbine Park Entrance (Segment 5.05B) is located on Chevron property between station numbers 92+88 and 99+00. The pipe in this segment is underground and runs from the east side of the Columbine Campground entrance, west under the entrance and along the shoulder of Highway 38 near mile marker 5.2. The segment terminates where the pipe surfaces on the dirt road leading into the Columbine Wells area; pipe to the west of where it surfaces was removed in Stage 2. The segment is approximately 600 linear feet and contains two runs of pipe. This segment is scheduled for grouting and abandonment in place. Details for the grouting can be found in Section 4.1 and details for this segment can be found on Figure 3-8. No demolition materials are anticipated for this segment.

#### 3.7 2ND ROAD CROSSING

The 2<sup>nd</sup> Road Crossing segment (Segments 5.05C and 5.06) is located on Chevron property between station numbers 139+59 and 143+50 and is between mile marker 4.2 and 4.3 of NM-38. Segment 5.05C runs from the end of the Thunder Bridge segment (Stage 6, Segment 6.3) to the turn boxes on the south side of the road. Segment 5.06 runs from turn boxes on the south side of the road to the turn boxes on the north side of Highway 38. The Second Road Crossing segment is approximately 400 linear feet and contains two pipe runs. The pipe and associated structures will be removed in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Details of this segment can be found on Figure 3-9 and estimated demolition material quantities can be found on Table 4-2. For simplicity, this segment is included with the Admin Section on the figure.



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#### 3.8 ADMIN SECTION

The Admin Section (Segment 5.07) is located on Chevron property between station numbers 143+50 to 160+17 and is between mile marker 4.0 and 4.2 of NM-38. The pipe in this segment begins where Segment 5.06 ends on the north side of the road and terminates at the dirt road where Segment 3.3 began. This segment is approximately 1,700 linear feet and contains two pipe runs. The length of this segment spans two figures (Figure 3-9 and 3-10). This segment consists of above ground pipe as well as an elevated trestle. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017).

#### 3.9 BETWEEN GOAT HILL AND BEAR CUT

The segment identified as Between Goat Hill and Bear Cut (Segment 5.08) is located on Chevron property between station numbers 181+49 and 208+00 and is between mile marker 3.0 and 3.5 of NM-38. As the name implies, the pipe in this segment is between the entrance to Goat Hill and the dirt road east entrance to the Bear Cut area (Stage 3). Details for this segment can be found on Figures 3-11 and 3-12. This section is approximately 2,700 linear feet. The first 150 feet (station 181+49 to 183+00) has three runs of pipe. The remaining portion of this segment appears to have two pipe runs. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017).

#### 3.10 3RD ROAD CROSSING

The 3<sup>rd</sup> Road Crossing segment (Segment 5.09) runs from station number 230+00 to 237+00 and is between mile marker 2.5 and 2.6 of NM-38. The pipe in this segment begins on Chevron property at the Bear Cut west exit and ends on USFS lands where the pipe exits on the south side of Highway 38. This 700 linear foot segment contains two pipe runs and crosses under Highway 38 at station number 236+00. Details of this segment can be found on Figure 3-13. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2.

#### 3.11 ROCK WALL

The Rock Wall (Segment 5.10, also known The Rock and a Hard Place) is found on USFS lands between station numbers 237+00 and 263+00 and is between mile marker 2.0 and 2.5 of NM-38. Pipe in this segment begins where 5.09 ends (after crossing Highway 38) and ends at the "USFS bridge" segment from Stage 6 (Segment 6.4). Details of this segment are provided on Figures 3-14 and 3-15. This is a 2,600 linear foot section with two pipe runs located between Highway 38 and the Red River. All pipe and associated structures will be removed and disposed of in accordance with Section 4.1 of the Removal Work Plan (Trihydro 2017). Demolition material quantities can be found on Table 4-2.



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#### 3.12 LOWER EMBARGO ROAD CROSSING AND EMBARGO ROAD

The Lower Embargo Road Crossing and Embargo Road segment (Segment 5.11) is located between station numbers 398+58 to 409+90 and crosses NM-522 at mile marker 19.9. Pipe in this segment begins on private property (Segment 6.1), crosses Highway 522, continues under Embargo Road, and terminates back on Chevron property in a location known locally as "Corny's Corner." This segment consists of four 1,132-foot-long underground pipes and three other pipe runs of unknown length. This pipe is to be grouted and abandoned in place. Details for this segment can be found on Figure 3-16. It is not anticipated that any demolition materials will be generated for this segment.

#### 3.13 MILL RAW WATER LINE

The Mill Raw Water Line (Segment 5.12), while not part of the tailing pipeline, has been included in this work plan to facilitate approval for grouting and abandoning it in place. The Mill Raw Water Line runs from the former Mill area, underneath Highway 38 at around mile marker 7.2 and into the inlet pond south of Highway 38. This segment is on Chevron property and is comprised of approximately 200 feet of 16-inch, underground steel pipe. Details of this segment can be found on Figure 3-17. It is not anticipated that any demolition materials will be generated for this segment.

#### 3.14 STEEL VAULT STRUCTURE

The steel vault structure called out on Figure 3-5 is not part of the tailings pipeline or tailings pipeline removal project but has been included in this work plan to facilitate approval for grouting and abandonment it in place. Onsite investigations concluded that a capped, 5-inch pipe extends from the vault south beneath NM-38. Removal of the vault and pipe would necessitate closing the road. Chevron abandonment standards, for piping that crosses roads, state that grouting is the only acceptable abandonment procedure. Grouting and abandoning of this small line will be completed under this work scope while grouting equipment is on site and available. It is not anticipated that any demolition materials will be generated for this segment.

#### 3.15 STAGE 5 TRAFFIC CONTROL

The pipeline abandonment, pipeline removal, and site restoration phases of Segments 5.01 through 5.09 and 5.11 will require the application for, and approval of an NMDOT Shoulder Work Permit. The Shoulder Work Permit application will include a traffic control plan illustrating the following controls: shoulder taper using channelizer drums; highway signage on each approach; tapered jersey barriers to protect open excavations overnight; and the use of an attenuator truck to protect personnel, equipment, and materials as work progresses along the Segment.



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The pipeline removal and site restoration phases of Segment 5.10 will require the application for and approval of an NMDOT Lane Closure Permit. The Lane Closure Permit application will include a traffic control plan illustrating the following controls: shoulder taper using channelizer drums; highway signage on each approach; pilot car and flagger operation; and the use of an attenuator truck to protect personnel, equipment, and materials as work progresses along the segment. It is not anticipated that any additional traffic control operations or devices will be required for the pipeline abandonment phase of Segment 5.12 as the pipe termination points are located outside of the NMDOT right-of-way. Additional construction details can be found in Appendix A.

NMDOT has stated a preference for providing environmental clearance, shoulder work permits and lane closure permits on a segment basis rather than a project wide permit. All necessary NMDOT permits will be obtained prior to commencement of work on each segment.

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# 4.0 REMOVAL ACTIVITIES

Prior to Stage 5 pipe removal activities, the pipe and associated structures were sampled and analyzed for lead based paint and asbestos using the methods detailed in the Removal Work Plan. Results from analysis showed that lead based paint was used to coat piping along the alignment. Concentrations of lead ranged between 120 mg/kg and 670 mg/kg along Stage 5 pipe alignments. Results from asbestos sampling and analysis showed non-detect along the Stage 5 alignment for the locations sampled. Sample locations and results across the entire pipeline alignment are shown in figures 4-1 and 4-2. Pertinent Lead and Asbestos sampling results are shown in Table 4-1. Pipe or pipeline structures found to contain lead-based paint or asbestos will be disposed of according to State and Federal requirements as well as Chevron's Third-Party Waste Stewardship (TWS) requirements. A complete data set of lead and asbestos analytical results can be found in Appendix B.

TABLE 4-1. PERTINENT LEAD AND ASBESTOS ANALYTICAL RESULTS

Sample Identification	Pipeline Segment Sample Location	Date Sampled	Asbestos Analytical Result	Lead Analytical Result
A182817	West of Sulphur Gulch	8/28/2017	Non-Detect	Non-Detect
A182917	Admin Section	8/29/2017	Non-Detect	Non-Detect
A382817	Sugar Shack South	8/28/2017	Non-Detect	Non-Detect
A382917	Between Goat Hill & Bear Cut	8/29/2017	Non-Detect	Non-Detect
A482817	Sugar Shack South	8/28/2017	Non-Detect	Non-Detect
A582917	3 <sup>rd</sup> Road Crossing	8/29/2017	Non-Detect	Non-Detect
A682917	Rockwall	8/29/2017	Non-Detect	Non-Detect
A782817	Admin Section Near Thunder Bridge	8/28/2017	Non-Detect	Non-Detect
G182817	1 <sup>st</sup> Road Crossing	8/28/2017	Non-Detect	Non-Detect
G282817	1 <sup>st</sup> Road Crossing	8/28/2017	Non-Detect	Non-Detect
G382817	2 <sup>nd</sup> Road Crossing	8/28/2017	Non-Detect	Non-Detect
G382917	3 <sup>rd</sup> Road Crossing	8/29/2017	Non-Detect	Non-Detect
G482817	2 <sup>nd</sup> Road Crossing	8/28/2017	Non-Detect	Non-Detect
G482917	3 <sup>rd</sup> Road Crossing	8/29/2017	Non-Detect	Non-Detect
L182817	West of Sulphur Gulch	8/28/2017	Non-Detect	540 mg/kg
L182917	Admin Section	8/29/2017	Not Sampled	670 mg/kg
L382817	Sugar Shack South	8/28/2017	Not Sampled	590 mg/kg
L382917	Between Goat Hill & Bear Cut	8/29/2017	Not Sampled	480 mg/kg
L482817	Sugar Shack South	8/28/2017	Not Sampled	570 mg/kg
L582917	3 <sup>rd</sup> Road Crossing	8/29/2017	Not Sampled	280 mg/kg
L682917	Rockwall	8/29/2017	Not Sampled	120 mg/kg
L782817	Admin Section Near Thunder Bridge	8/28/2017	Not Sampled	550 mg/kg
PL182917	3 <sup>rd</sup> Road Crossing	8/29/2017	Non-Detect	Non-Detect

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Utility locates and any necessary surveying will be conducted prior to pipe removal activities. It is anticipated that Stage 5 pipe removal activities will require lane closures during the removal of certain pipeline segments, however all lane closures will be negotiated with the pertinent stakeholders prior to undertaking any closure activities.

Pipe removal will be conducted under the guidelines specified under Section 4.1 of the Removal Work Plan (Trihydro 2017). Stage 5 pipeline areas are primarily located on Chevron property and USFS property within NMDOT right of way.

The majority of Stage 5 pipeline is above the surface. The pipe will be removed by separating the pipe at its couplings. In areas where de-coupling is impractical the pipe will be cut using a hydraulic shear mounted on an excavator. The pipe will then be loaded and trucked to an approved disposal facility.

Structures such as pipe couplings, anchor structures, pipe bend structures, and concrete thrust blocks will be removed in accordance with Section 4.2 of the Removal Work Plan (Trihydro 2017). All waste will be disposed of according to the methods outlined in Sections 2.3.3 and 4.0 in the Removal Work Plan.

#### 4.1 GROUTING PLAN

Pipeline segments in areas where excavation and removal is not practical, either due to the depth of the pipe or its proximity to underground utilities, will be pressure grouted and abandoned in place. Pressure grouting will consist of daylighting the pipeline segment ends and drilling vent holes to inject the grout mixture. The distance between vent holes is typically every 300 feet, however different circumstances and mixes of grout allow greater distances between injection points and vents. When practical the pipe will be grouted from the downslope ends to ensure that the grout completely fills the pipeline segment and does not leave air pockets within the pipeline. Abandoned pipeline segment ends will be covered using clean fill material and graded to match the surrounding area. Disturbed soils will be revegetated using the seed mixture outlined in Table 5-1, or per requirements of NMDOT for disturbance within their right of way. The Village of Questa endorses pressure grouting abandoned pipeline segments within the village boundaries.

It is anticipated that the following pipeline segments will be pressure grouted:

• East of Sulphur Gulch. This section of the pipeline is 2 or more feet below ground surface and within the DOT right of way. Removal of this section of pipe is problematic due the limited work space, presence of utilities (high pressure gas), exposure to talus falling from adjacent slopes, and exposure to traffic in the area.

- Columbine Park Entrance. The pipe in this location is 2 or more feet below ground surface and within the DOT right of way. Presence of utilities (electrical) are possible within the work zone. Removal of this pipe would require temporary closure to the Columbine Park entrance, removal of paving in the entrance, removal of NM-38 shoulder, and exposure of workers to excess traffic hazards.
- Lower Embargo Road Crossing and Embargo Road. The pipeline lies within the Embargo road right of way and crosses NM-522 at a depth up to 14 feet below ground surface. Excavation of this pipe would necessitate the closure of Embargo Road and NM-522 for an extended period of time. The Village of Questa and NMDOT support the grouting of this section. Chevron will provide the Village of Questa with survey data for the pipes that are abandoned in place in this segment. This survey will be conducted following the grouting process to ensure the best accuracy.
- Mill Raw Water Line. Although not part of the tailing pipeline removal infrastructure, CMI wishes to complete this scope in conjunction with pipeline grouting activities. The raw water line crosses beneath NM-38 at an unknown depth greater than 2 feet. Removal of this section would require closure of NM-38 for an extended period.
- Steel Vault Structure. Although not part of the tailing pipeline infrastructure, CMI wishes to complete this scope in conjunction with pipeline grouting activities. A capped 5-inch pipe from the steel vault crosses beneath NM-38 at an unknown depth greater than 2 feet. Removal of this section would require closure of NM-38 for an extended period.

Approximate quantities of material to be removed are detailed in Table 4-2.



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**TABLE 4-2. QUANTITIES OF DEMOLITION MATERIALS** 

		E3 OF DEMOLITIO			
Pipeline Segment Description	Approximate Quantity of Pipe to be Removed (feet)	Approximate Quantity of Pipe to be Grouted (feet)	Station Numbers	Approximate Quantity of Concrete (tons)	Approximate Quantity of Steel (tons)
	(100t)	(100t)	7+38	(10110)	(10110)
5.01: East of Sulphur Gulch	80	1,920	through 17+40	-	-
5.02: West of Sulphur Gulch	2,200	-	17+40 through 28+50	15	-
5.03: Sugar Shack South	8,000	-	36+00 through 76+00	50	1.2
5.04: 1st Road Crossing (East Hwy 38 road)	400	-	76+00 through 78+00	6	0
5.05A: Columbine Curve	2,736	-	78+00 through 91+68	55	-
5.05B: Columbine Park Entrance	-	1,224	92+88 through 99+00	-	-
5.05C & 5.06: 2 <sup>nd</sup> Road Crossing	782	-	139+59 through 143+50	-	0
5.07: Admin Section	3,334	-	143+50 through 160+17	27	0.5
5.08: Between Goat Hill and Bear Cut	5,550	-	181+49 through 208+00	50	0.7
5.09: 3 <sup>rd</sup> Road Crossing	1,400	-	230+00 through 237+00	19	0
5.10: Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	5,200	-	237+00 through 263+00	68	1
5.11: Lower Embargo Road Crossing	-	4,528	398+58 through 409+90	-	-
5.12: Mill Raw Water Line	-	200	-	-	-
Steel Vault Structure	-	100	-	-	-

# 5.0 RECLAMATION

Areas disturbed during pipe removal, tailing removal, and other demolition activities conducted under this work plan will be reclaimed according to the procedures outlined in Section 4.2.10 of the Removal Work Plan and, where required, to meet NMDOT specifications (Trihydro 2017). The disturbed pipeline right of way will be regraded to match the natural grade of the area or to meet the needs of future planned land use. Historic berm structures that run alongside much of the Stage 5 alignment are recommended to be left in place as they do not negatively impact the surrounding environment. Removal and regrading of historic berms would entail a much larger disturbance area. Clean fill, if necessary, will be imported from previously approved borrow sources. A map indicating the locations of borrow material is included as Appendix C.

Once the grading has been completed, disturbed areas will be reseeded using the mix detailed in Table 5-1. An alternate seed mix is also included on Table 5-1 and may be used on private properties depending upon the anticipated land use or if availability of certain seed species is limited. The seed mix may be negotiated with the proper regulatory agencies and stakeholders based on the area of application and in order to meet NMDOT seeding specifications.

**TABLE 5-1. SEED MIXTURE** 

		Drill Seeding	Hydroseeding
Grasses	Scientific Name	lbs/acre	lbs/acre
Western Wheatgrass, var. Arriba	Pascopryum smithii	4.1	8.2
Slender Wheatgrass, var. San Luis	Elymus trachycaulus	1.7	3.4
Bluebunch Wheatgrass, var. Goldar	Pseudoroegneria spicata	2.3	4.6
Blue Grama, var. Hachita	Bouteloua gracilis	0.5	1.0
Arizona Fescue, var. Redondo	Festuca arizonica	0.7	1.4
Forbs			
Western Yarrow	Achillea millefolium	0.15	0.3
Rocky Mountain Penstemon, var. Bandera	Penstemon strictus	1.2	2.4
Prairie Coneflower	Ratibida columnifera	8.0	1.6
Tufted Evening Primrose	Oenothera speciosa	0.15	0.3
Shrubs			
	Artemisia tridentata var		
Mountain Big Sagebrush, var. Hobble Creek	vaseyana	0.3	0.6
Apache Plume	Fallugia paradoxa	0.3	0.6
Alternative Grasses			
Basin Wildrye, var. Magnar	Leymus cinereus	2.1	4.2
Sand Dropseed	Sporobolus cryptandrus	0.06	0.12
Prairie Junegrass	Koeleria macrantha	0.1	0.2
Alternative Forbs			
Scarlet Globemallow	Sphaeralcea coccinea	0.5	1.0
Hairy False Goldenaster	Heterotheca villosa	0.3	0.6
Alternative Shrubs			
Woods Rose	Rosa woodsii	1.5	3.0



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# **6.0 STAKEHOLDER ENGAGEMENT**

The key stakeholders for this stage of pipeline removal include:

- Taos County
- Village of Questa
- Town of Red River
- NMDGF
- NMDOT
- USFWS
- USFS (property owner)
- NMHPD
- USACE
- Amigos Bravos/Trout Unlimited
- Irrigation District

Outreach to the key stakeholders has begun and will continue throughout the pipeline removal project. Stage 5 activities will be discussed with the public during a scheduled meeting with the Village of Questa Council.



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# 7.0 SCHEDULE

The anticipated schedule for Stage 5 of the Questa pipeline removal project is detailed below in Table 7-1.

**TABLE 7-1. STAGE 5 PIPELINE REMOVAL SCHEDULE** 

Pipeline Segment Description	Target Start Date for Pipe Removal	Target End Date for Pipe Removal
East of Sulphur Gulch	May 2019	May 2019
West of Sulphur Gulch	July 2019	August 2019
Sugar Shack South	July 2019	August 2019
1st Road Crossing (East Hwy 38 road)	July 2019	August 2019
Columbine Curve	May 2019	June 2019
Columbine Park Entrance	May 2019	June 2019
2 <sup>nd</sup> Road Crossing	July 2019	July 2019
Admin Section	June 2019	July 2019
Between Goat Hill and Bear Cut	June 2019	July 2019
3 <sup>rd</sup> Road Crossing	June 2019	June 2019
Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	June 2019	June 2019
Lower Embargo Road Crossing	May 2019	May 2019
Mill Raw Water Line	May 2019	May 2019

# 8.0 HEALTH AND SAFETY

CMI, Entact, and Trihydro put safety first and foremost in all operations. A project specific Health and Safety Plan (HASP) will be developed for the pipeline removal activities. The project specific HASP will be similar in scope and detail as presented in the December 20, 2016 HASP (Trihydro 2016) prepared for coordination, sampling, and surveying activities completed in the initial phases of the pipeline dismantling and stabilization. The project specific HASP will include the following details:

- Emergency response procedures and reporting
- Project team organization and responsibilities
- Training, orientation, and medical monitoring requirements
- A site hazard analysis
- Analysis of chemical, physical, and biological hazards
- Required personal protective equipment
- Air monitoring requirements
- Site control measures
- Waste management
- Motor vehicle safety requirements

Other documents used to identify and mitigate hazards associated with the project will include the forms listed below. Examples of the listed forms are included in Appendix D.

- Pre-fieldwork safety readiness reviews. This document provides project management an opportunity to interact
  with field personnel prior to commencement of field activities.
- Job Safety Analyses (JSA). JSAs are drafted for each task. Job steps, potential hazards, and mitigation steps are identified and communicated to team members. The JSA form is included in Appendix D.
- Field observations. Observations will be conducted throughout the project to verify compliance with operational safety standards.
- Near Miss investigations. Near misses identified by team members will be investigated to determine root causes
  and means to avoid similar incidents in future operations. The outcome of these investigations will be shared with
  all team members.



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- Daily tailgate safety meetings. Daily tailgate safety meeting will be conducted every day prior to commencement
  of operations. The meetings are an opportunity to review JSAs, discuss changing conditions, lessons learned, and
  operational details.
- Weekly management safety meetings. This meeting is an opportunity for the project leadership to discuss upcoming operations, lessons learned, near loss investigations, and other potential issues covered in the weekly project meeting.
- Journey management plans (JMP). JMPs are used to identify hazards associated with transportation. These plans identify hazard and provide mitigation steps for enhancing vehicle operational safety.

The use of these documents creates the foundation for hazard awareness and mitigation. Our companies have embedded their use into our respective corporate cultures and freely share best practices and lesson learned.

# 9.0 CONTRACTORS KEY PERSONNEL

Entact LLC will be the primary contractor for Stage 5 pipe removal, waste management, and regrading of the right of way. Key Entact personnel include:

- Michael Cinciripini. Michael is the Project Manager and primary operations contact for Entact on the tailings pipeline removal project (Project). Michael holds a Bachelor of Science degree in Civil and Environmental Engineering, a Construction Management Certificate and is a Lean Sigma Green Belt. He has a significant level of experience at the Questa Mine facility. He can be reached at (412) 417-8460 or <a href="maintenancements">mcinciripini@entact.com</a>.
- Nicholas Cain. Nicholas fills the role of Health and Safety Officer for Entact on the Project.

Trihydro Corporation will be responsible for engineering, contractor oversight, environmental sampling, permitting, and regulatory support. Key Trihydro personnel include:

- Shaun Harshman. Shaun is the Project Manager and primary contact for Trihydro on the Project. Shaun has a Bachelor of Science degree in Soil Science. He has over 30 years of experience in the environmental field, with over 18 years of experience on Chevron projects. He can be reached at (307) 259-5909 or sharshman@trihydro.com.
- Tony Kupilik. Tony will be Trihydro's primary construction oversight and health and safety manager. Tony has over 25 years of experience in heavy construction and mining. He is a certified MSHA instructor, New Mexico Surface Coal Foreman, Excavation Competent Person, 3D Driving instructor, and has OSHA 40-hour HAZWOPER training. He is also certified in Red Cross CPR, AED, and First Aid. He can be reached at (307) 760-8082 or tkupilik@trihydro.com.
- Loren Eldridge-Looker. Loren will be Trihydro's primary onsite engineering support for the Project. Loren holds Professional Licenses in Wyoming, Texas, and New Mexico. He is a Civil Engineer with over 10 years of experience in project management, permitting, and design, regulatory coordination, construction management and oversight, design surveying, and construction staking. He can be reached at (720) 399-2019 or <a href="LEldridge-Looker@trihydro.com">LEldridge-Looker@trihydro.com</a>

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# 10.0 REFERENCES

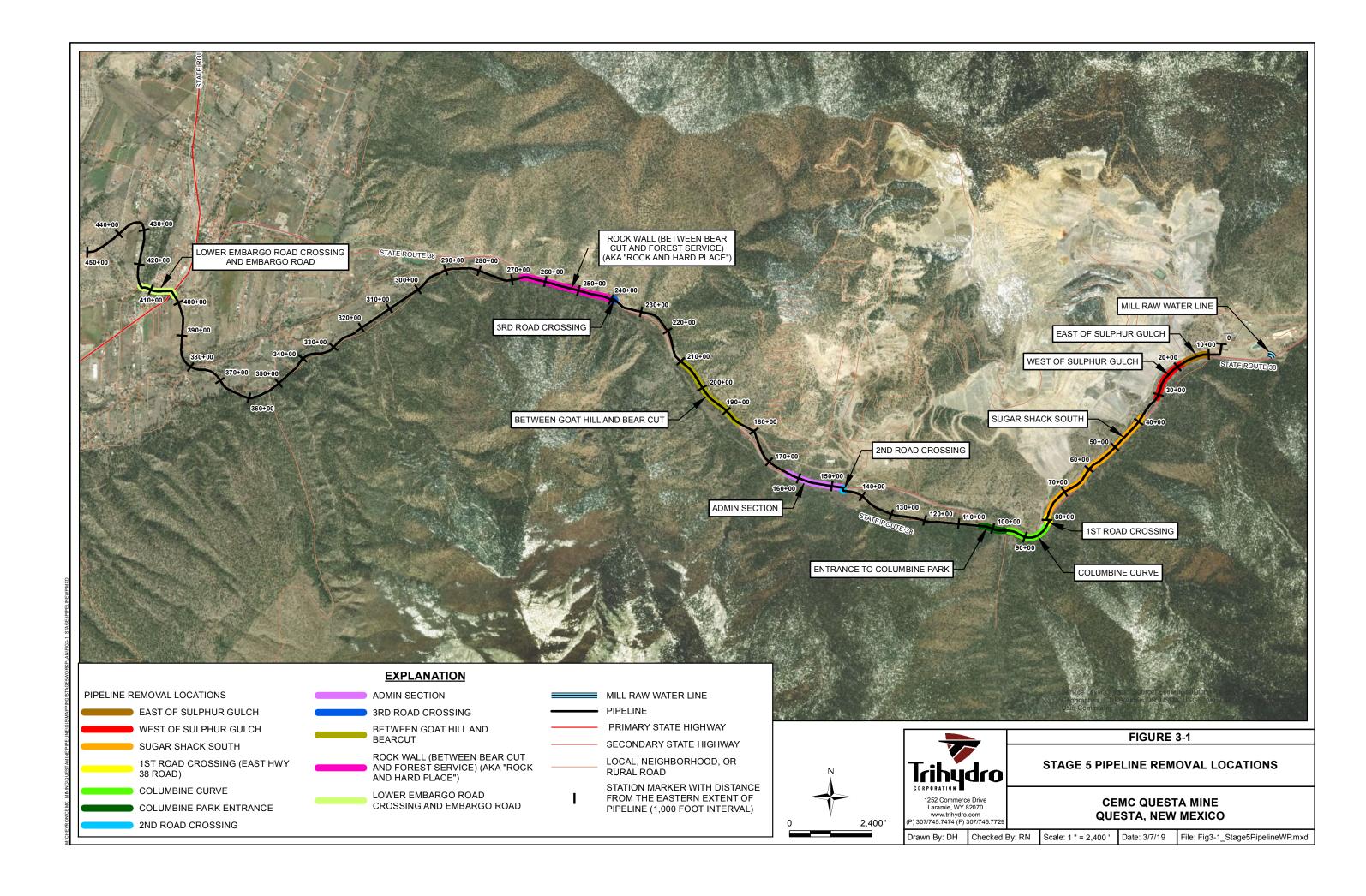
Trihydro Corporation. 2016. Health and Safety Plan (HASP), Field Summary, Chevron Environmental Management Company (CEMC), Environmental Activities, Questa Mine. December 20, 2016.

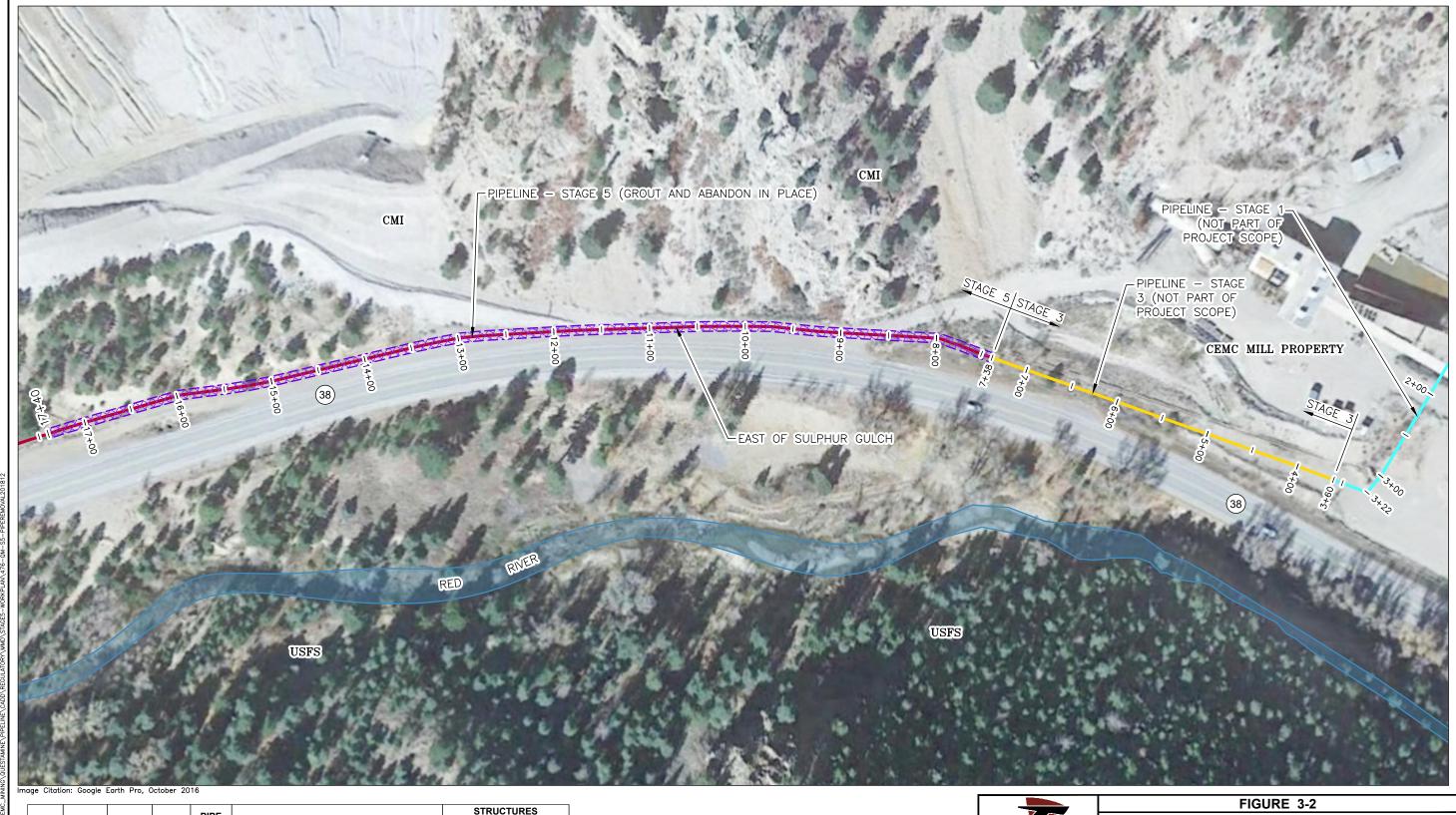
Trihydro. 2017. Questa Tailings Pipeline Removal MMD/NMED Work Plan, Chevron Environmental Management Company, Questa Mine. May 19, 2017.



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**FIGURES** 

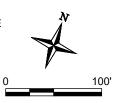




		PIPE		STRUC	CTURES		
STAGE	BEGIN STATION	END STATION	NO. OF PIPES		DESCRIPTION	COUPLINGS (EA)	OTHER STRUCTURES (EA)
5	7+38	17+40	2	1002	BELOW GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - ABANDON IN PLACE - GROUT	60	1

**EXPLANATION** 

GROUT AND ABANDON IN PLACE

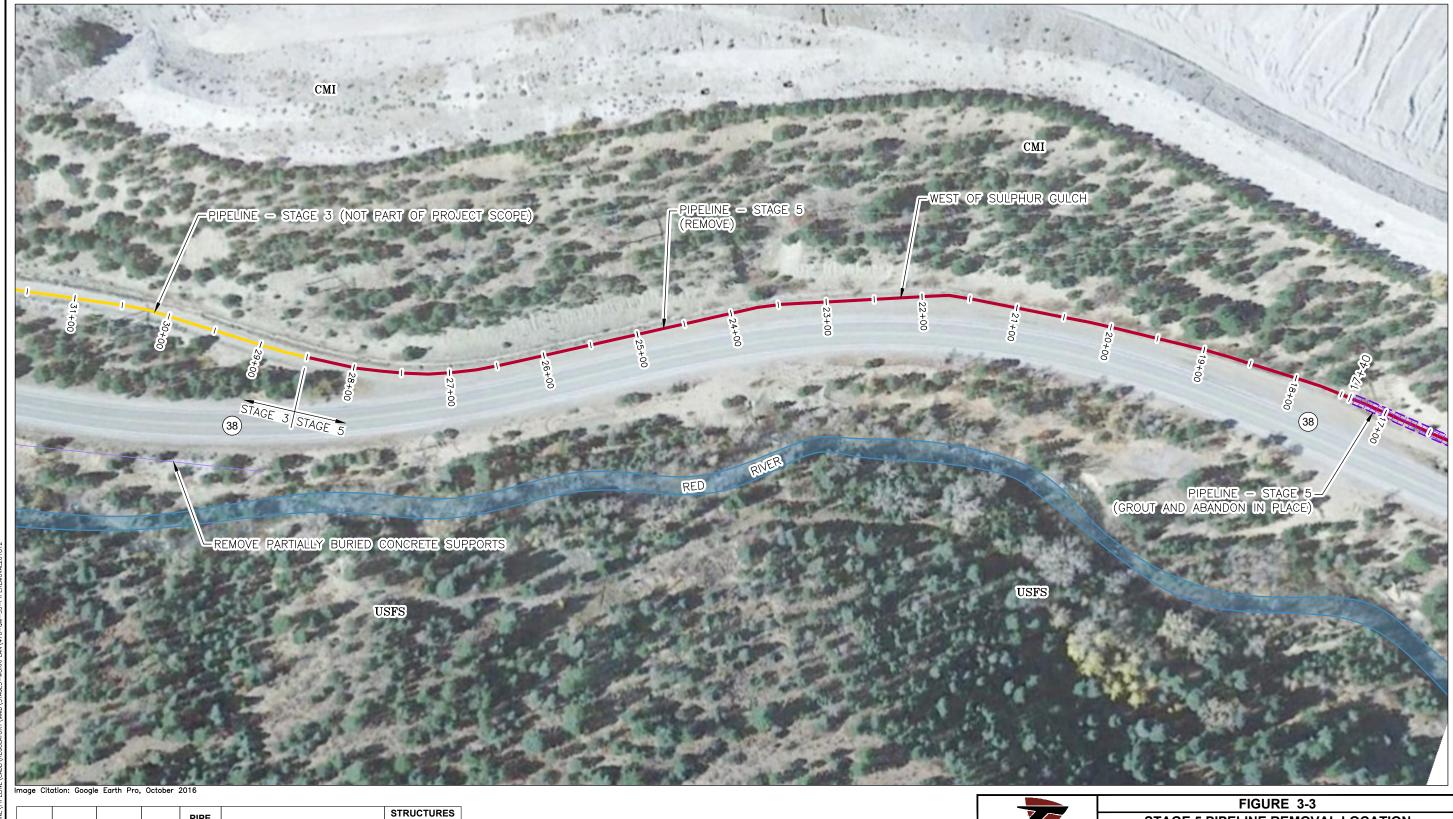




STAGE 5 PIPELINE REMOVAL LOCATION **EAST OF SULPHUR GULCH** STA. 7+38 THROUGH 17+40

> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100'



STAGE BEGIN END NO. OF LENGTH DESCRIPTION COUPLINGS (EA)

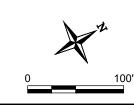
17+40

ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE

60

**EXPLANATION** 

GROUT AND ABANDON IN PLACE





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STAGE 5 PIPELINE REMOVAL LOCATION **WEST OF SULPHUR GULCH** STA. 17+40 THROUGH 28+50

> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100'



STAGE BEGIN END NO. OF LENGTH PIPES (LE) DESCRIPTION COUPLINGS (EA) ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE



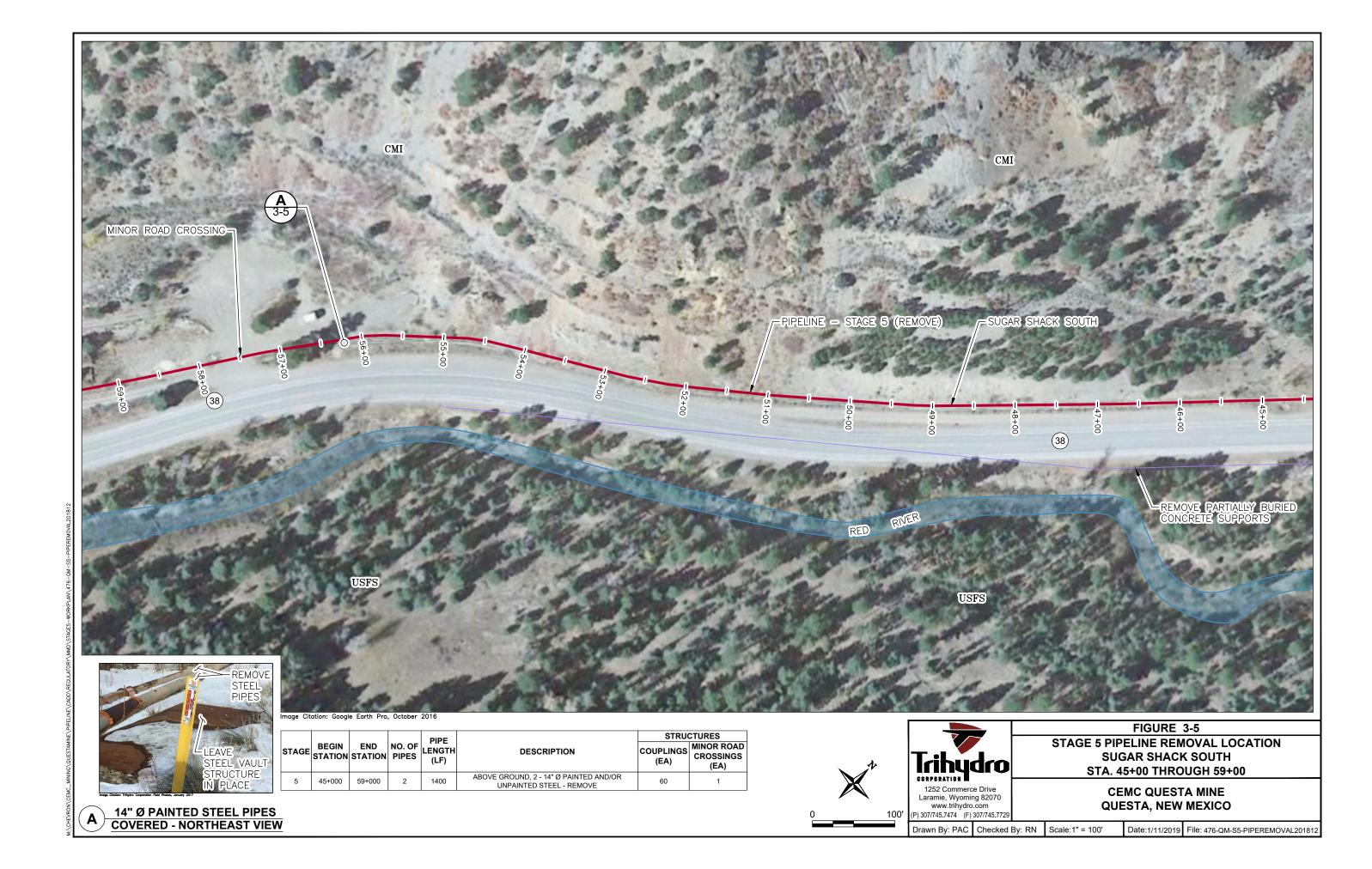
# Trihydro

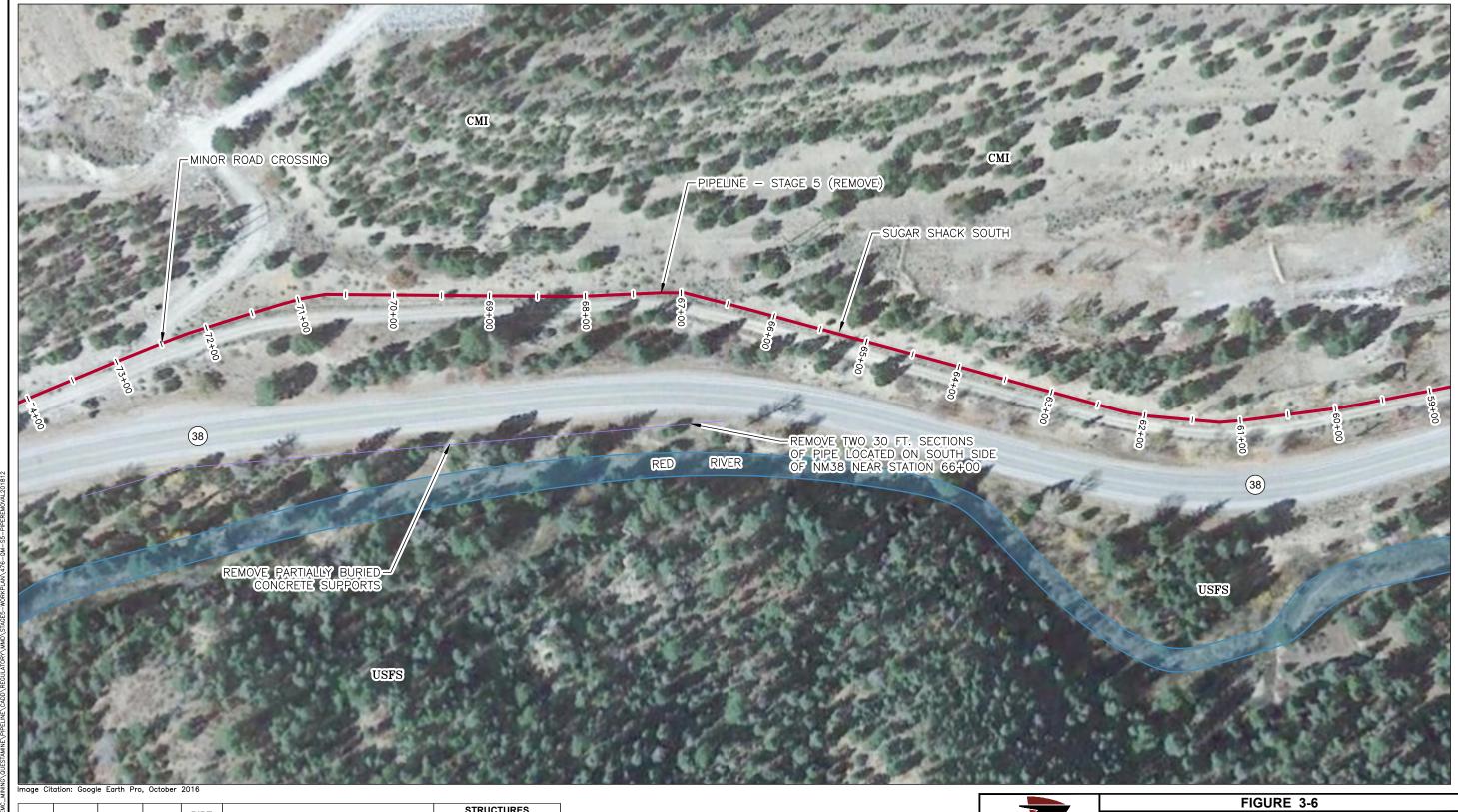
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STAGE 5 PIPELINE REMOVAL LOCATION **SUGAR SHACK SOUTH** STA. 36+00 THROUGH 45+00

> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100'





				PIPE		STRUC	CTURES
STAGE	BEGIN STATION	END STATION	NO. OF PIPES		DESCRIPTION	COUPLINGS (EA)	MINOR ROAD CROSSINGS (EA)
5	59+00	74+00	2	1500	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	90	1

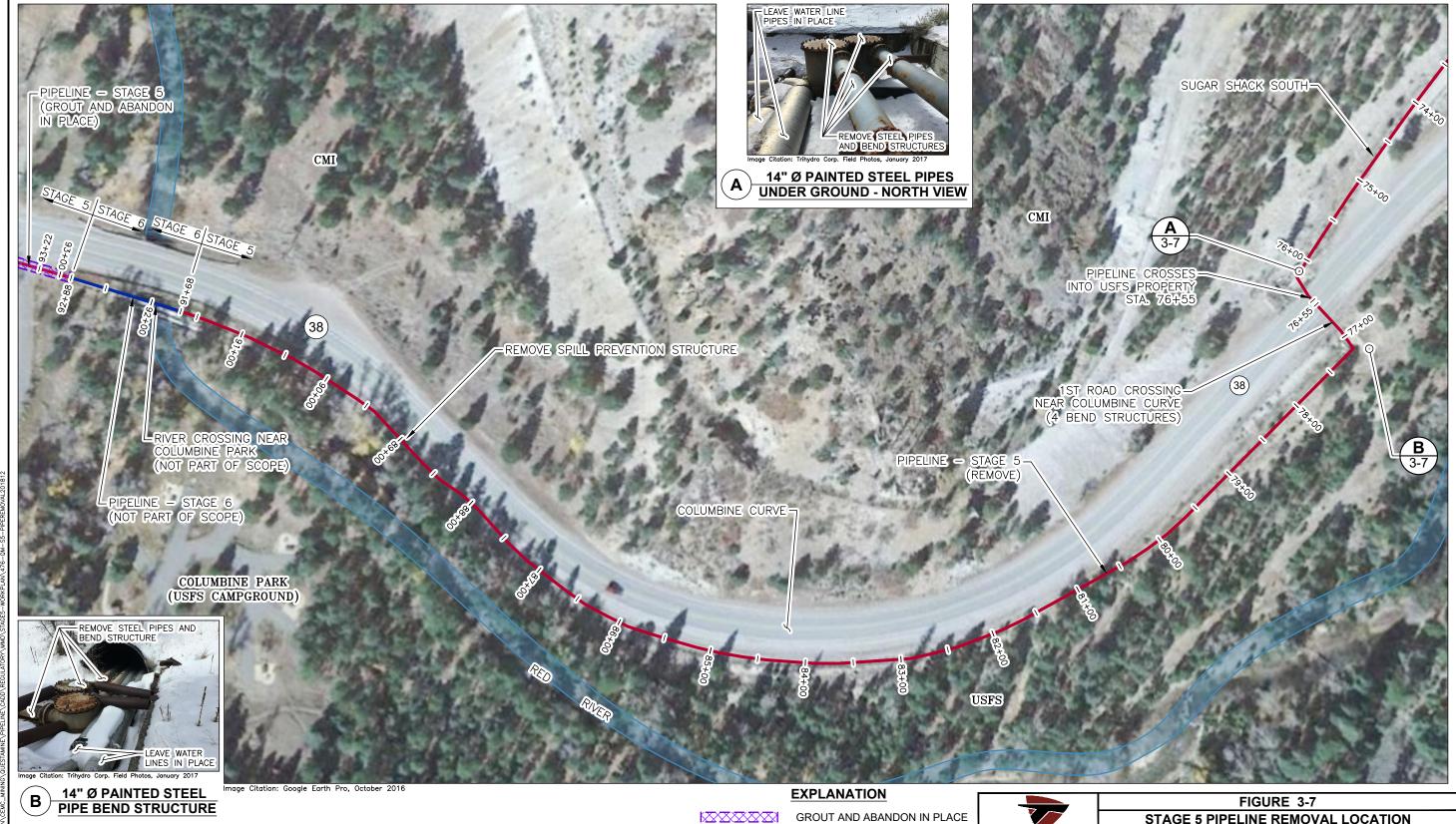


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# STAGE 5 PIPELINE REMOVAL LOCATION SUGAR SHACK SOUTH STA. 59+00 THROUGH 74+00

**CEMC QUESTA MINE QUESTA, NEW MEXICO** 

Drawn By: PAC | Checked By: RN | Scale:1" = 100' Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL201812

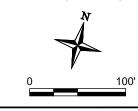


STAGE BEGIN END NO. OF LENGTH

74+00

STRUCTURES STEEL PIPE OTHER ROAD DESCRIPTION COUPLINGS STRUCTURES CROSSINGS (EA) (EA) (EA) (EA) ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE

GROUT AND ABANDON IN PLACE



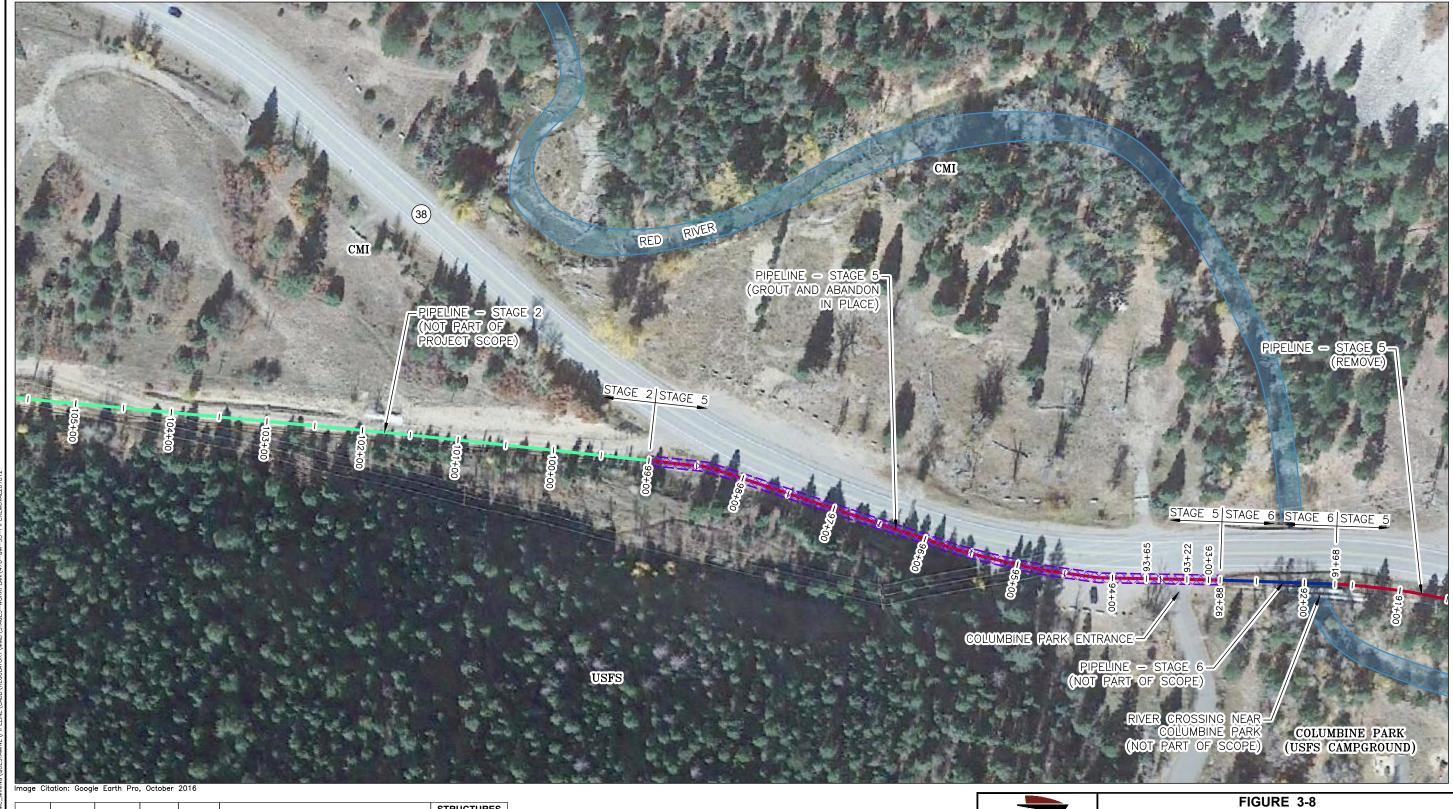
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Laramia Wyamina 92070	

Laramie, Wyoming 8207 www.trihydro.com P) 307/745.7474 (F) 307/745.772

# STAGE 5 PIPELINE REMOVAL LOCATION 1ST ROAD CROSSING AND COLUMBINE CURVE STA. 74+00 THROUGH 91+68

**CEMC QUESTA MINE QUESTA, NEW MEXICO** 

Drawn By: PAC | Checked By: RN | Scale:1" = 100' Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL201812



						STRUCTURES
STAGE	BEGIN STATION		NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	COUPLINGS (EA)
5	92+88	99+00	2	612	BELOW GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - ABANDON IN PLACE - GROUT	40

#### **EXPLANATION**

GROUT AND ABANDON IN PLACE



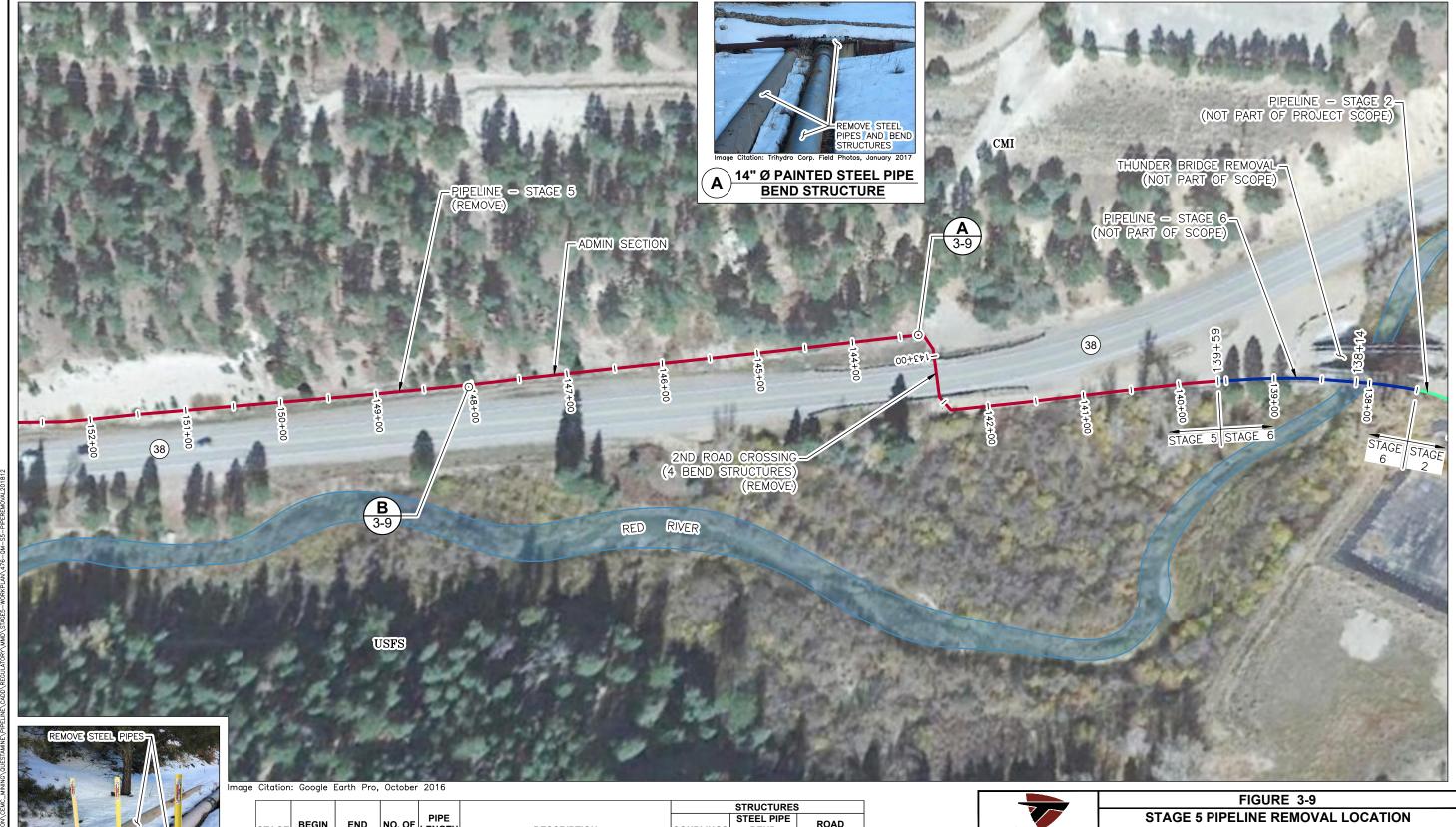
# Trihydro

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# STAGE 5 PIPELINE REMOVAL LOCATION COLUMBINE PARK ENTRANCE STA. 92+88 THROUGH 99+00

**CEMC QUESTA MINE QUESTA, NEW MEXICO** 

Drawn By: PAC | Checked By: RN | Scale:1" = 100'



14" Ø PAINTED STEEL PIPES - NORTH VIEW

STAGE BEGIN END NO. OF LENGTH ROAD DESCRIPTION COUPLINGS BEND CROSSINGS STRUCTURES (EA) (EA) ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE 139+59 152+50



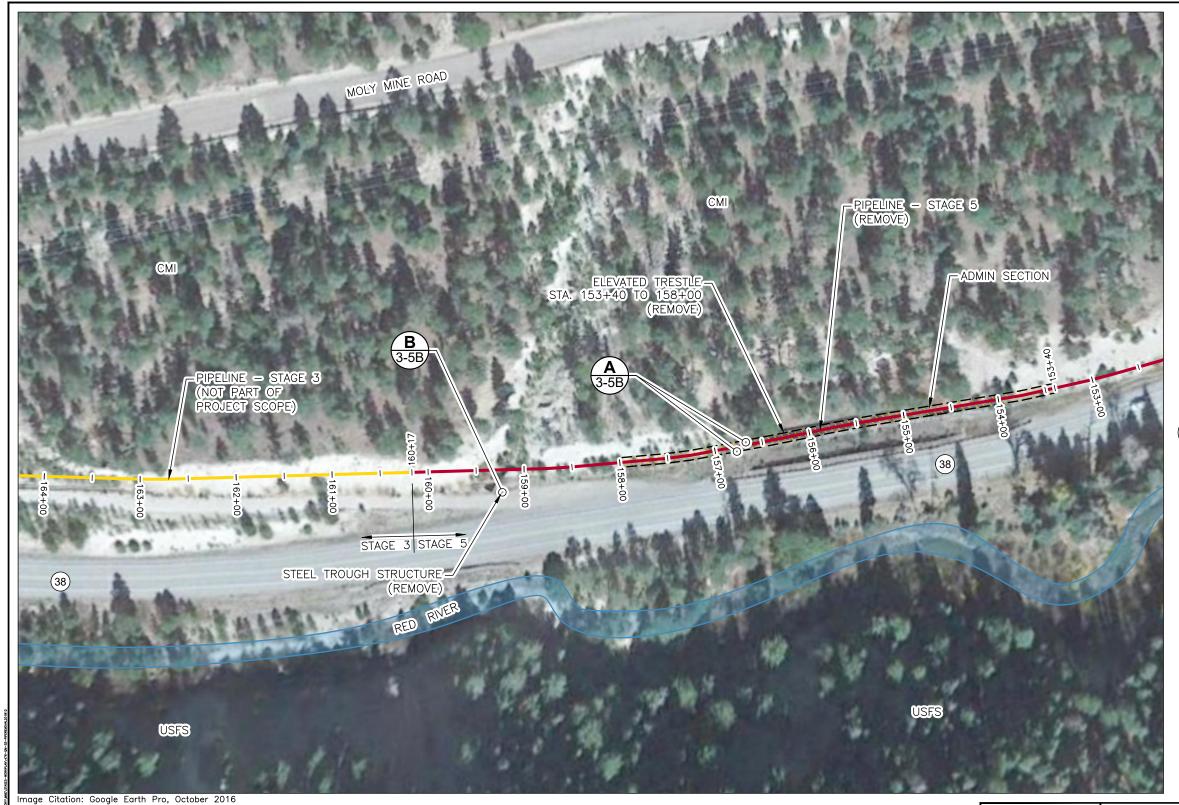


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2ND ROAD CROSSING AND ADMIN SECTION STA. 139+59 THROUGH 152+50

> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100'







14" Ø PAINTED STEEL PIPES ON **ELEVATED TRESTLES - EAST VIEW** 



B STEEL TROUGH STRUCTURE
- NORTH VIEW

						STRU	CTURES	
STAGE	BEGIN STATION	END STATION		SEGMENT LENGTH (LF)		COUPLINGS (EA)	OTHER STRUCTURES (EA)	
5	152+50	160+17	2	767	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL	40	2	
5	153+40	158+00	-	460	ELEVATED TRESTLE - REMOVE	-	-	
5	159+40	-	-	600	STEEL TROUGH STRUCTURE - REMOVE	-	-	

### **EXPLANATION**

I∏∏∏∏∏ ELEVATED TRESTLE





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### FIGURE 3-10 STAGE 5 PIPELINE REMOVAL LOCATION **ADMIN SECTION** STA. 152+50 THROUGH 160+17

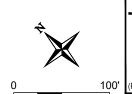
**CEMC QUESTA MINE QUESTA, NEW MEXICO** 

Drawn By: PAC | Checked By: RN | Scale:1" = 100'

Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL201812



						STRUCTURES
STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	COUPLINGS (EA)
5	181+49	183+00	3	151	ABOVE GROUND, 3 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	15
5	183+00	196+00	2	1300	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	70





STAGE 5 PIPELINE REMOVAL LOCATION **BETWEEN GOAT HILL AND BEAR CUT** STA. 181+49 THROUGH 196+00

> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100' Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL201812



	STAGE	BEGIN STATION	END STATION	NO. OF PIPES	PIPE LENGTH (LF)	DESCRIPTION	COUPLINGS (EA)
l	5	196+00	208+00	2	1200	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	50



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STAGE 5 PIPELINE REMOVAL LOCATION BETWEEN GOAT HILL AND BEAR CUT STA. 196+00 THROUGH 208+00

CEMC QUESTA MINE QUESTA, NEW MEXICO

Drawn By: PAC | Checked By: RN | Scale:1" = 100' Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL201812

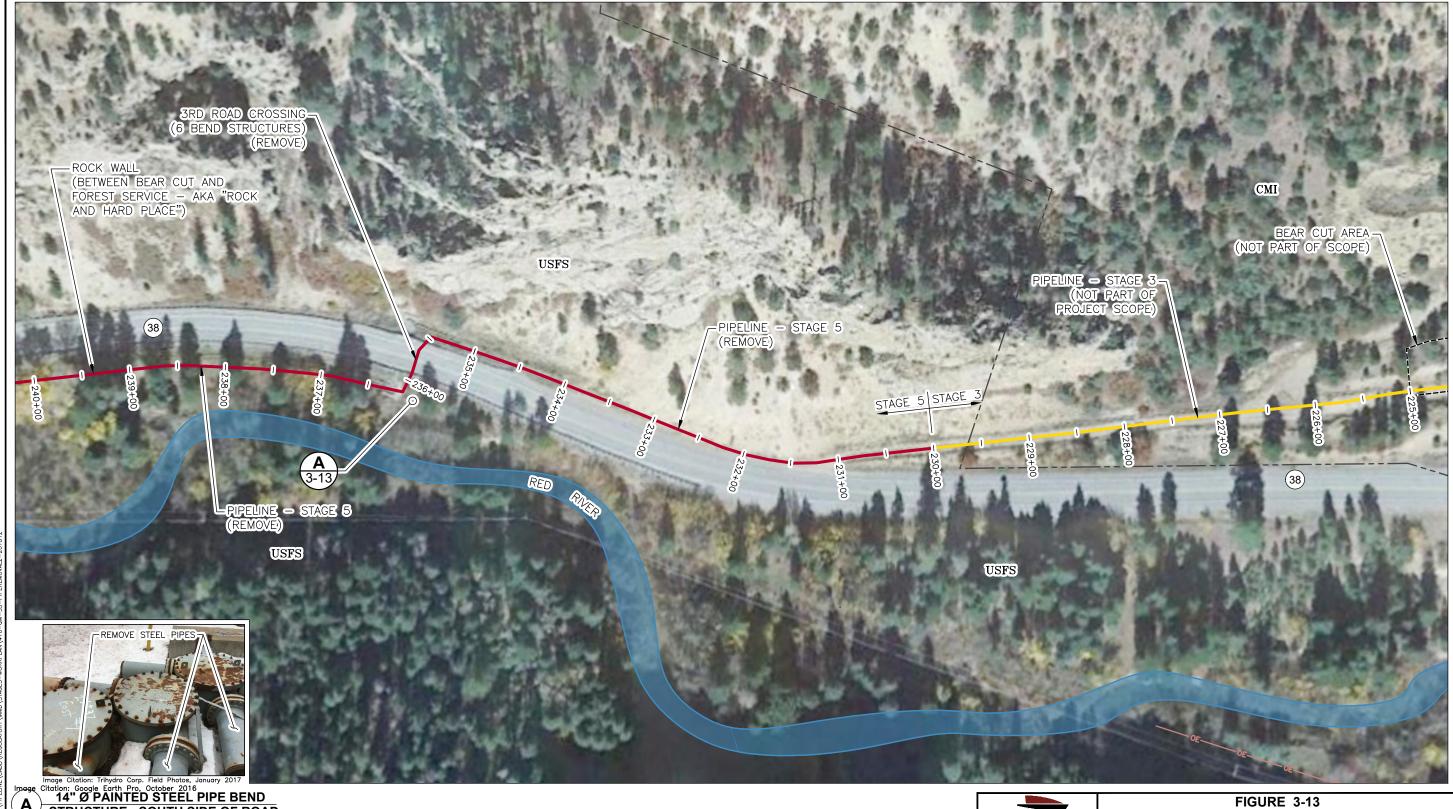


Image Citation: Google Earth Pro, October 2016

14" Ø PAINTED STEEL PIPE BEND

STRUCTURE - SOUTH SIDE OF ROAD

ı				NO. OF PIPES	PIPE LENGTH (LF)		STRUC	CTURES
	STAGE	BEGIN STATION	END STATION			DESCRIPTION	COUPLINGS (EA)	STEEL PIPE BEND STRUCTURES (EA)
l	5	230+00	240+00	2	1000	ABOVE GROUND, 2 - 14" Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	30	6



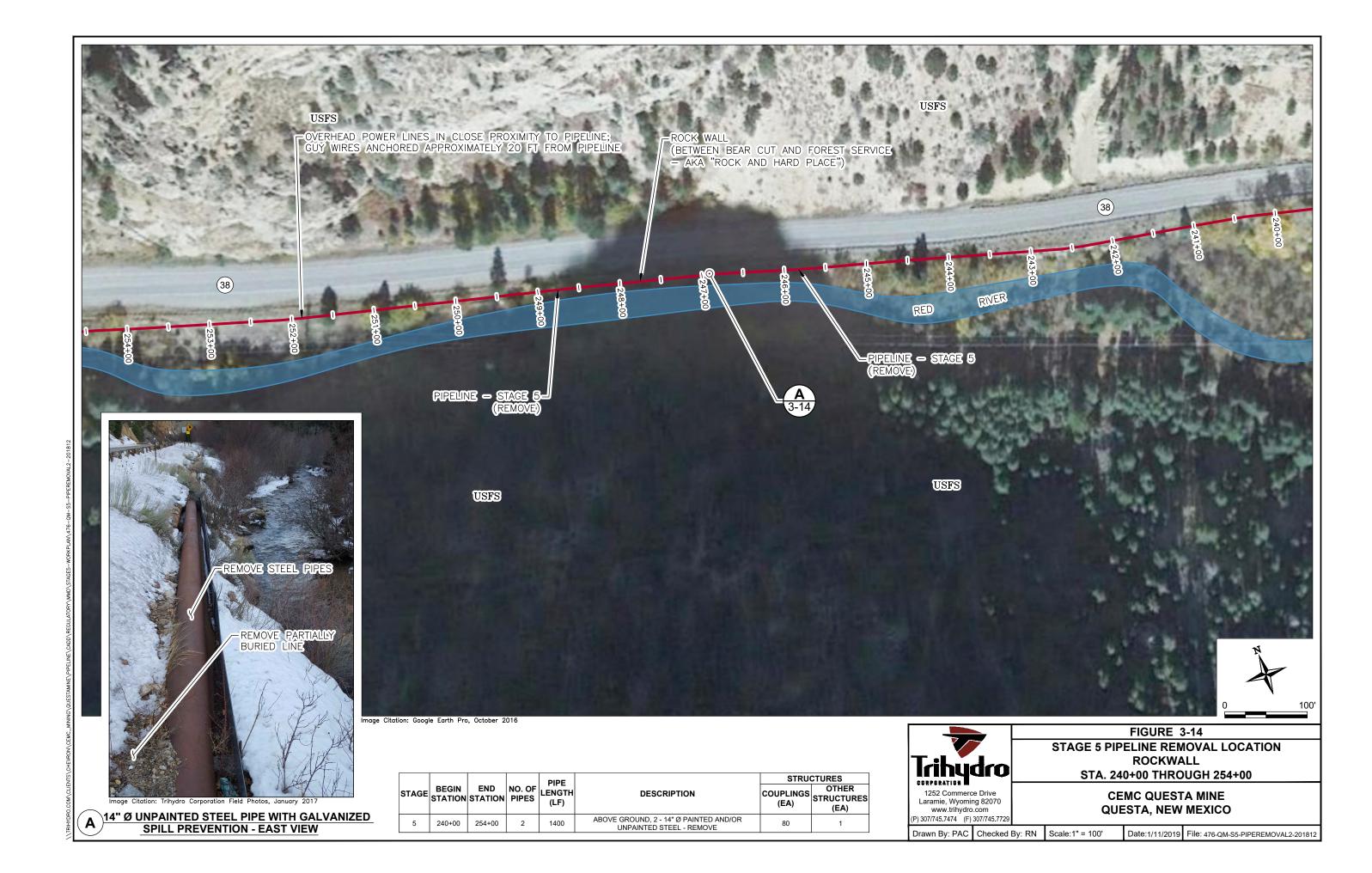
Trihydro

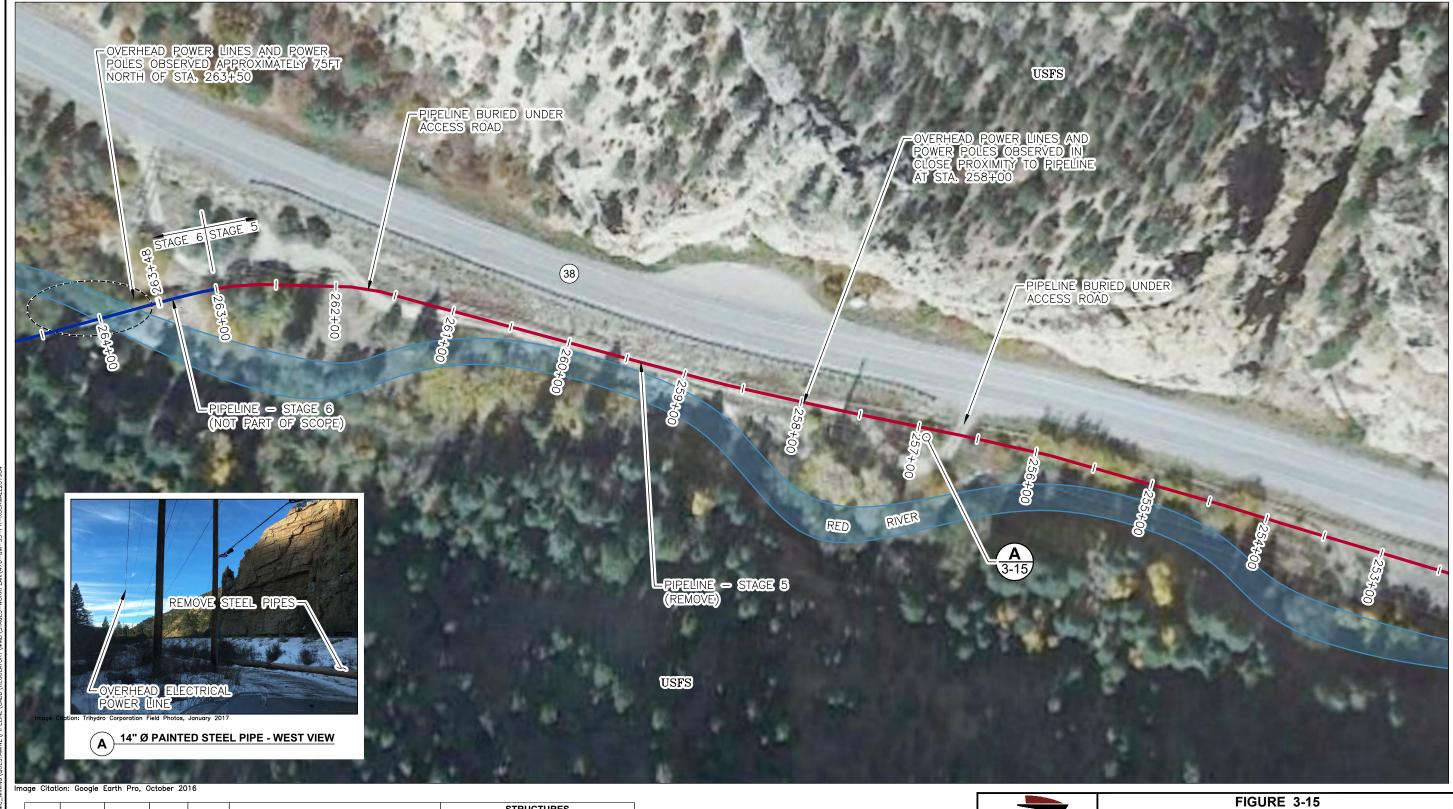
1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (P) 307/745.7474 (F) 307/745.7729

STAGE 5 PIPELINE REMOVAL LOCATION 3RD ROAD CROSSING AND ROCKWALL STA. 230+00 THROUGH 240+00

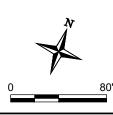
> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100' Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL2-201812





		END STATION	NO. OF PIPES	PIPE LENGTH (LF)		STRUCTURES				
STAGE	BEGIN STATION				DESCRIPTION	COUPLINGS (EA)	CONCRETE THRUST BLOCK (EA)	MINOR ROAD CROSSINGS		
5	254+00	263+00	2	900	ABOVE GROUND, 2 -14"Ø PAINTED AND/OR UNPAINTED STEEL - REMOVE	50	UNKNOWN	2		





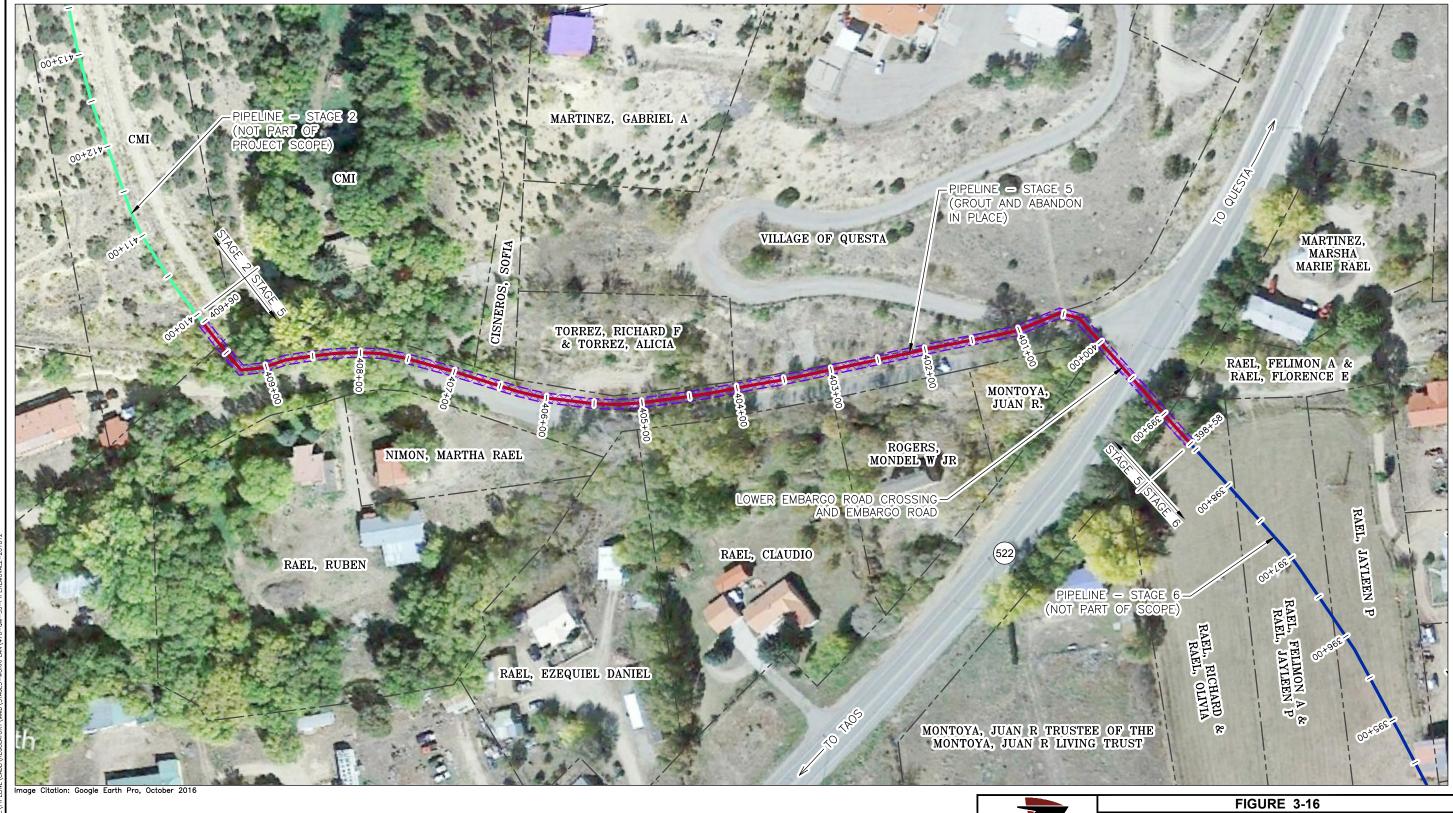
1252 Commerce Drive Laramie, Wyoming 82070 www.trihydro.com (P) 307/745.7474 (F) 307/745.7729

### STAGE 5 PIPELINE REMOVAL LOCATION ROCKWALL STA 254+00 THROUGH 263+00

**CEMC QUESTA MINE QUESTA, NEW MEXICO** 

Drawn By: PAC | Checked By: RN | Scale:1" = 80'

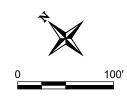
Date:1/11/2019 File: 476-QM-S5-PR-ROCKWALL201904



STAGE BEGIN END LENGTH DESCRIPTION BELOW GROUND, 2 - 14" Ø PAINTED AND/OR JNPAINTED STEEL - GROUT AND ABANDON IN PLACE 398+58 409+90

### **EXPLANATION**

GROUT AND ABANDON IN PLACE



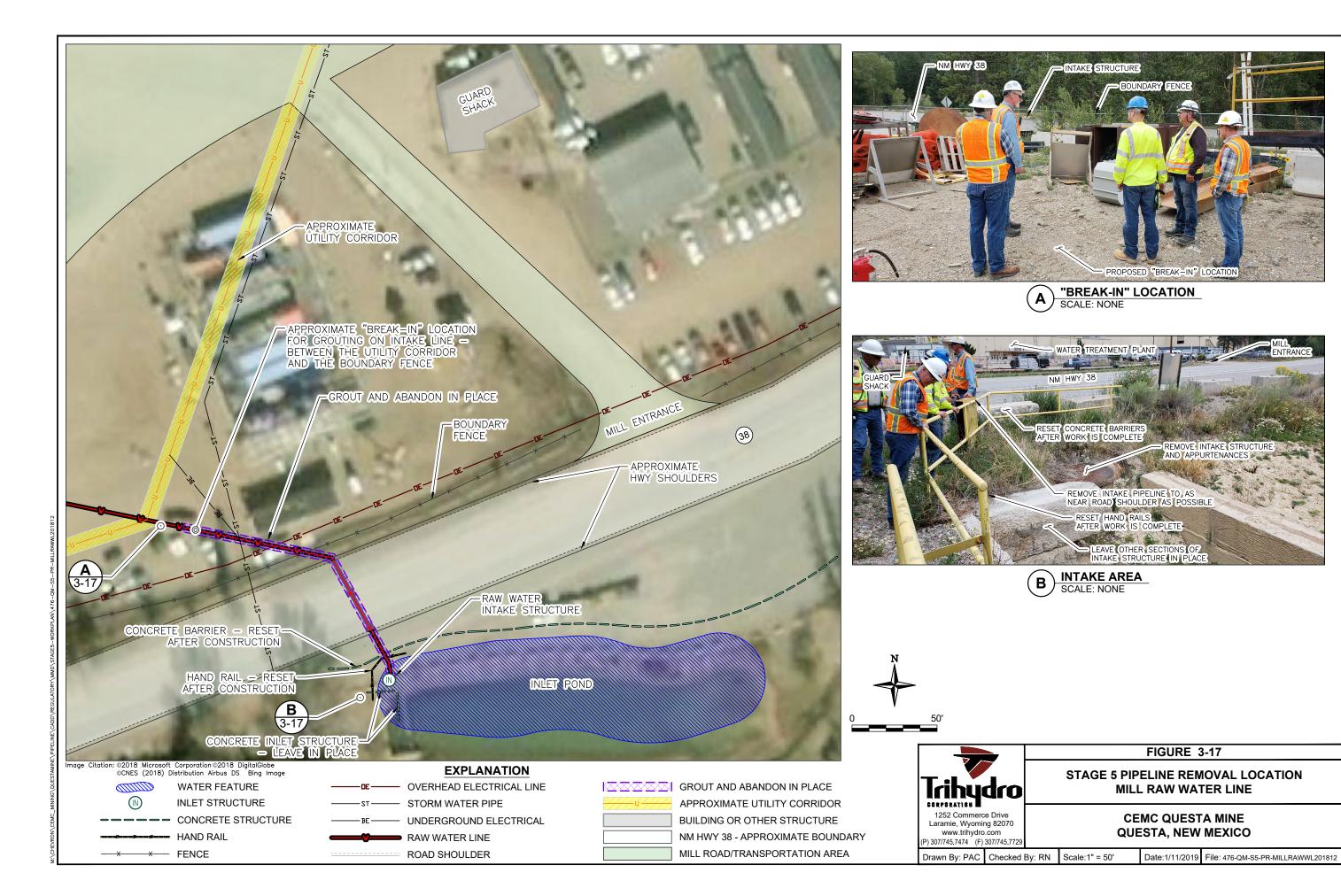


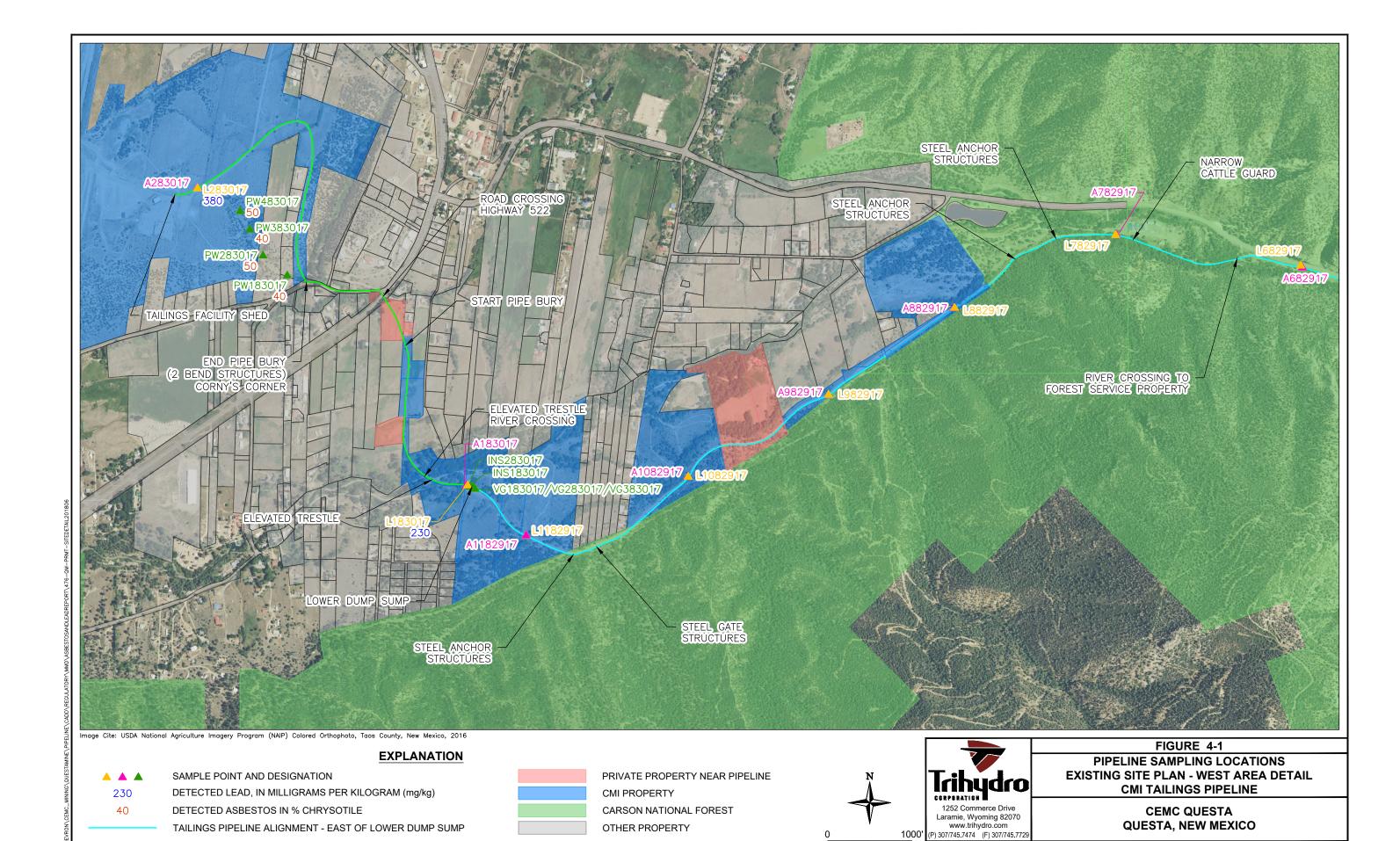
**STAGE 5 PIPELINE REMOVAL LOCATION** LOWER EMBARGO ROAD CROASSING AND EMBARGO ROAD - STA. 398+58 THROUGH 409+90

> **CEMC QUESTA MINE QUESTA, NEW MEXICO**

Drawn By: PAC | Checked By: RN | Scale:1" = 100'

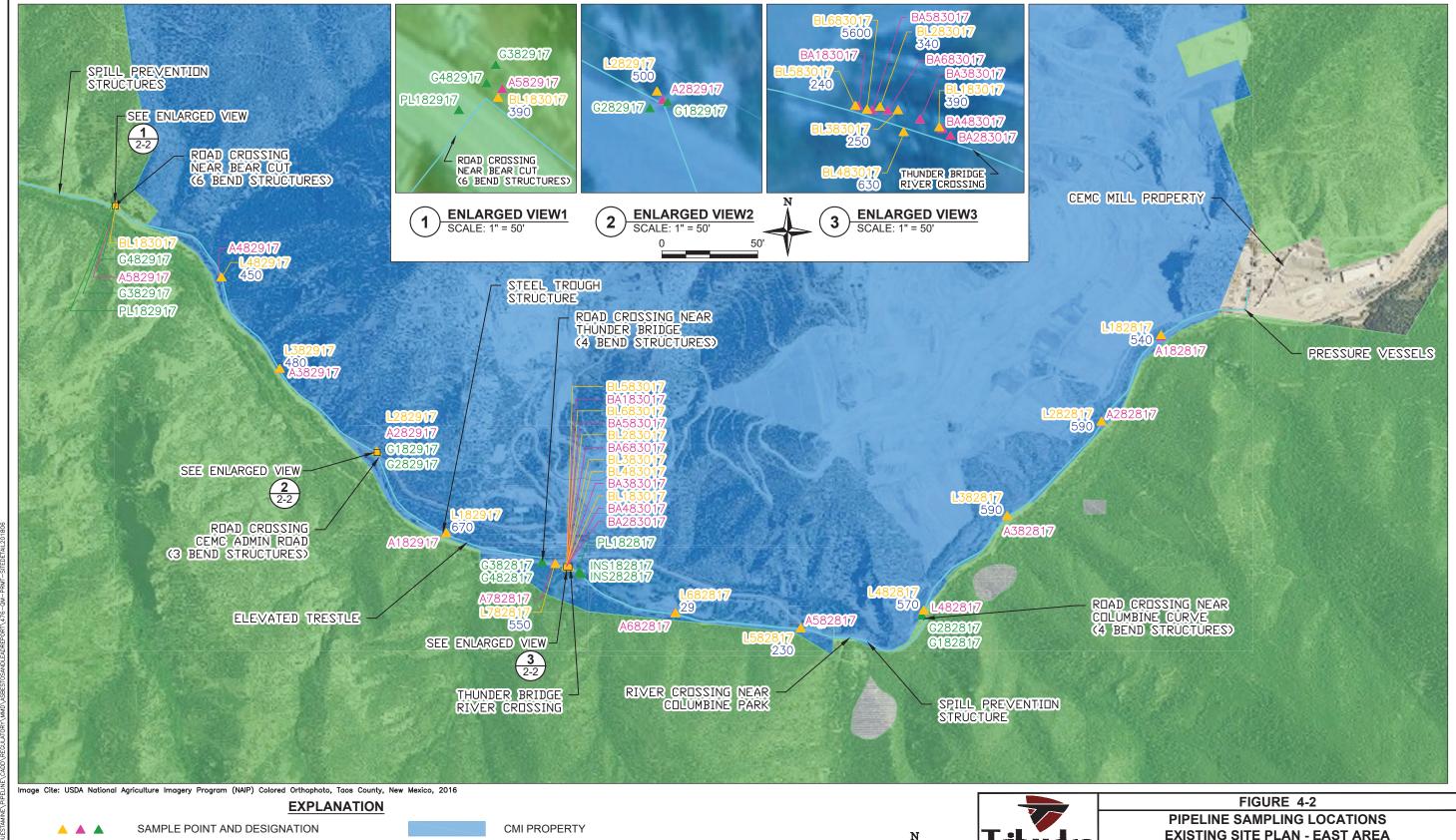
Date:1/11/2019 File: 476-QM-S5-PIPEREMOVAL2-201812





Drawn By: PC | Checked By: CS | Scale: 1" = 1000' | Date: 6/18/18 | File: 476-QM-PRMT-SITEDETAIL201806

TAILINGS PIPELINE ALIGNMENT - WEST OF LOWER DUMP SUMP



550

DETECTED LEAD, IN MILLIGRAMS

TAILINGS PIPELINE ALIGNMENT - EAST OF LOWER DUMP SUMP

PER KILOGRAM (mg/kg)



CARSON NATIONAL FOREST OTHER PROPERTY





www.trihydro.com

**EXISTING SITE PLAN - EAST AREA CMI TAILINGS PIPELINE** 

> **CEMC QUESTA QUESTA, NEW MEXICO**

Drawn By: PC Checked By: CS Scale: 1" = 1500' Date: 4/26/17 File: 476-QM-PRMT-SITEDETAIL201806

### **APPENDIX A**

**STAGE 5 SITE AND UTILITY LAYOUTS** 

## XQ003-19 Tailings Pipeline Removal Stages 3-7 STAGE 5 SITE AND UTILITY LAYOUTS

### QUESTA MINE SUPERFUND SITE

### QUESTA, NEW MEXICO

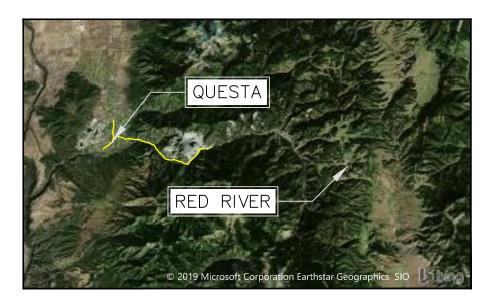
MAY 7, 2019



SITE LOCATION MAP

## PREPARED FOR: Chevron Environmental

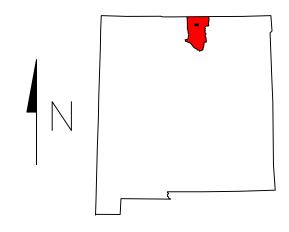
Management And Real Estate Company



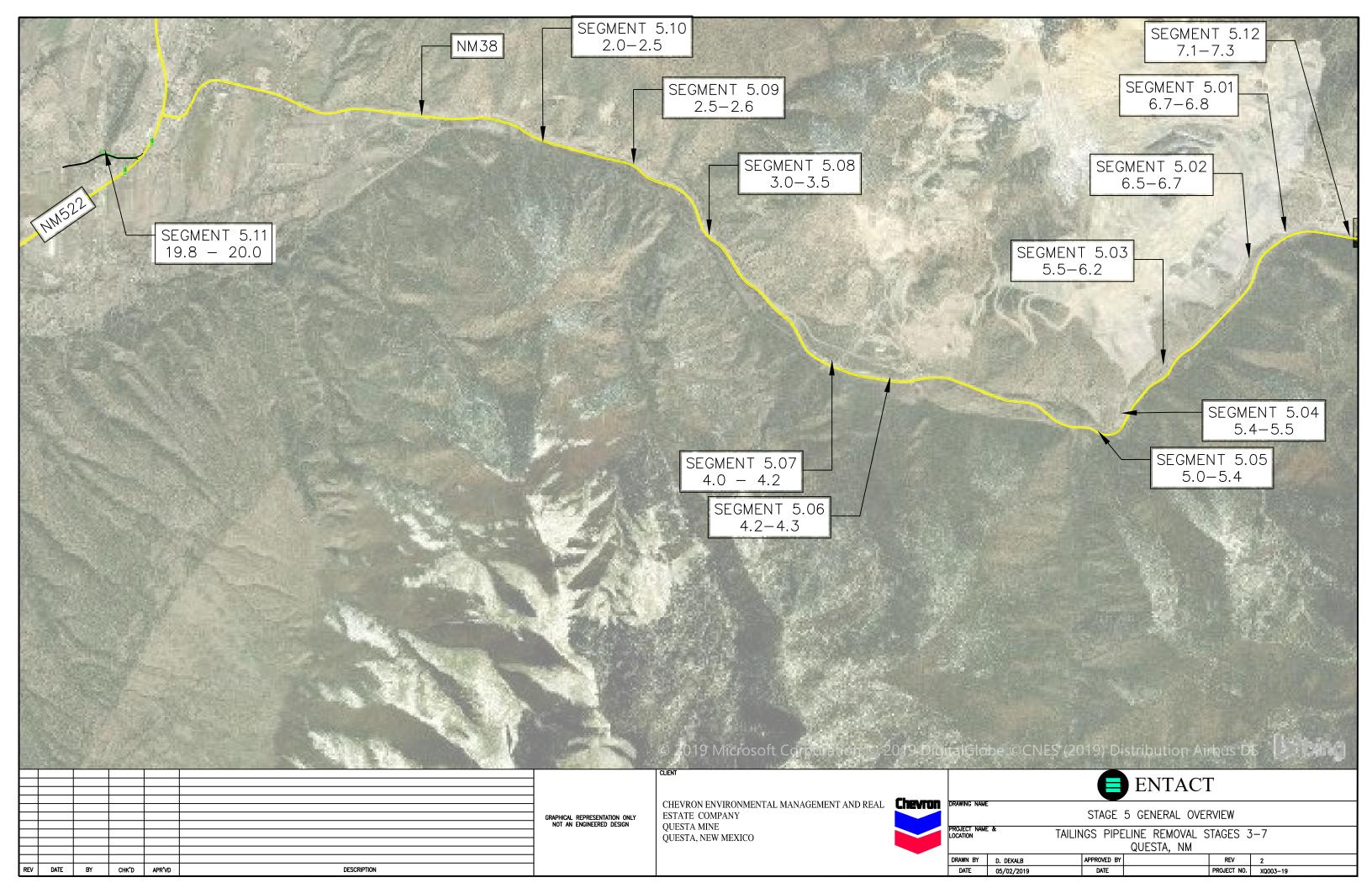
PROJECT VICINITY MAP

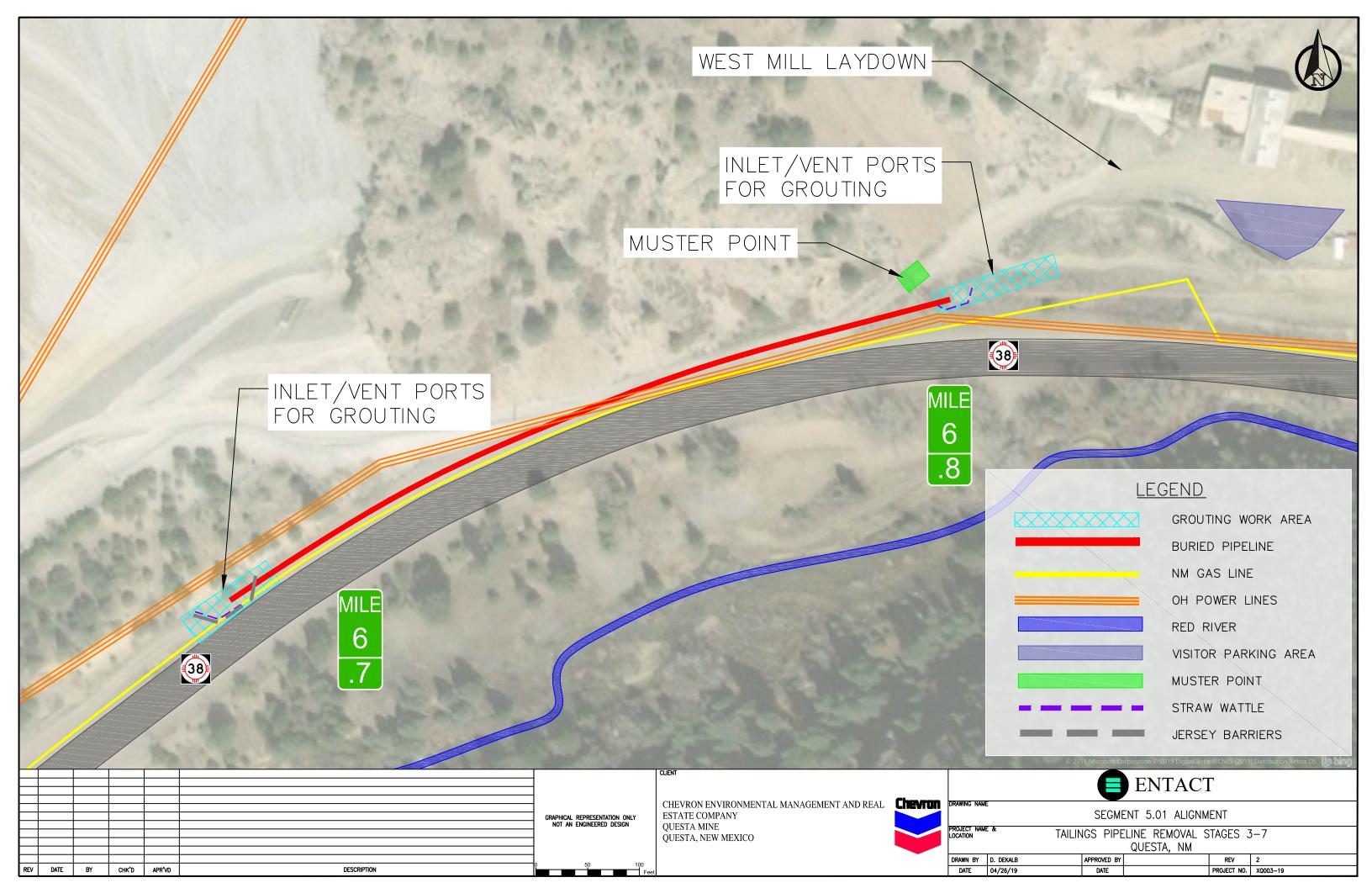


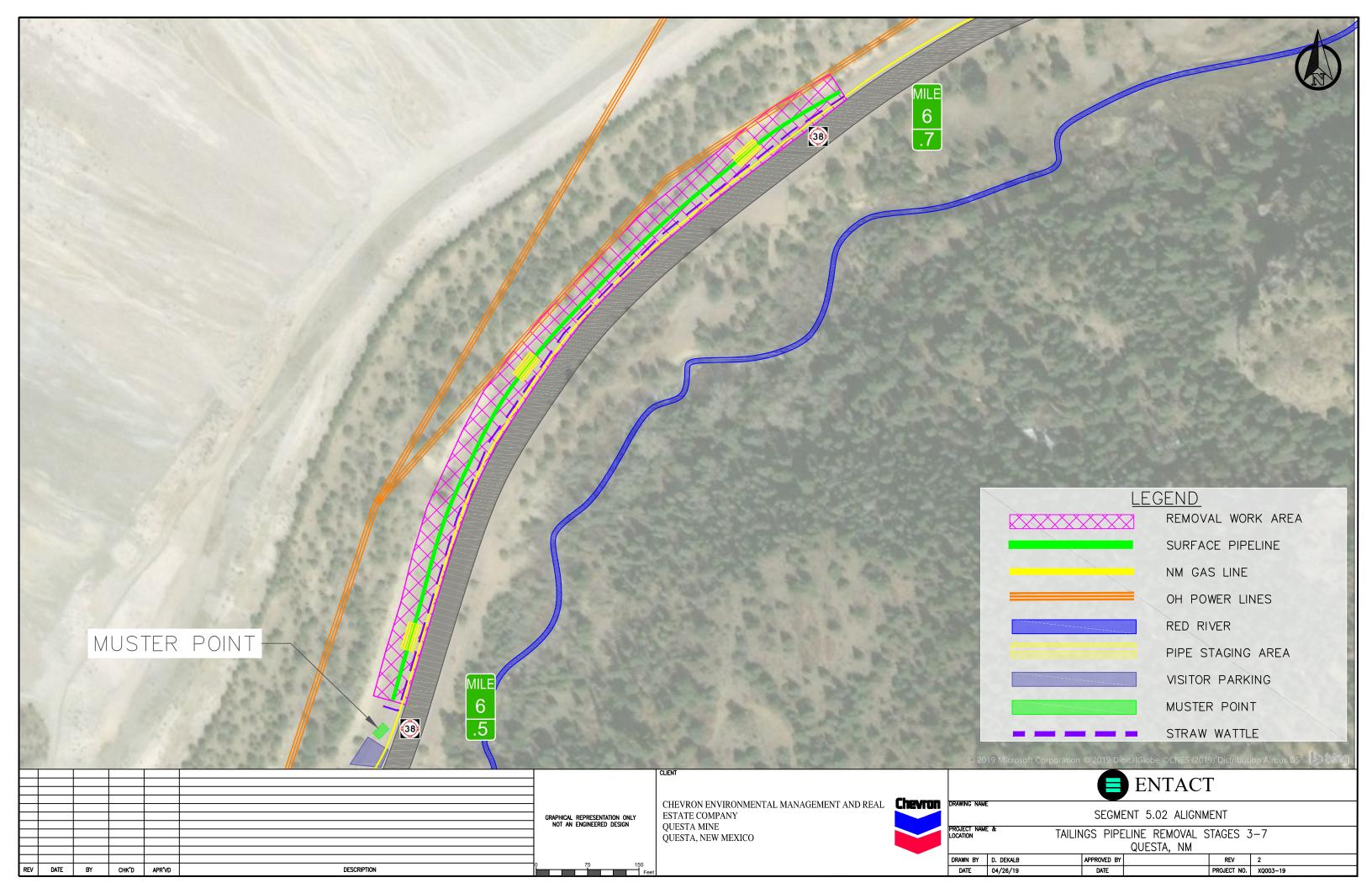
VILLAGE OF QUESTA - TAOS COUNTY, NM

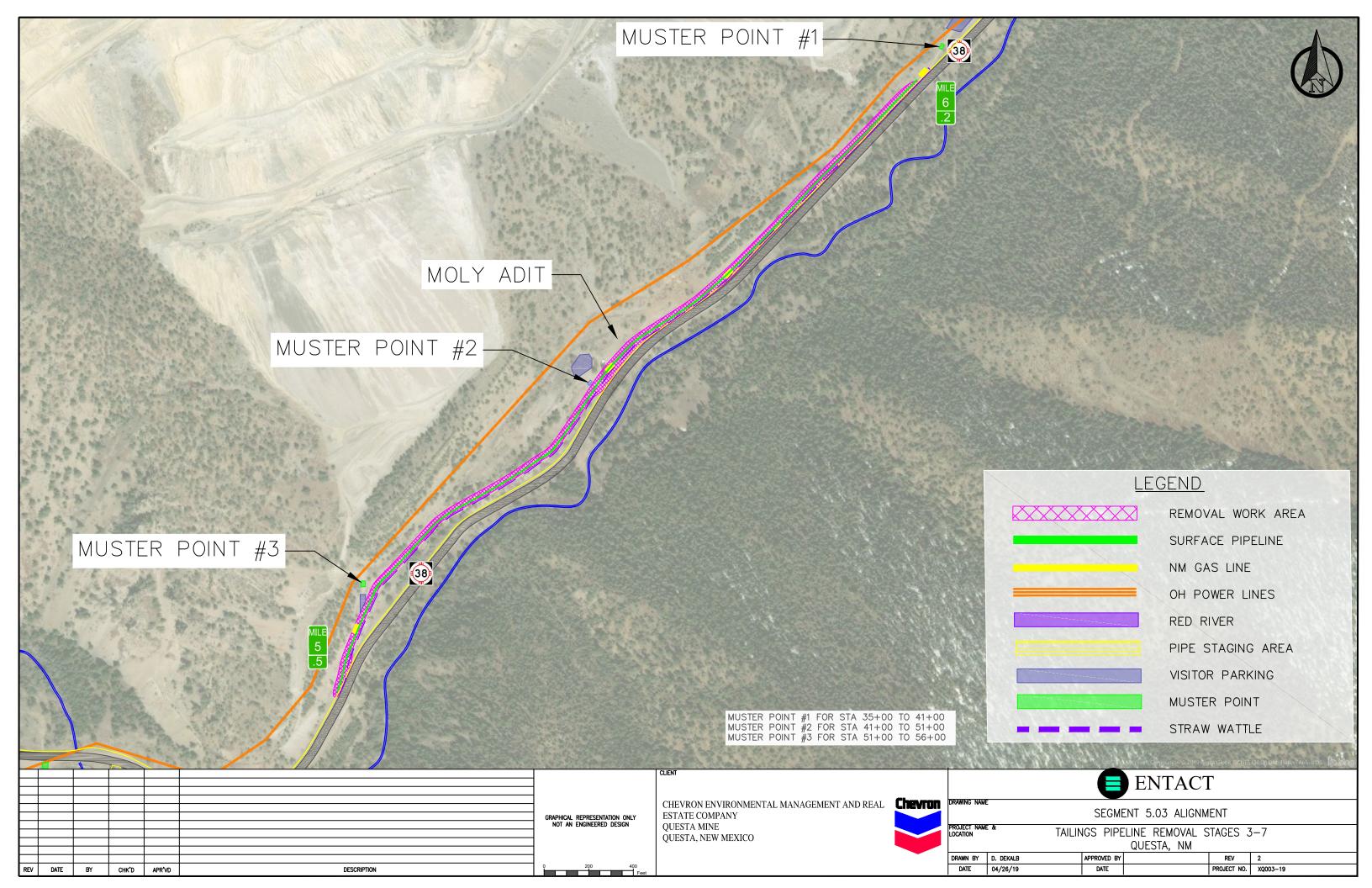


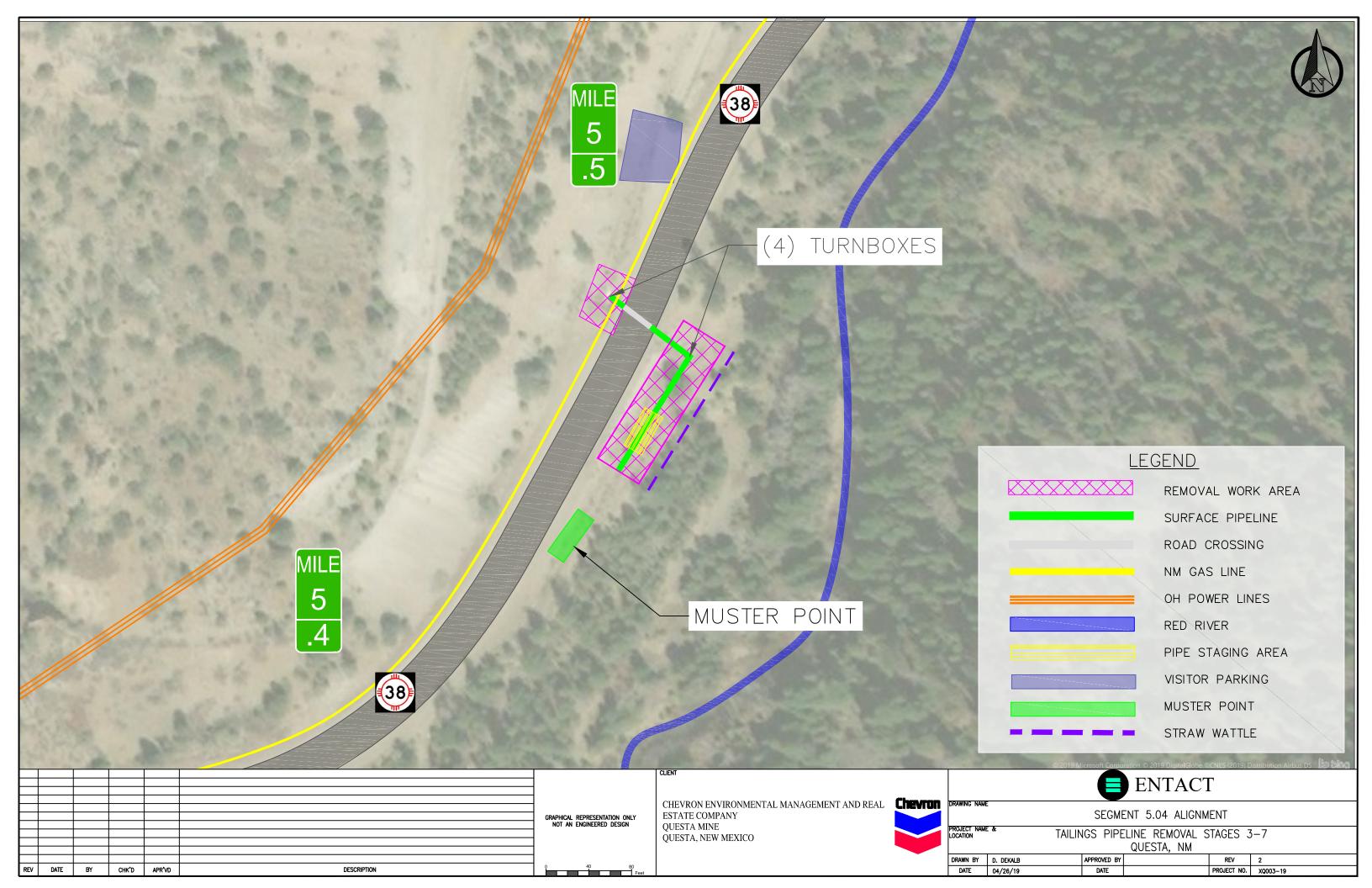


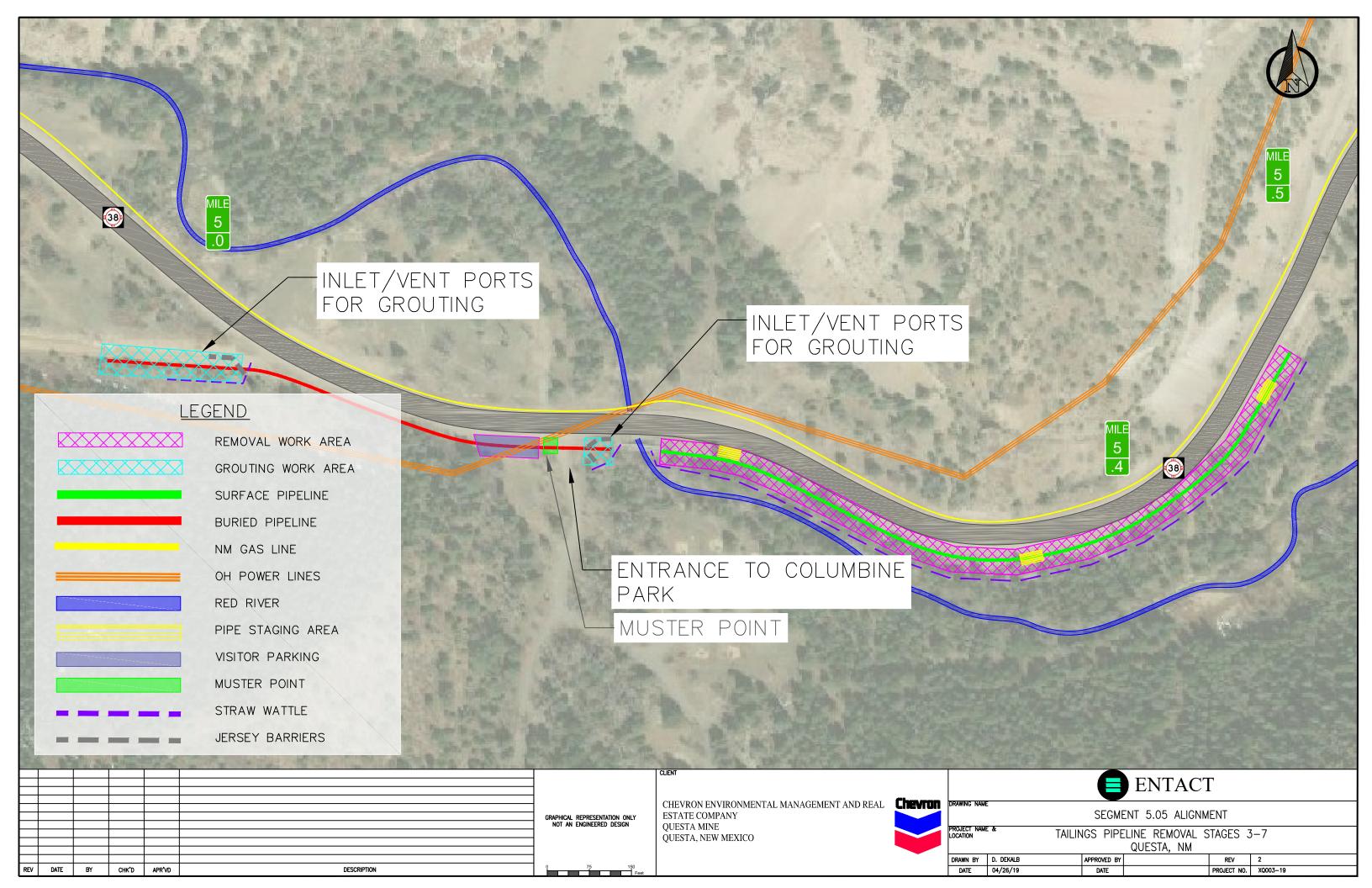


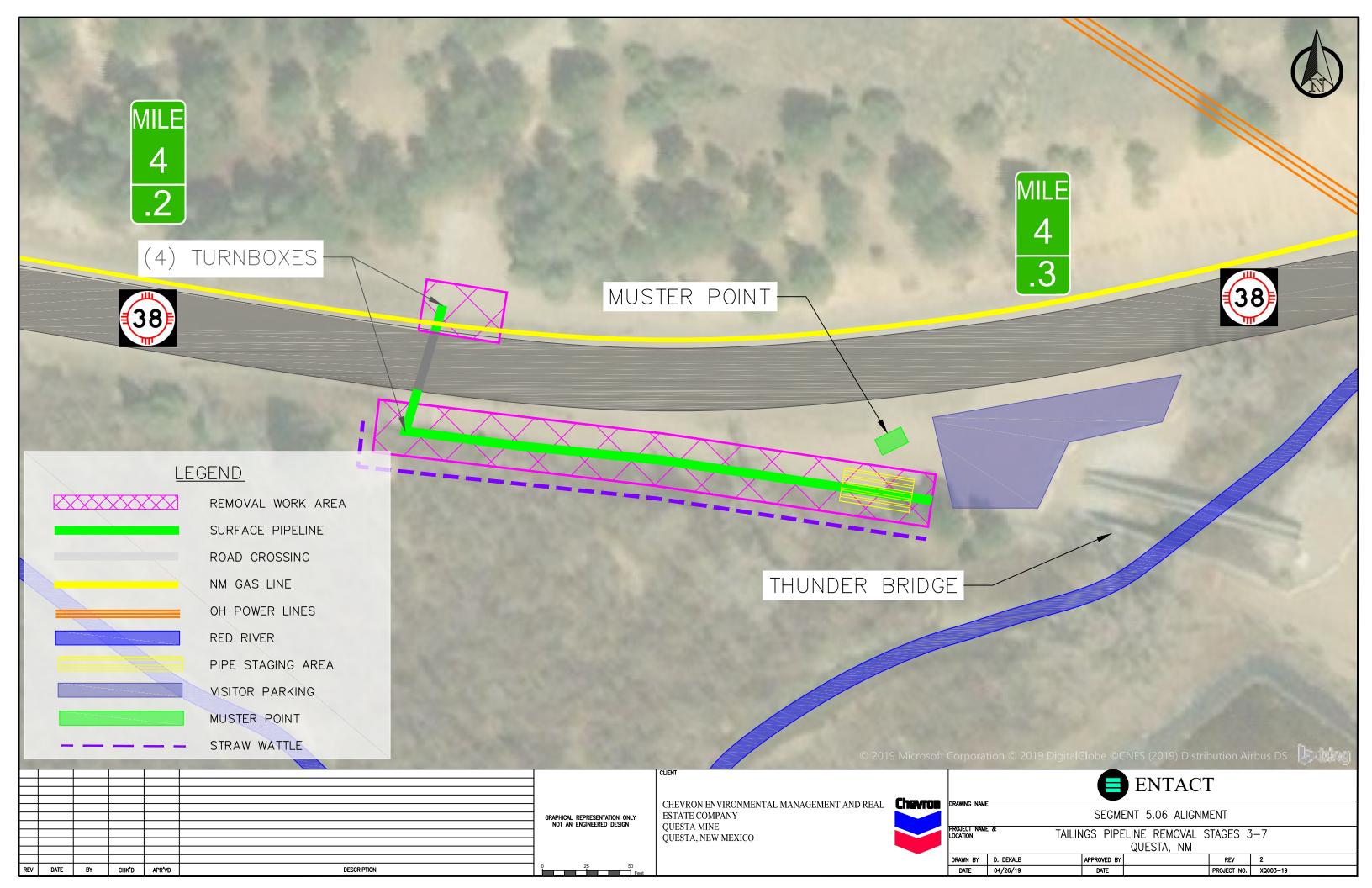


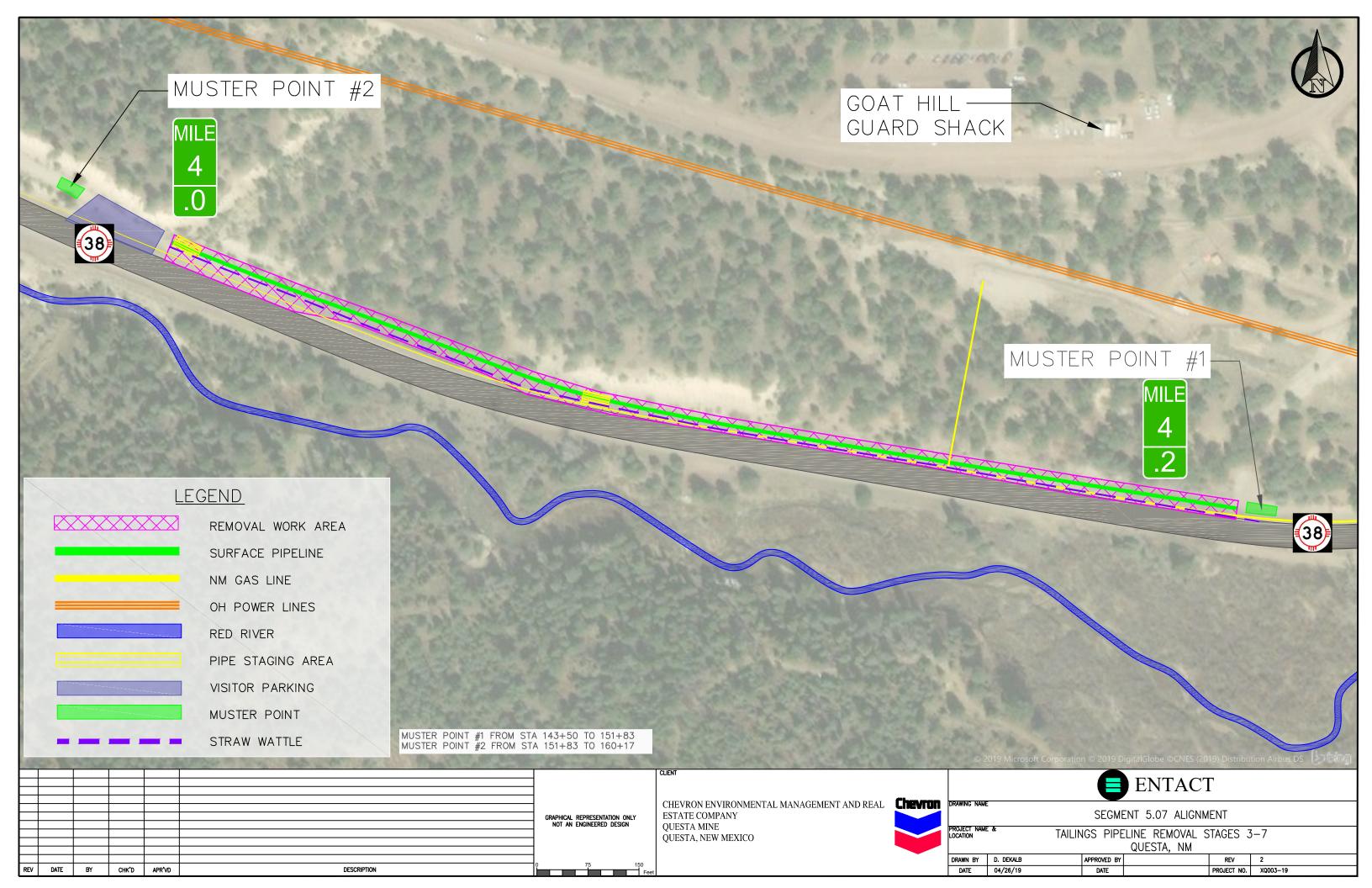


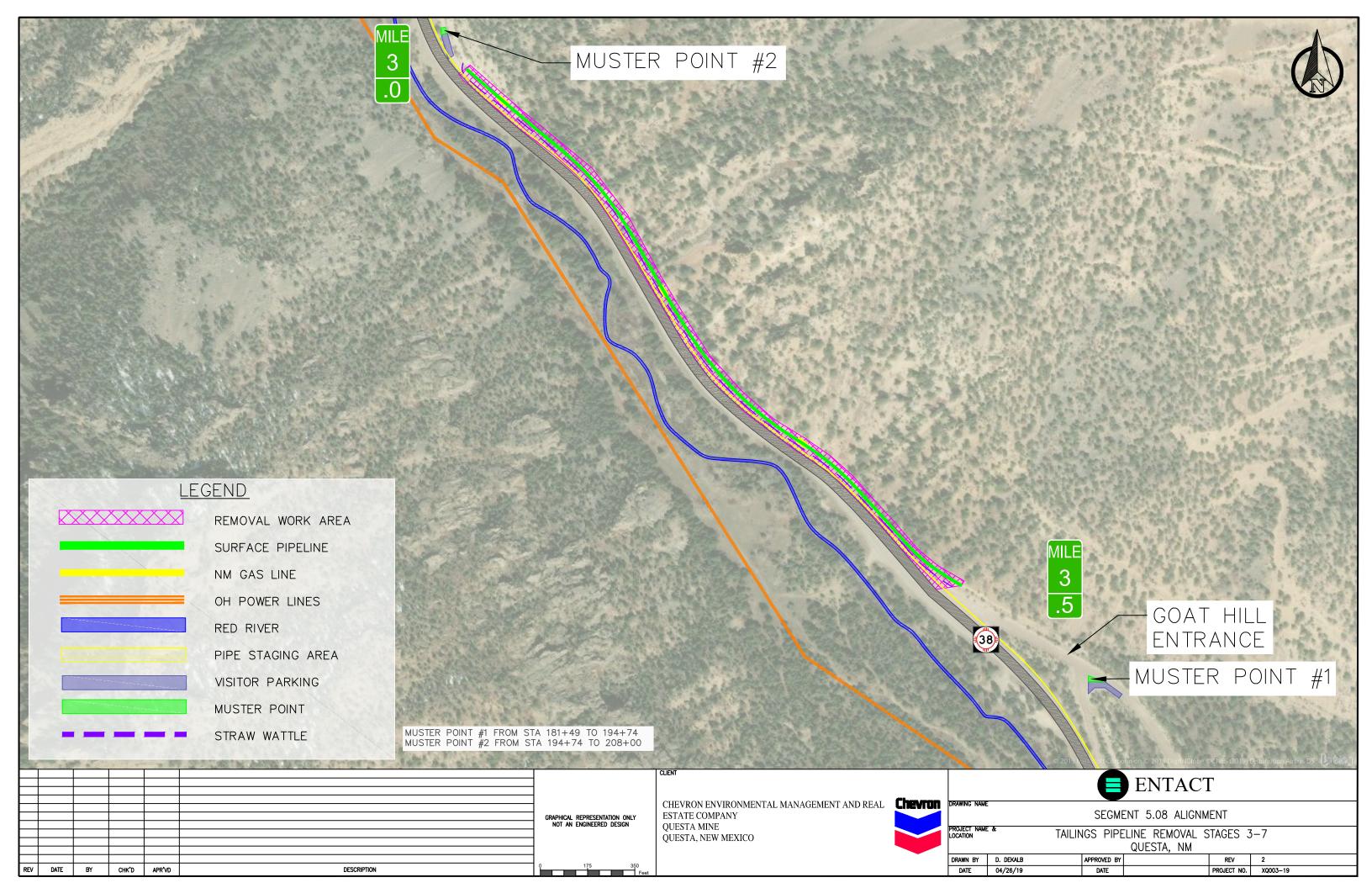


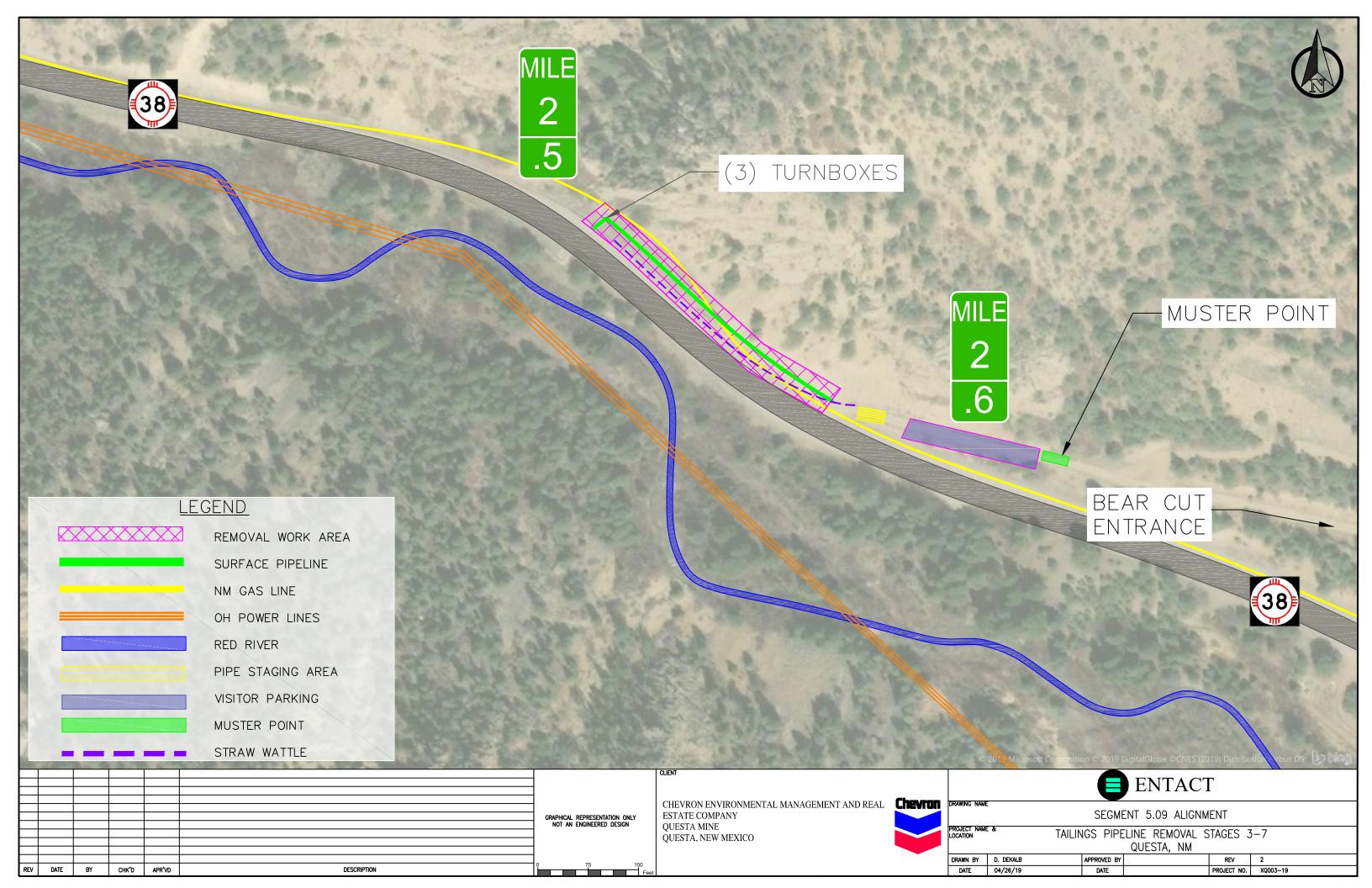


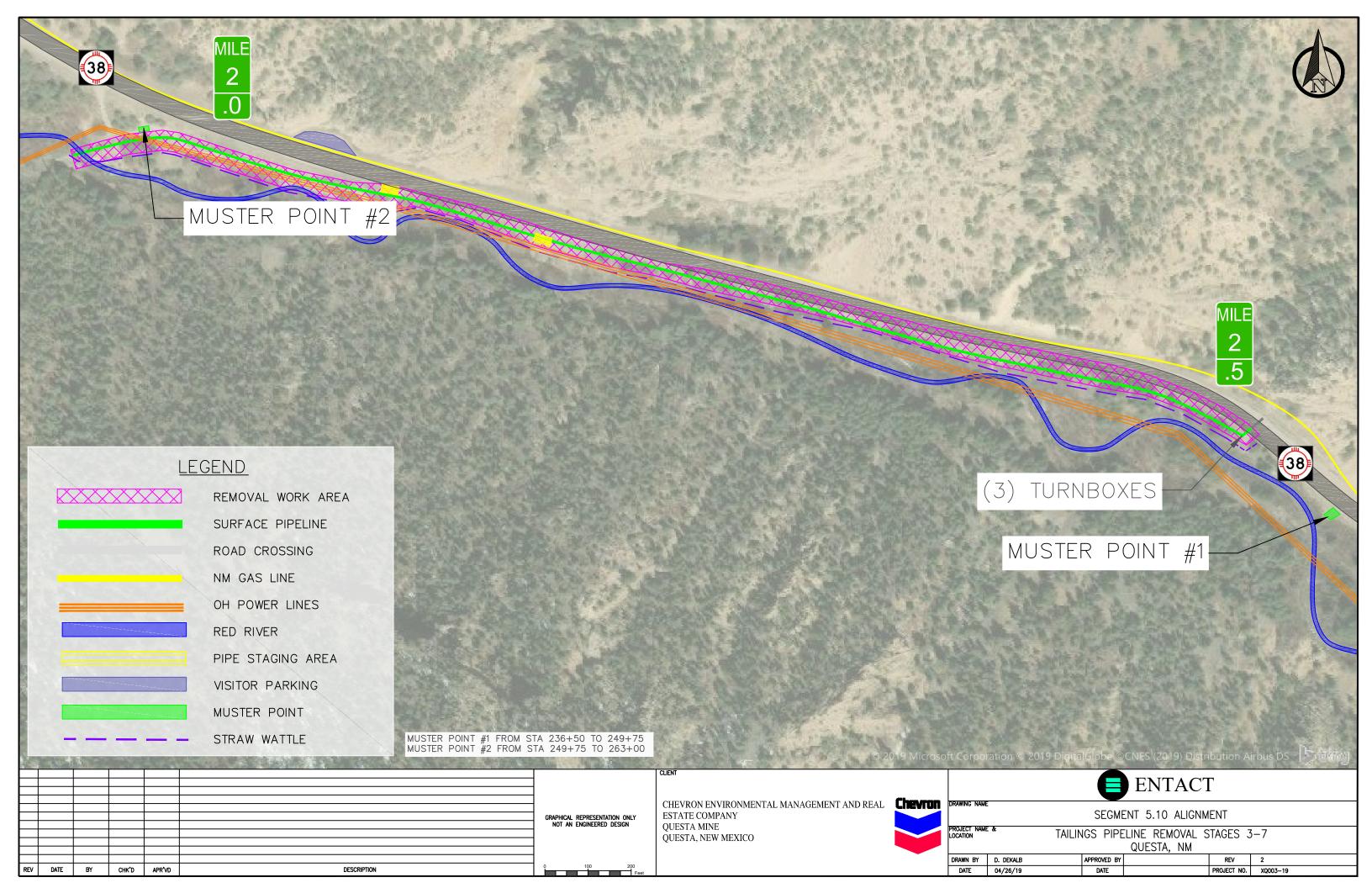


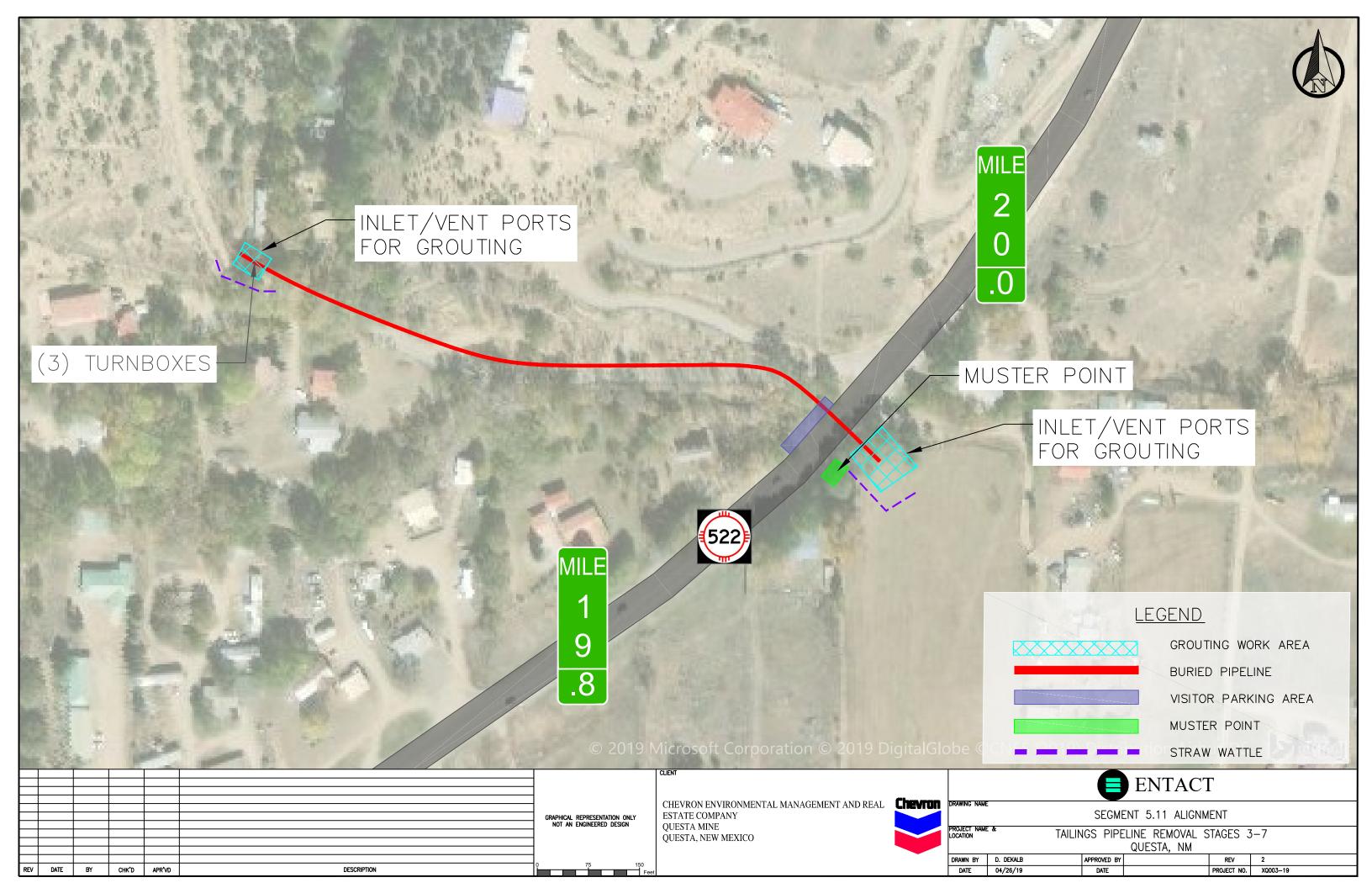


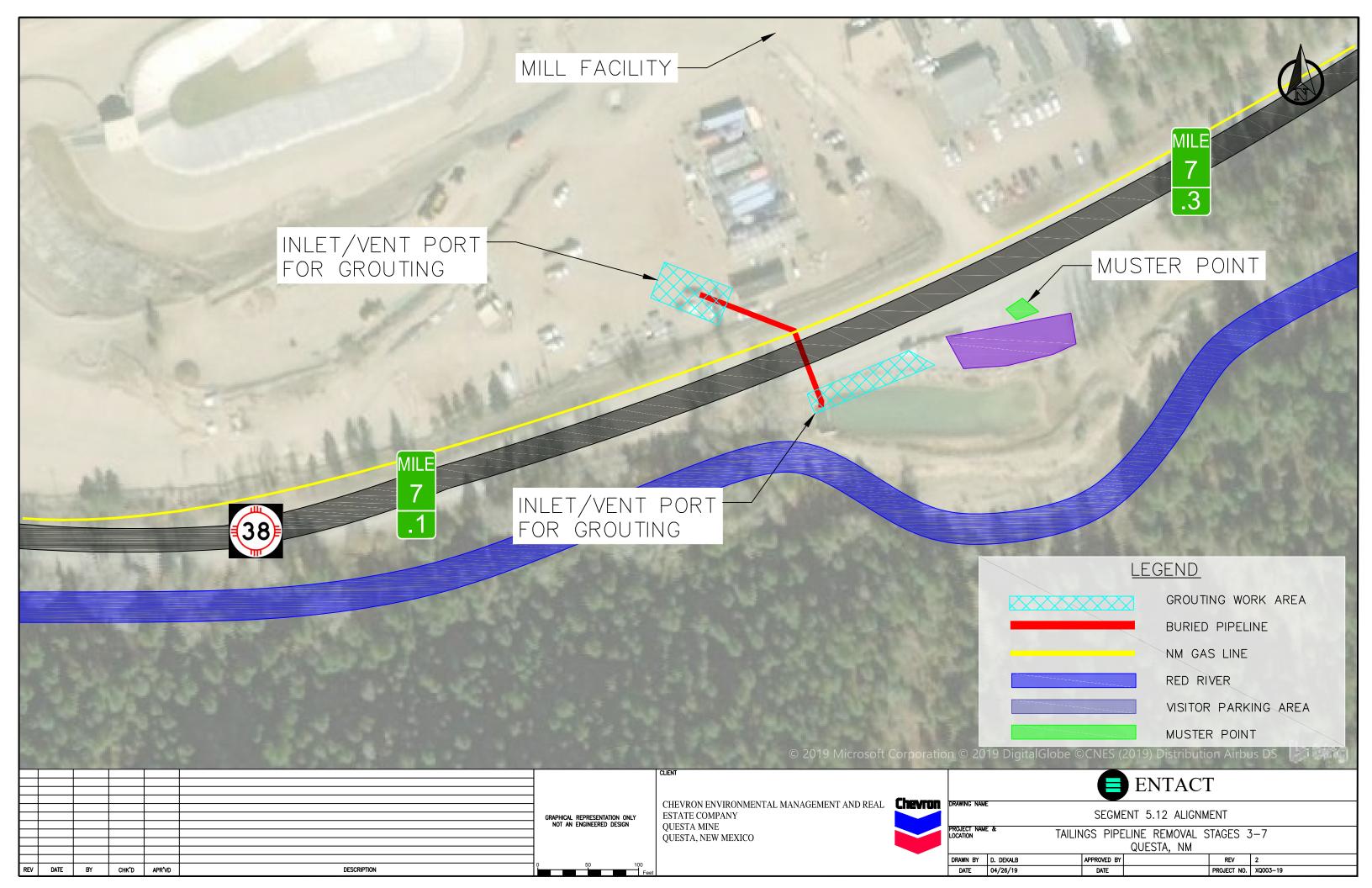












### **APPENDIX B**

ASBESTOS AND LEAD SAMPLING LAB DATA

## **TestAmerica** THE LEADER IN ENVIRONMENTAL TESTING

### ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

TestAmerica Job ID: 280-100940-1

Client Project/Site: Questa Pipeline - Lead and Asbestos

#### For:

**Trihydro Corporation** 1252 Commerce Drive Laramie, Wyoming 82070

Attn: Tony Kupilik

Authorized for release by: 9/21/2017 4:43:36 PM Michelle Johnston, Project Manager II (303)736-0110 michelle.johnston@testamericainc.com

Designee for

Donna Rydberg, Senior Project Manager (303)736-0192

donna.rydberg@testamericainc.com

----- LINKS ------

**Review your project** results through Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead and Asbestos

### **Table of Contents**

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QC Sample Results	19
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### **Definitions/Glossary**

Client: Trihydro Corporation

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

### Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

### **Case Narrative**

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Job ID: 280-100940-1

**Laboratory: TestAmerica Denver** 

**Narrative** 

### **CASE NARRATIVE**

**Client: Trihydro Corporation** 

**Project: Questa Pipeline - Lead and Asbestos** 

Report Number: 280-100940-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 09/07/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 22.2 C.

TestAmerica Denver subcontracted the Asbestos analyses to EMLab P&K. A copy of their report has been included.

#### **TOTAL METALS (ICP)**

Samples L182817 (280-100940-8), L282817 (280-100940-9), L382817 (280-100940-10), L482817 (280-100940-11), L582817 (280-100940-12), L682817 (280-100940-13), L782817 (280-100940-14), L182917 (280-100940-33), L282917 (280-100940-34), L382917 (280-100940-35), L482917 (280-100940-36), L582917 (280-100940-37), L682917 (280-100940-38), L782917 (280-100940-39), L882917 (280-100940-40), L982917 (280-100940-41), L1082917 (280-100940-42), L1182917 (280-100940-43), L183017 (280-100940-57), L283017 (280-100940-58), BL183017 (280-100940-59), BL283017 (280-100940-60), BL383017 (280-100940-61), BL483017 (280-100940-62), BL583017 (280-100940-63) and BL683017 (280-100940-64) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 09/11/2017 and analyzed on 09/12/2017 and 09/13/2017.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: There was insufficient volume to weigh out the SOP specified 1.0-1.5g for the following samples: L1182917 (280-100940-43), BL183017 (280-100940-59), BL283017 (280-100940-60), BL383017 (280-100940-61), BL483017 (280-100940-62), BL583017 (280-100940-63) and BL683017 (280-100940-64).

Samples L582817 (280-100940-12)[5X], L682817 (280-100940-13)[2X], L382917 (280-100940-35)[2X], L782917 (280-100940-39)[5X], L283017 (280-100940-58)[5X], BL183017 (280-100940-59)[10X], BL283017 (280-100940-60)[10X], BL383017 (280-100940-61)[5X], BL483017 (280-100940-62)[20X], BL583017 (280-100940-63)[5X] and BL683017 (280-100940-64)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-387084. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-387083. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

rioject/oite. Questa ripellile - Lead and Aspestos

Client Sample ID: A182817 Lab Sample ID: 280-100940-1

No Detections.

Client Sample ID: A282817 Lab Sample ID: 280-100940-2

No Detections.

Client Sample ID: A382817 Lab Sample ID: 280-100940-3

No Detections.

Client Sample ID: A482817 Lab Sample ID: 280-100940-4

No Detections.

Client Sample ID: A582817 Lab Sample ID: 280-100940-5

No Detections.

Client Sample ID: A682817 Lab Sample ID: 280-100940-6

No Detections.

Client Sample ID: A782817 Lab Sample ID: 280-100940-7

No Detections.

Client Sample ID: L182817 Lab Sample ID: 280-100940-8

Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	540		0.77	0.27	mg/Kg	1	_	6010C	Total/NA

Client Sample ID: L282817 Lab Sample ID: 280-100940-9

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	590	0.66	0.23 mg/Kg	1 6010C	Total/NA

Client Sample ID: L382817 Lab Sample ID: 280-100940-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	590		0.75	0.26	mg/Kg	1	_	6010C	 Total/NA

Client Sample ID: L482817 Lab Sample ID: 280-100940-11

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	570	0.82	0.28 mg/Kg	1 6010C	Total/NA

Client Sample ID: L582817 Lab Sample ID: 280-100940-12

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	230	4.1	1.4 mg/Kg	5 6010C	Total/NA

Client Sample ID: L682817 Lab Sample ID: 280-100940-13

This Detection Summary does not include radiochemical test results.

TestAmerica Job ID: 280-100940-1

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

Client Sample ID: L682817 (Co	ontinu	ed)				Lab Sample ID: 280-	-100940-13
Analyte		Qualifier	RL		Unit	Dil Fac D Method	Prep Type
Lead	29		1.2	0.42	mg/Kg	2	Total/NA
Client Sample ID: L782817						Lab Sample ID: 280-	-100940-14
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D Method	Prep Type
Lead	550		0.83	0.29	mg/Kg	1 6010C	Total/NA
Client Sample ID: INS182817						Lab Sample ID: 280-	-100940-15
No Detections.							
Client Sample ID: INS282817						Lab Sample ID: 280-	-100940-16
No Detections.							
Client Sample ID: PL182817						Lab Sample ID: 280-	-100940-17
No Detections.							
Client Sample ID: G182817						Lab Sample ID: 280-	-100940-18
No Detections.							
Client Sample ID: G282817						Lab Sample ID: 280-	-100940-19
No Detections.							
Client Sample ID: G382817						Lab Sample ID: 280-	-100940-20
No Detections.							
Client Sample ID: G482817						Lab Sample ID: 280-	-100940-21
No Detections.							
Client Sample ID: A182917						Lab Sample ID: 280-	-100940-22
No Detections.							
Client Sample ID: A282917						Lab Sample ID: 280-	-100940-23
No Detections.							
Client Sample ID: A382917						Lab Sample ID: 280-	-100940-24
No Detections.							
Client Sample ID: A482917						Lab Sample ID: 280-	-100940-25
No Detections.							

This Detection Summary does not include radiochemical test results.

TestAmerica Job ID: 280-100940-1

Client Sample ID: A582917

Lab Sample ID: 280-100940-26

No Detections.

Lab Sample ID: 280-100940-27 Client Sample ID: A682917

No Detections.

Client Sample ID: A782917 Lab Sample ID: 280-100940-28

No Detections.

Client Sample ID: A882917 Lab Sample ID: 280-100940-29

No Detections.

Client Sample ID: A982917 Lab Sample ID: 280-100940-30

No Detections.

Client Sample ID: A1082917 Lab Sample ID: 280-100940-31

No Detections.

Client Sample ID: A1182917 Lab Sample ID: 280-100940-32

No Detections.

Client Sample ID: L182917 Lab Sample ID: 280-100940-33

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	670	0.73	0.25 mg/Kg	1 6010C	Total/NA

Client Sample ID: L282917 Lab Sample ID: 280-100940-34

Analyte	Result Qualifie	r RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Lead	500	0.87	0.30	mg/Kg	1	_	6010C	 Total/NA	

Client Sample ID: L382917 Lab Sample ID: 280-100940-35

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	480	1.5	0.53 mg/Kg		Total/NA

Client Sample ID: L482917 Lab Sample ID: 280-100940-36

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	450	0.73	0.25 mg/Kg	1 6010C	Total/NA

Client Sample ID: L582917 Lab Sample ID: 280-100940-37

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	280	0.79	0.27 mg/Kg	1 6010C	Total/NA

Client Sample ID: L682917 Lab Sample ID: 280-100940-38

This Detection Summary does not include radiochemical test results.

5

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L68	2917 (Continued)			Lab Sample ID: 28	80-100940-38
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	120	0.77	0.27 mg/Kg	1	Total/NA

Client Sample ID: I 782917	Lah Sample ID: 280-100940-39

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	810	4.3	1.5 mg/Kg	5 6010C	Total/NA

Client Sample ID: L882917	Lab Sample ID: 280-100940-40

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	32	0.86	0.30 mg/Kg	1 6010C	Total/NA

Client Sample ID: L982917	Lab Sample ID: 280-100940-41

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	430	0.78	0.27 mg/Kg	1 6010C	Total/NA

Client Sample ID: L1082917	Lab Sample ID: 280-100940-42

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Lead	460	0.72	0.25 mg/Kg		6010C	Total/NA

Client Sample ID: L1182917	Lab Sample ID: 280-100940-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	290		1.1	0.38	mg/Kg	1	_	6010C	Total/NA

Client Sample ID: G182917 Lab	Sample ID: 280-100940-44
-------------------------------	--------------------------

No Detections.

Client Sample ID: G282917	Lab Sample ID: 280-100940-45

No Detections.

Client Sample ID: G382917	Lab Sample ID: 280-100940-46

No Detections.

Client Sample ID: G482917	Lab Sample ID: 280-100940-47
---------------------------	------------------------------

No Detections.

Client Sample ID: PL182917	Lab Sample ID: 280-100940-48

No Detections.

Client Sample ID: A183017	Lab Sample ID: 280-100940-49

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

Client Sample ID: A283017 Lab Sample ID: 280-100940-50

No Detections.

Lab Sample ID: 280-100940-51 Client Sample ID: BA183017

No Detections.

Client Sample ID: BA283017 Lab Sample ID: 280-100940-52

No Detections.

Client Sample ID: BA383017 Lab Sample ID: 280-100940-53

No Detections.

Client Sample ID: BA483017 Lab Sample ID: 280-100940-54

No Detections.

Client Sample ID: BA583017 Lab Sample ID: 280-100940-55

No Detections.

Client Sample ID: BA683017 Lab Sample ID: 280-100940-56

No Detections.

Client Sample ID: L183017 Lab Sample ID: 280-100940-57

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	330	0.99	0.34 mg/Kg	1 6010C	Total/NA

Client Sample ID: L283017 Lab Sample ID: 280-100940-58

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	380	5.0	1.7 mg/Kg	5 6010C	Total/NA

Client Sample ID: BL183017 Lab Sample ID: 280-100940-59

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Lead	390	9.3	3.2 mg/Kg	10	6010C	Total/NA

Client Sample ID: BL283017 Lab Sample ID: 280-100940-60

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	340	8.3	2.9 mg/Kg		Total/NA

Client Sample ID: BL383017 Lab Sample ID: 280-100940-61

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Lead	250	4.3	1.5 mg/Kg	5 6010C	Total/NA

Client Sample ID: BL483017 Lab Sample ID: 280-100940-62

This Detection Summary does not include radiochemical test results.

TestAmerica Job ID: 280-100940-1

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

Client Sample ID: BL483017 (Continued)				Lab Sample ID: 280-100940-62			
Analyte		Qualifier	RL		Unit	Dil Fac D Method	Prep Type
Lead	630		15	5.3	mg/Kg		Total/NA
Client Sample ID: BL583017	1					Lab Sample ID: 280	)-100940-63
Analyte		Qualifier	RL		Unit	Dil Fac D Method	Prep Type
Lead	240		5.5	1.9	mg/Kg	56010C	Total/NA
Client Sample ID: BL683017	,					Lab Sample ID: 280	)-100940-64
Analyte	Result	Qualifier	RL		Unit	Dil Fac D Method	Prep Type
Lead	5600		5.6	1.9	mg/Kg	5 6010C	Total/NA
Client Sample ID: INS18301	7					Lab Sample ID: 280	)-100940-65
No Detections.							
Client Sample ID: INS28301	7					Lab Sample ID: 280	)-100940-66
No Detections.							
Client Sample ID: VG183017	7					Lab Sample ID: 280	)-100940-67
No Detections.							
Client Sample ID: VG283017	7					Lab Sample ID: 280	)-100940-68
No Detections.							
Client Sample ID: VG383017	7					Lab Sample ID: 280	)-100940-69
No Detections.							
Client Sample ID: PW18301	7					Lab Sample ID: 280	)-100940-70
No Detections.							
Client Sample ID: PW28301	7					Lab Sample ID: 280	)-100940-71
No Detections.							
Client Sample ID: PW38301	7					Lab Sample ID: 280	)-100940-72
No Detections.							
Client Sample ID: PW48301	7					Lab Sample ID: 280	)-100940-73
No Detections.							

This Detection Summary does not include radiochemical test results.

## **Method Summary**

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL DEN
Asbestos - PLM by EPA 600/R-93/116	General Sub Contract Method	NONE	

### **Protocol References:**

(pric

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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## **Sample Summary**

Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Lab Sample ID  Client Sample ID		Matrix	Collected	Received
280-100940-1	A182817	Solid	08/28/17 13:15	09/07/17 09:15
280-100940-2	A282817	Solid	08/28/17 13:54	09/07/17 09:15
280-100940-3	A382817	Solid	08/28/17 14:20	09/07/17 09:15
280-100940-4	A482817	Solid	08/28/17 14:40	09/07/17 09:15
280-100940-5	A582817	Solid	08/28/17 15:10	09/07/17 09:15
280-100940-6	A682817	Solid	08/28/17 15:35	09/07/17 09:15
280-100940-7	A782817	Solid	08/28/17 16:15	09/07/17 09:15
280-100940-8	L182817	Solid	08/28/17 13:15	09/07/17 09:15
280-100940-9	L282817	Solid	08/28/17 13:54	09/07/17 09:15
280-100940-10	L382817	Solid	08/28/17 14:20	09/07/17 09:15
280-100940-11	L482817	Solid	08/28/17 14:40	09/07/17 09:15
280-100940-12	L582817	Solid	08/28/17 14:50	09/07/17 09:15
280-100940-13	L682817	Solid		09/07/17 09:15
280-100940-14	L782817	Solid		09/07/17 09:15
280-100940-15	INS182817	Solid		09/07/17 09:15
280-100940-16	INS282817	Solid		09/07/17 09:15
280-100940-17	PL182817	Solid		09/07/17 09:15
280-100940-18	G182817	Solid		09/07/17 09:15
280-100940-19	G282817	Solid		09/07/17 09:15
280-100940-20	G382817	Solid		09/07/17 09:15
280-100940-21	G362617 G482817	Solid		09/07/17 09:15
280-100940-21	A182917	Solid		09/07/17 09:15
280-100940-23	A282917	Solid		09/07/17 09:15
280-100940-24	A382917	Solid		09/07/17 09:15
280-100940-25	A482917	Solid		09/07/17 09:15
280-100940-26	A582917	Solid		09/07/17 09:15
280-100940-27	A682917	Solid		09/07/17 09:15
280-100940-28	A782917	Solid		09/07/17 09:15
280-100940-29	A882917	Solid		09/07/17 09:15
280-100940-30	A982917	Solid		09/07/17 09:15
280-100940-31	A1082917	Solid		09/07/17 09:15
280-100940-32	A1182917	Solid	08/29/17 16:40	09/07/17 09:15
280-100940-33	L182917	Solid	08/29/17 08:35	09/07/17 09:15
280-100940-34	L282917	Solid	08/29/17 09:10	09/07/17 09:15
280-100940-35	L382917	Solid	08/29/17 09:45	09/07/17 09:15
280-100940-36	L482917	Solid	08/29/17 10:05	09/07/17 09:15
280-100940-37	L582917	Solid	08/29/17 10:25	09/07/17 09:15
280-100940-38	L682917	Solid	08/29/17 11:05	09/07/17 09:15
280-100940-39	L782917	Solid	08/29/17 11:40	09/07/17 09:15
280-100940-40	L882917	Solid	08/29/17 11:55	09/07/17 09:15
280-100940-41	L982917	Solid	08/29/17 12:30	09/07/17 09:15
280-100940-42	L1082917	Solid	08/29/17 15:10	09/07/17 09:15
280-100940-43	L1182917	Solid	08/29/17 16:40	09/07/17 09:15
280-100940-44	G182917	Solid	08/29/17 09:20	09/07/17 09:15
280-100940-45	G282917	Solid	08/29/17 09:25	
280-100940-46	G382917	Solid	08/29/17 10:20	
280-100940-47	G482917	Solid	08/29/17 10:25	
280-100940-48	PL182917	Solid	08/29/17 10:30	
280-100940-49	A183017	Solid	08/30/17 09:40	
280-100940-50	A283017	Solid	08/30/17 11:10	
280-100940-51	BA183017	Solid	08/30/17 11:15	
			08/30/17 11:13	
280-100940-52	BA283017	Solid	00/30/17 11.20	03/01/11 09.15

TestAmerica Denver

## **Sample Summary**

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
280-100940-54	BA483017	Solid	08/30/17 11:30 09/07/17 09:15
280-100940-55	BA583017	Solid	08/30/17 11:40 09/07/17 09:15
280-100940-56	BA683017	Solid	08/30/17 11:50 09/07/17 09:15
280-100940-57	L183017	Solid	08/30/17 09:40 09/07/17 09:15
280-100940-58	L283017	Solid	08/30/17 11:10 09/07/17 09:15
280-100940-59	BL183017	Solid	08/30/17 11:15 09/07/17 09:15
280-100940-60	BL283017	Solid	08/30/17 11:20 09/07/17 09:15
280-100940-61	BL383017	Solid	08/30/17 11:25 09/07/17 09:15
280-100940-62	BL483017	Solid	08/30/17 11:30 09/07/17 09:15
280-100940-63	BL583017	Solid	08/30/17 11:40 09/07/17 09:15
280-100940-64	BL683017	Solid	08/30/17 11:50 09/07/17 09:15
280-100940-65	INS183017	Solid	08/30/17 09:10 09/07/17 09:15
280-100940-66	INS283017	Solid	08/30/17 09:15 09/07/17 09:15
280-100940-67	VG183017	Solid	08/30/17 09:20 09/07/17 09:15
280-100940-68	VG283017	Solid	08/30/17 09:30 09/07/17 09:15
280-100940-69	VG383017	Solid	08/30/17 09:40 09/07/17 09:15
280-100940-70	PW183017	Solid	08/30/17 15:10 09/07/17 09:15
280-100940-71	PW283017	Solid	08/30/17 15:20 09/07/17 09:15
280-100940-72	PW383017	Solid	08/30/17 15:30 09/07/17 09:15
280-100940-73	PW483017	Solid	08/30/17 15:40 09/07/17 09:15

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### **Client Sample Results**

Client: Trihydro Corporation TestAmerica Job ID: 280-100940-1

Project/Site: Questa Pipeline - Lead and Asbestos

Method:	6010C	- Metals	(ICP)
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Client Sample ID: L182817	Lab Sample ID: 280-100940-8
Date Collected: 08/28/17 13:15	Matrix: Solid
Date Received: 09/07/17 09:15	

te Received: 09/07/17 09:15

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	540	0.77	0.27	mg/Kg	_	09/11/17 13:30	09/12/17 02:35	1

Client Sample ID: L282817 Lab Sample ID: 280-100940-9 Date Collected: 08/28/17 13:54 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	590	0.66	0.23	mg/Kg		09/11/17 13:30	09/12/17 02:37	1

Client Sample ID: L382817 Lab Sample ID: 280-100940-10 **Matrix: Solid** 

Date Collected: 08/28/17 14:20 Date Received: 09/07/17 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	)	Prepared	Analyzed	Dil Fac
Lead	590		0.75	0.26	mg/Kg		09	9/11/17 13:30	09/12/17 02:40	1

Client Sample ID: L482817 Lab Sample ID: 280-100940-11 Date Collected: 08/28/17 14:40 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	570	0.82	0.28 mg/Kg		09/11/17 13:30	09/12/17 02:42	1

Client Sample ID: L582817 Lab Sample ID: 280-100940-12 Date Collected: 08/28/17 14:50 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	230	4.1	1.4 mg/Kg		09/11/17 13:30	09/13/17 07:21	5

Client Sample ID: L682817 Lab Sample ID: 280-100940-13 Date Collected: 08/28/17 15:35 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	29	1.2	0.42 mg/Kg		09/11/17 13:30	09/13/17 07:24	2

Client Sample ID: L782817 Lab Sample ID: 280-100940-14 Date Collected: 08/28/17 16:15 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Analyte	Result C	Qualifier RI	. MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	550	0.83	0.29	mg/Kg	_	09/11/17 13:30	09/12/17 03:00	1

Client Sample ID: L182917 Lab Sample ID: 280-100940-33 Date Collected: 08/29/17 08:35 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Date Received. 03/07/17 03.13							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	670	0.73	0.25 mg/Kg		09/11/17 13:30	09/12/17 03:03	1

Client Sample ID: L282917 Lab Sample ID: 280-100940-34 Date Collected: 08/29/17 09:10 **Matrix: Solid** 

Date Received: 09/07/17 09:15										
Analyte	Result	Qualifier	RL	MDL	Unit	D	P	repared	Analyzed	Dil Fac
Lead	500		0.87	0.30	mg/Kg		09/1	1/17 13:30	09/12/17 03:05	1

### **Client Sample Results**

Client: Trihydro Corporation TestAmerica Job ID: 280-100940-1

Project/Site: Questa Pipeline - Lead and Asbestos

Method: 6010C - Metals (ICP)

Client Sample ID: L382917	Lab Sample ID: 280-100940-35
Date Collected: 08/29/17 09:45	Matrix: Solid

Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	480	1.5	0.53 mg/Kg		09/11/17 13:30	09/13/17 07:44	2

Client Sample ID: L482917 Lab Sample ID: 280-100940-36

Date Collected: 08/29/17 10:05 Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL	Unit	D	)	Prepared	Analyzed	Dil Fac
Lead	450	0.73	0.25	mg/Kg		(	09/11/17 13:30	09/12/17 03:10	1

Client Sample ID: L582917 Lab Sample ID: 280-100940-37 **Matrix: Solid** 

Date Collected: 08/29/17 10:25 Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	280	0.79	0.27	mg/Kg		09/11/17 13:30	09/12/17 03:12	1

Client Sample ID: L682917 Lab Sample ID: 280-100940-38 Date Collected: 08/29/17 11:05 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Date Neceived. 03/01/11 03.13									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		0.77	0.27	mg/Kg		09/11/17 13:30	09/12/17 03:15	1

Client Sample ID: L782917 Lab Sample ID: 280-100940-39 Date Collected: 08/29/17 11:40 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	810	4.3	1.5 mg/Kg		09/11/17 13:30	09/13/17 14:37	5

Client Sample ID: L882917 Lab Sample ID: 280-100940-40

Date Collected: 08/29/17 11:55 Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	32	0.86	0.30 mg/Kg		09/11/17 13:30	09/12/17 03:43	1

Client Sample ID: L982917 Lab Sample ID: 280-100940-41 **Matrix: Solid** 

Date Collected: 08/29/17 12:30

Date Received: 09/07/17 09:15									
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	430	<del></del>	0.78	0.27	mg/Kg		09/11/17 13:30	09/12/17 03:45	1

Client Sample ID: L1082917 Lab Sample ID: 280-100940-42 Date Collected: 08/29/17 15:10 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Date Received. 03/01/11 03.13									
Analyte	Result Q	ualifier RI	. MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	460	0.7	0.25	mg/Kg	_	09/11/17 13:30	09/12/17 03:48	1	

Client Sample ID: L1182917 Lab Sample ID: 280-100940-43 **Matrix: Solid** 

Date Collected: 08/29/17 16:40 Date Received: 09/07/17 09:15

Date Received. 03/07/17 03.13						
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Lead	290	1.1	0.38 mg/Kg	09/11/17 13:30	09/12/17 03:50	1

**Matrix: Solid** 

**Matrix: Solid** 

### **Client Sample Results**

Client: Trihydro Corporation TestAmerica Job ID: 280-100940-1

Project/Site: Questa Pipeline - Lead and Asbestos

Method: 6010C - Metals (ICP)

Client Sample ID: L183017	Lab Sample ID: 280-100940-57
Date Collected: 08/30/17 09:40	Matrix: Solid

Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	330	0.99	0.34 mg/Kg		09/11/17 13:30	09/12/17 03:53	

Client Sample ID: L283017

Lab Sample ID: 280-100940-58

Date Collected: 08/30/17 11:10 Date Received: 09/07/17 09:15

 Analyte
 Result Lead
 Qualifier
 RL Store
 MDL Unit mg/Kg
 D mg/Kg
 Prepared D9/11/17 13:30
 Analyzed Malyzed Dil Fac D9/13/17 06:16
 D mg/Kg
 90/11/17 13:30
 09/13/17 06:16
 5

Date Collected: 08/30/17 11:15 Date Received: 09/07/17 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	390		9.3	3.2	mg/Kg		09/11/17 13:30	09/13/17 06:28	10

Date Received: 09/07/17 09:15

 Analyte
 Result Lead
 Qualifier
 RL 8.3
 MDL mg/Kg
 Unit Depth mg/Kg
 D mg/Kg
 Prepared prepared poly11/17 13:30
 Analyzed poly13/17 06:31
 Dil Fac poly mg/Kg

Client Sample ID: BL383017 Lab Sample ID: 280-100940-61

Date Collected: 08/30/17 11:25
Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	250	4.3	1.5 mg/Kg		09/11/17 13:30	09/13/17 06:33	5

Client Sample ID: BL483017 Lab Sample ID: 280-100940-62
Date Collected: 08/30/17 11:30 Matrix: Solid

Date Collected: 08/30/17 11:30 Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	630	15	5.3 mg/Kg		09/11/17 13:30	09/13/17 08:09	20

Client Sample ID: BL583017 Lab Sample ID: 280-100940-63

Date Collected: 08/30/17 11:40 Matrix: Solid

Date Collected: 08/30/17 11:40 Date Received: 09/07/17 09:15

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	240	5.5	1.9 mg/Kg		09/11/17 13:30	09/13/17 06:38	5

Client Sample ID: BL683017 Lab Sample ID: 280-100940-64

Date Collected: 08/30/17 11:50
Date Received: 09/07/17 09:15

Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5600	5.6	1.9	mg/Kg		09/11/17 13:30	09/13/17 06:46	5

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

## **QC Association Summary**

Client: Trihydro Corporation

TestAmerica Job ID: 280-100940-1 Project/Site: Questa Pipeline - Lead and Asbestos

### **Metals**

**Prep Batch: 387083** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-39	L782917	Total/NA	Solid	3050B	
280-100940-40	L882917	Total/NA	Solid	3050B	
280-100940-41	L982917	Total/NA	Solid	3050B	
280-100940-42	L1082917	Total/NA	Solid	3050B	
280-100940-43	L1182917	Total/NA	Solid	3050B	
280-100940-57	L183017	Total/NA	Solid	3050B	
280-100940-58	L283017	Total/NA	Solid	3050B	
280-100940-59	BL183017	Total/NA	Solid	3050B	
280-100940-60	BL283017	Total/NA	Solid	3050B	
280-100940-61	BL383017	Total/NA	Solid	3050B	
280-100940-62	BL483017	Total/NA	Solid	3050B	
280-100940-63	BL583017	Total/NA	Solid	3050B	
280-100940-64	BL683017	Total/NA	Solid	3050B	
MB 280-387083/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-387083/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 280-387083/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

### **Prep Batch: 387084**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-8	L182817	Total/NA	Solid	3050B	
280-100940-9	L282817	Total/NA	Solid	3050B	
280-100940-10	L382817	Total/NA	Solid	3050B	
280-100940-11	L482817	Total/NA	Solid	3050B	
280-100940-12	L582817	Total/NA	Solid	3050B	
280-100940-13	L682817	Total/NA	Solid	3050B	
280-100940-14	L782817	Total/NA	Solid	3050B	
280-100940-33	L182917	Total/NA	Solid	3050B	
280-100940-34	L282917	Total/NA	Solid	3050B	
280-100940-35	L382917	Total/NA	Solid	3050B	
280-100940-36	L482917	Total/NA	Solid	3050B	
280-100940-37	L582917	Total/NA	Solid	3050B	
280-100940-38	L682917	Total/NA	Solid	3050B	
MB 280-387084/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-387084/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 280-387084/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

### **Analysis Batch: 387317**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-8	L182817	Total/NA	Solid	6010C	387084
280-100940-9	L282817	Total/NA	Solid	6010C	387084
280-100940-10	L382817	Total/NA	Solid	6010C	387084
280-100940-11	L482817	Total/NA	Solid	6010C	387084
280-100940-14	L782817	Total/NA	Solid	6010C	387084
280-100940-33	L182917	Total/NA	Solid	6010C	387084
280-100940-34	L282917	Total/NA	Solid	6010C	387084
280-100940-36	L482917	Total/NA	Solid	6010C	387084
280-100940-37	L582917	Total/NA	Solid	6010C	387084
280-100940-38	L682917	Total/NA	Solid	6010C	387084
280-100940-40	L882917	Total/NA	Solid	6010C	387083
280-100940-41	L982917	Total/NA	Solid	6010C	387083
280-100940-42	L1082917	Total/NA	Solid	6010C	387083

TestAmerica Denver

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## **QC Association Summary**

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

## **Metals (Continued)**

### **Analysis Batch: 387317 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-43	L1182917	Total/NA	Solid	6010C	387083
280-100940-57	L183017	Total/NA	Solid	6010C	387083
MB 280-387083/1-A	Method Blank	Total/NA	Solid	6010C	387083
MB 280-387084/1-A	Method Blank	Total/NA	Solid	6010C	387084
LCS 280-387083/2-A	Lab Control Sample	Total/NA	Solid	6010C	387083
LCS 280-387084/2-A	Lab Control Sample	Total/NA	Solid	6010C	387084
LCSD 280-387083/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	387083
LCSD 280-387084/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	387084

### **Analysis Batch: 387473**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-12	L582817	Total/NA	Solid	6010C	387084
280-100940-13	L682817	Total/NA	Solid	6010C	387084
280-100940-35	L382917	Total/NA	Solid	6010C	387084
280-100940-58	L283017	Total/NA	Solid	6010C	387083
280-100940-59	BL183017	Total/NA	Solid	6010C	387083
280-100940-60	BL283017	Total/NA	Solid	6010C	387083
280-100940-61	BL383017	Total/NA	Solid	6010C	387083
280-100940-62	BL483017	Total/NA	Solid	6010C	387083
280-100940-63	BL583017	Total/NA	Solid	6010C	387083
280-100940-64	BL683017	Total/NA	Solid	6010C	387083

### **Analysis Batch: 387616**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-100940-39	L782917	Total/NA	Solid	6010C	387083

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TestAmerica Job ID: 280-100940-1

**Prep Batch: 387083** 

Prep Batch: 387084

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%Rec.

Client: Trihydro Corporation Project/Site: Questa Pipeline - Lead and Asbestos

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-387083/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 387317** 

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Prepared** 0.90 09/11/17 13:30 09/12/17 03:33 Lead  $\overline{\mathsf{ND}}$ 0.31 mg/Kg

Lab Sample ID: LCS 280-387083/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 387317 Prep Batch: 387083** 

Spike LCS LCS

Added Limits Analyte Result Qualifier Unit D %Rec 86 - 110 Lead 50.0 50.2 mg/Kg 100

Lab Sample ID: LCSD 280-387083/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 387317** 

Prep Batch: 387083 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Lead 50.0 50.4 mg/Kg 101 86 - 110

Client Sample ID: Method Blank Lab Sample ID: MB 280-387084/1-A Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 387317** 

MR MR

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Lead  $\overline{\mathsf{ND}}$ 0.90 0.31 mg/Kg 09/11/17 13:30 09/12/17 02:25

Lab Sample ID: LCS 280-387084/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 387317** Prep Batch: 387084 Spike LCS LCS %Rec.

Added Analyte Result Qualifier Unit D %Rec Limits 50.0 50.7 86 - 110 Lead mg/Kg 101

Lab Sample ID: LCSD 280-387084/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA **Matrix: Solid** 

**Prep Batch: 387084 Analysis Batch: 387317** Spike LCSD LCSD %Rec. **RPD** 

Added Result Qualifier Unit Limits Limit Analyte D %Rec **RPD** 50.0 49.9 Lead mg/Kg 100 86 - 110 20

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L182817 Lab Sample ID: 280-100940-8

Date Collected: 08/28/17 13:15 Matrix: Solid Date Received: 09/07/17 09:15

Batch Dil Initial Batch Batch Final Prepared Method Factor Amount Number **Prep Type** Type Run Amount or Analyzed Analyst Lab Total/NA Prep 3050B 1.165 g 100 mL 387084 09/11/17 13:30 SEJ TAL DEN Total/NA Analysis 6010C 387317 09/12/17 02:35 CML TAL DEN 1

Client Sample ID: L282817 Lab Sample ID: 280-100940-9

Date Collected: 08/28/17 13:54 **Matrix: Solid** 

Date Received: 09/07/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.371 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 02:37	CML	TAL DEN

Client Sample ID: L382817 Lab Sample ID: 280-100940-10 **Matrix: Solid** 

Date Collected: 08/28/17 14:20 Date Received: 09/07/17 09:15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 3050B 1.193 g 100 mL 387084 09/11/17 13:30 SEJ TAL DEN Total/NA Analysis 6010C 387317 09/12/17 02:40 CML TAL DEN 1

Client Sample ID: L482817 Lab Sample ID: 280-100940-11

Date Collected: 08/28/17 14:40 **Matrix: Solid** 

Date Received: 09/07/17 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.101 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 02:42	CML	TAL DEN

Client Sample ID: L582817 Lab Sample ID: 280-100940-12 Matrix: Solid

Date Collected: 08/28/17 14:50

Date Received: 09/07/17 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.096 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 07:21	CRR	TAL DEN

Client Sample ID: L682817 Lab Sample ID: 280-100940-13

Date Collected: 08/28/17 15:35

Date Received: 09/07/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.491 g	100 mL	387084	09/11/17 13:30		TAL DEN
Total/NA	Analysis	6010C		2			387473	09/13/17 07:24	CRR	TAL DEN

**Matrix: Solid** 

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L782817

Date Collected: 08/28/17 16:15 Date Received: 09/07/17 09:15 Lab Sample ID: 280-100940-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.078 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:00	CML	TAL DEN

Client Sample ID: L182917 Lab Sample ID: 280-100940-33

Date Collected: 08/29/17 08:35
Date Received: 09/07/17 09:15

Matrix: Solid

Dil Batch Batch Initial Final **Batch** Prepared **Prep Type** Type Method Run **Factor Amount Amount** Number or Analyzed **Analyst** Lab Total/NA Prep 3050B 1.226 q 100 mL 387084 09/11/17 13:30 SEJ TAL DEN Total/NA Analysis 6010C 387317 09/12/17 03:03 CML TAL DEN 1

Client Sample ID: L282917 Lab Sample ID: 280-100940-34

Date Collected: 08/29/17 09:10 Eas Campio 15: 255 165545 54

Date Received: 09/07/17 09:10 Matrix: Solid

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 3050B 1.033 g 100 mL 387084 09/11/17 13:30 SEJ TAL DEN Prep Total/NA Analysis 6010C 387317 09/12/17 03:05 CML TAL DEN 1

Client Sample ID: L382917 Lab Sample ID: 280-100940-35

Date Collected: 08/29/17 09:45 Date Received: 09/07/17 09:15 Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed **Analyst** Lab Total/NA Prep 3050B 1.171 g 100 mL 387084 09/11/17 13:30 SEJ TAL DEN Total/NA Analysis 6010C 2 387473 09/13/17 07:44 CRR TAL DEN

Client Sample ID: L482917 Lab Sample ID: 280-100940-36

Date Collected: 08/29/17 10:05 Matrix: Solid

Date Received: 09/07/17 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.227 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:10	CML	TAL DEN

Client Sample ID: L582917 Lab Sample ID: 280-100940-37

Date Collected: 08/29/17 10:25 Matrix: Solid

Date Received: 09/07/17 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.134 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:12	CML	TAL DEN

TestAmerica Denver

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L682917

Date Collected: 08/29/17 11:05 Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-38

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.164 g	100 mL	387084	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:15	CML	TAL DEN

Lab Sample ID: 280-100940-39 Client Sample ID: L782917

Date Collected: 08/29/17 11:40

Date Received: 09/07/17 09:15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.049 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387616	09/13/17 14:37	CML	TAL DEN

Client Sample ID: L882917 Lab Sample ID: 280-100940-40 **Matrix: Solid** 

Date Collected: 08/29/17 11:55

Date Received: 09/07/17 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.044 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:43	CML	TAL DEN

Lab Sample ID: 280-100940-41 Client Sample ID: L982917 **Matrix: Solid** 

Date Collected: 08/29/17 12:30

Date Received: 09/07/17 09:15

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.160 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:45	CML	TAL DEN

Lab Sample ID: 280-100940-42 Client Sample ID: L1082917

Date Collected: 08/29/17 15:10

Date Received: 09/07/17 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.257 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:48	CML	TAL DEN

Lab Sample ID: 280-100940-43 Client Sample ID: L1182917

Date Collected: 08/29/17 16:40

Date Received: 09/07/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.825 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:50	CML	TAL DEN

TestAmerica Denver

Matrix: Solid

**Matrix: Solid** 

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Client Sample ID: L183017

Date Collected: 08/30/17 09:40 Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.905 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		1			387317	09/12/17 03:53	CML	TAL DEN

Lab Sample ID: 280-100940-58 Client Sample ID: L283017

Date Collected: 08/30/17 11:10 **Matrix: Solid** 

Date Received: 09/07/17 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.901 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:16	CRR	TAL DEN

Client Sample ID: BL183017 Lab Sample ID: 280-100940-59

Date Collected: 08/30/17 11:15 **Matrix: Solid** 

Date Received: 09/07/17 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.482 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		10			387473	09/13/17 06:28	CRR	TAL DEN

Client Sample ID: BL283017 Lab Sample ID: 280-100940-60 **Matrix: Solid** 

Date Collected: 08/30/17 11:20 Date Received: 09/07/17 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.541 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		10			387473	09/13/17 06:31	CRR	TAL DEN

Lab Sample ID: 280-100940-61 Client Sample ID: BL383017

Date Collected: 08/30/17 11:25

Date Received: 09/07/17 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.526 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:33	CRR	TAL DEN

Lab Sample ID: 280-100940-62 Client Sample ID: BL483017

Date Collected: 08/30/17 11:30

Date Received: 09/07/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.588 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		20			387473	09/13/17 08:09	CRR	TAL DEN

TestAmerica Denver

**Matrix: Solid** 

**Matrix: Solid** 

Client: Trihydro Corporation

Project/Site: Questa Pipeline - Lead and Asbestos

TestAmerica Job ID: 280-100940-1

Lab Sample ID: 280-100940-63

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Matrix: Solid

Date Collected: 08/30/17 11:40 Date Received: 09/07/17 09:15

Client Sample ID: BL583017

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.814 g	100 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:38	CRR	TAL DEN

Client Sample ID: BL683017 Lab Sample ID: 280-100940-64

Date Collected: 08/30/17 11:50 Matrix: Solid

Date Received: 09/07/17 09:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.402 g	50 mL	387083	09/11/17 13:30	SEJ	TAL DEN
Total/NA	Analysis	6010C		5			387473	09/13/17 06:46	CRR	TAL DEN

**Laboratory References:** 

= EMLab P&K - Denver, 4955 Yarrow Street, Arvada, CO 80002

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Report for:

Donna Rydberg TestAmerica-Denver 4955 Yarrow Street Arvada, CO 80002

Regarding: Project: 280-100940-1; Questa Pipeline- Lead and Asbestos

EMĹ ID: 1790994

Approved by:

Dates of Analysis: Asbestos PLM: 09-19-2017

Approved Signatory Noah Lazarte

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Total Samples Submitted:** 47

**Total Samples Analyzed:** 47

Lab ID-Version 1: 8373424-1

Lab ID-Version 1: 8373425-1

Lab ID-Version 1: 8373426-1

Lab ID-Version 1: 8373427-1

Total Samples with Layer Asbestos Content > 1%: 4

Location: 280-100940-1, A182817

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-2, A282817

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-3, A382817

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-4, A482817

	•
Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

 $\ddagger$  A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC

EMLab ID: 1790994, Page 2 of 13

Lab ID-Version 1: 8373430-1

4955 Yarrow Street, Arvada, CO 80002

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-5, A582817 Lab ID-Version 1: 8373428-1

	•
Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-6, A682817	Lab ID-Version‡: 8373429-1
Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-7, A782817

20040000 200 100 10 7,11702017	•
Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-15, INS182817	Lab ID-Version‡: 8373431-1
Sample Layers	Asbestos Content
Yellow Insulation	ND
Composite Non-Asbestos Content:	90% Glass Fibers
_	7% Cellulose
Sample Composite Homogeneity:	Good

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Location: 280-100940-16, INS282817**Lab ID-Version‡: 8373432-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-17, PL182817

Lab ID-Version‡: 8373433-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-18, G182817

Lab ID-Version :: 8373434-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-19, G282817

Lab ID-Version‡: 8373435-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity: Good	

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Lab ID-Version 1: 8373438-1

4955 Yarrow Street, Arvada, CO 80002

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-20, G382817 Lab ID-Version 1: 8373436-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-21, G482817

Lab ID-Version 1: 8373437-1 Sample Layers **Asbestos Content** Brown Non-Fibrous Material ND Sample Composite Homogeneity: Good

Location: 280-100940-22, A182817

Sample Layers **Asbestos Content Brown Compound** ND **Sample Composite Homogeneity:** Good

Location: 280-100940-23, A282817	Lab ID-Version‡: 8373439-1
Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

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EMLab ID: 1790994, Page 5 of 13

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Location: 280-100940-24, A382817**Lab ID-Version‡: 8373440-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

**Location: 280-100940-25, A482817**Lab ID-Version‡: 8373441-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

**Location: 280-100940-26, A582817**Lab ID-Version‡: 8373442-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

**Location: 280-100940-27, A682817**Lab ID-Version‡: 8373443-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

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EMLab P&K, LLC EMLab ID: 1790994, Page 6 of 13

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Location: 280-100940-28, A782817**Lab ID-Version‡: 8373444-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

**Location: 280-100940-29, A882817**Lab ID-Version‡: 8373445-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

**Location: 280-100940-30, A982817**Lab ID-Version‡: 8373446-1

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

**Location: 280-100940-31, A1082817**Lab ID-Version‡: 8373447-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

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EMLab P&K, LLC EMLab ID: 1790994, Page 7 of 13

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Location: 280-100940-32, A1182817**Lab ID-Version‡: 8373448-1

Sample Layers	Asbestos Content
Brown Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-44, G182917

Lab ID-Version‡: 8373449-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-45, G282917

Lab ID-Version 1: 8373450-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-46, G382917

Lab ID-Version‡: 8373451-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

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Lab ID-Version 1: 8373454-1

4955 Yarrow Street, Arvada, CO 80002

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-47, G482917 Lab ID-Version 1: 8373452-1

20000000 200 200 10 11, 0 1025 21	•
Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-48, PL182917

Lab ID-Version 1: 8373453-1 Sample Layers **Asbestos Content** Brown Non-Fibrous Material ND Sample Composite Homogeneity: Good

Location: 280-100940-49, A183017

Sample Layers	Asbestos Content
Gray Compound	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-50, A283017	Lab ID-Version‡: 8373455-1
Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
Sample Composite Homogeneity: Good	

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EMLab ID: 1790994, Page 9 of 13

Lab ID-Version 1: 8373458-1

Lab ID-Version 1: 8373459-1

4955 Yarrow Street, Arvada, CO 80002

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-51, BA183017 Lab ID-Version 1: 8373456-1

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Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-52, BA283017

Lab ID-Version 1: 8373457-1 Sample Layers **Asbestos Content** Brown/Black Non-Fibrous Material with Paint ND Sample Composite Homogeneity: Good

Location: 280-100940-53, BA383017

200000000000000000000000000000000000000	
Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity	Good

Location: 280-100940-54, BA483017

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
Sample Composite Homogeneity:	Good

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EMLab ID: 1790994, Page 10 of 13

Lab ID-Version 1: 8373462-1

4955 Yarrow Street, Arvada, CO 80002

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 280-100940-55, BA583017 Lab ID-Version 1: 8373460-1

Sample Layers	Asbestos Content
Yellow Coating	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-56, BA683017	Lab ID-Version‡: 8373461-1
Sample Layers	Asbestos Content
Yellow Coating	ND
Sample Composite Homogeneity:	Good

Location: 280-100940-65, INS183017

Sample Layers	Asbestos Content
Multicolored Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-66, INS283017	Lab ID-Version‡: 8373463-1
Sample Layers	Asbestos Content
Yellow Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Good

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Location: 280-100940-67, VG183017**Lab ID-Version‡: 8373464-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-68, VG283017

Lab ID-Version‡: 8373465-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-69, VG383017

Lab ID-Version :: 8373466-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 280-100940-70, PW183017

Lab ID-Version‡: 8373467-1

Sample Layers	Asbestos Content
Gray Felt	40% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: TestAmerica-Denver C/O: Donna Rydberg

Re: 280-100940-1; Questa Pipeline- Lead and

Asbestos

Date of Sampling: 08-28-2017 Date of Receipt: 09-08-2017 Date of Report: 09-19-2017

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Location: 280-100940-71, PW283017**Lab ID-Version‡: 8373468-1

Sample Layers	Asbestos Content
Gray Felt	50% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 280-100940-72, PW383017

Lab ID-Version‡: 8373469-1

Sample Layers	Asbestos Content
Gray Felt	40% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 280-100940-73, PW483017

Lab ID-Version‡: 8373470-1

Sample Layers	Asbestos Content
Gray Felt	50% Chrysotile
Black Tar	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

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EMLab ID: 1790994, Page 13 of 13

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Company.				NEL NOW	Acceditations Requir	Acadelimans Retained (See note): NELAP - Ovegon			∪ab#: 280-100940-1	
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	Page 5 of 6	Spike & Organ; Colorado	Alestamerlesine.com	E-Mail: donna.rydbe.എ@festomerio	donna G-Mail:			Phone:	il
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	Page 6 of 6	Ongin: do	n Colorado	eMali; denna.rydborg@fostamerkcalnc.com	rydbor@@fost	donna.			Pigns.	Receiving	Shipping/Receiving
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Corporation	Client Contact. Tony Kupilik	7	E-Mall: donna.rydberg@testamericainc.com	Page: Page 1 of 1
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10   DAY	Address: 1252 Commerce Drive	Due Date Requested:		Preservation Code
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S - HZSO4
U - Acetone
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V - MCAA
W - pH 4-5
Z - other (specify) **TestAmerica** Sompany Special Instructions/Note: Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont
Special Instructions/QC Requirements: 280-67249-22759.1 Preservation Codes G - Amchlor H - Ascorbic Acid 0360 C - Zn Acetate D - Nitric Acid Page 1 of 1 Job #: E - NaHSO4 F - MeOH I - Ice J - DI Water K-EDTA L-EDA Total Number of containers Date/Time: Method of Shipment Carrier Tracking No(s) Analysis Requested Cooler Temperature(s) "C and Other Remarks E-Mall: donna.rydberg@testamericainc.com Received by: Lab PM: Rydberg, Donna R × QA3 × Chain of Custody Record (on to sey) GSM/SM miorie ield Filtered Sample (Yes or No) Preservation Code: Matrix 5 5 SO S 5 Po#: 17 - 252 WO - L Purchase Order Requested Radiological フィフィ Type (C=comp, G=grab) Sample 5 11-252 WO-L 9 J J J J 9/6/17@ 1500 Date/Time 1615 1450 1535 8/28/17 1440 8/28/17/1420 745-Sample 8128/17 1315 8128/17 1354 10 DAYS Date: KUPILIK Poison B Unknown (AT Requested (days): Due Date Requested: Sample Date 8/28/17 11/82/8 8/28/17 (307) L EVEL 11 Project #: 28017197 Date/Time: SOW#: Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Phone (303) 736-0100 Fax (303) 431-7171 Questa Pipeline - Lead and Asbestos Non-Hazard Flammable Possible Hazard Identification 182817 Empty Kit Relinquished by: 8281 281 T. KUPILIK 38281 8281 Custody Seals Intact:
A Yes A No 28281 18281 Sample Identification Client Information Address: 1252 Commerce Drive lkupilik@trihydro.com Company: Trihydro Corporation Arvada, CO 80002  $\omega$ telinquished by: 10 **Tony Kupilik** 9 State, Zip: WY, 82070 aramie.

**TestAmerica Denver** 

4955 Yarrow Street

13

N - None
O - AsNa02
P - Na2045
Q - Na2045
Q - Na2523
R - Na2523
R - Na2523
V - WGAA
W - pH 4-5
Z - other (specify) **TestAmerica** Special Instructions/Note: ompany Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Special Instructions/QC Requirements: Preservation Codes G - Amchlor H - Ascorbic Acid A - HCL B - NaOH C - Zn Acetate D - Nitric Acid Page: Page 1 of 1 E - NaHSO4 F - MeOH I - Ice J - DI Water K-EDTA L-EDA Total Number of containers Date/Time: Aethod of Shipment Analysis Requested Cooler Temperature(s) "C and Other Remarks E-Mail: donna.rydberg@testamericainc.com Received by: Lab PM: Rydberg, Donna R SISESTOS Chain of Custody Record Field Filtered Sample (Yes or No) Type (wwwater, Sepolid. (C=comp, Owwaster) (G=grab) (BT=Tissue, A=Att) ( Preservation Code: Matrix Company Radiological Sample 17252W0-L (307) 745-7474 J 9/6/17 (8) 1500 Bate/Time: 0201 0151 1155 8129117 0835 1005 1025 0945 230 0150 Sample 1105 140 10 DAY Date: Deison B Unknown RUPILI K TAT Requested (days): Due Date Requested: Sample Date Project #: 28017197 Date/Time: SOW#: LEVEL Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. コイント ーストレ Phone (303) 736-0100 Fax (303) 431-7171 Questa Pipeline - Lead and Asbesfos Flammable Possible Hazard Identification TestAmerica Denver A1182517 7982917 A1082917 Empty Kit Relinquished by: 11628 11628 C1828 L1628 L162 Custody Seals Intact: 4282917 KUPILIK nquished by. 38291 Sample Identification 82917 Client Information 1252 Commerce Drive tkupilik@trihydro.com Company: Trihydro Corporation Arvada, CO 80002 Non-Hazard 4955 Yarrow Street 10E) 80 elinquished by: Tony Kupilik State, Zip: WY, 82070 SE A8 AZ AY A aramie

N - None
O - Ashaoz
P - NazOds
Q - NazSO3
R - NazS203
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify) **TestAmerica** THE LEADER IN ENVIRONMENTAL TESTING Special Instructions/Note: Company Preservation Codes A - HCL
B - NaOH
C - Zn Acetate
C - Nitric Acid
E - NahSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page 1 of 1 J - DI Water K - EDTA L - EDA Total Number of containers ethod of Shipment Analysis Requested Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements Lab PM:
Rydberg, Donna R
E-Mall:
donna.rydberg@testamericainc.com Received by: Q Chain of Custody Record Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) A moan Preservation Code: (Winwater, Smaothd, Onvestiefolf, Matrix Company Sample
Type
(C=comp,
G=grab) Radiological 17-252W0-L J (307) 745-7474 9/6/17 @ 1500 Date/Time. 1005 1025 1105 1640 230 1510 8/29/17 0835 2490 1155 0150 1140 Sample KUPILIK 10 DAY Date Poison B Unknown TAT Requested (days): Due Date Requested: Sample Date Project #: 28017197 SSOW#: Jate/Time: 2786 Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seals Intact: Custody Seal No. Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171 Questa Pipeline - Lead and Asbestos Non-Hazard Flammable Possible Hazard Identification **TestAmerica Denver** 11528 716280 582917 Empty Kit Relinquished by: T. KUPILIK 382917 282917 L1628 48291 15289 15288 78291 Sample Identification Client Information 1252 Commerce Drive tkupilik@trihydra.com Company: Trihydro Corporation 4955 Yarrow Street alinquished by: Client Contact: Tony Kupilik State, Zip: WY, 82070 O aramie.

i estAmerica Denver			TectAn	TectAmerica
4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Eax (303) 431-7171	Chain of Cust	ain of Custody Record	THE LEADER IN ENVI	THE LEADER IN ENVIRONMENTAL TESTING
Client Information	Sampler: Ku Pi Li K	i erg, Donna R	Carrier Tracking No(s): COC No:	
Client Contact: Tony Kupilik	Phone (301)745-7474	E-Mail: donna.rydberg@testamericainc.com	Page: Page 1 of 1	
Company: Trihydro Corporation		Analysis Requested		
Address; 1252 Commerce Drive	Due Date Requested:		Cod	16
Oity: Laramie	TAT Requested (days):		B NaOH N C - Zn Acetate C	M - Hexane N - None O - AsNaO2
State, Zip: WY, 82070	10 047			P - Na204S Q - Na2SO3
Phone:	PO #:	(40	Poid	R - NaZSZO3 S - HZSO4 T - TSP Dodecahudrate
Email: tkupilik@trihydro.com	1-522 WO-1	S OF NO	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197	10 58	K-EDIA L-EDA	w - pH 4-5 Z - other (specify)
Site:	ssow#.	y) as	oo to Offer	
Sample Identification	Sample Type Sample (C=comp.	Matrix (Waveted Serie) (1) Serie) (1) MSM miohed Serie) (1) MSM moohed Serie) (1)	redmuk leto	errosi con Masso.
Sample Identification	Preserva	X		Special instructions/Note:
A183017	8/34/7 0940 6	S S		
A283017	0111			
BA183017	1115			
13A283017	1120			
134383017	1125			
134483017	1130			
134583017	1140			
134683017	105111	→ — — — — — — — — — — — — — — — — — — —		
	/	1		
		1		
	,	1		
Possible Hazard Identification  Non-Hazard Flammable Skin Irritant	Poison B Kunknown Radiological	Sample Disposal ( A fee may be assess:  Return To Client	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client S Disposal By Lab Archive For Mon	month) Months
Deliverable Requested: I, II, III, IV, Other (specify)	L 2486 11	Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	110 11		
Relinquished by TT KUPILIK Relinquished by	9/6/17 @ 1500	Company Received by Company Received by	Date/Time:	Company
the management of the state of	Paris Print a		Date Charles	Contract of the Contract of th
	Dater ime:	Company Received by:	Date time:	Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks.		

Content Information	l estAmerica Denver 4955 Yarrow Street Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171	Chain of Cus	Chain of Custody Record		TestAmericante restrict THE LEADER IN ENVIRONMENTAL TEST
Control Cont	Client Information	_	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	
Common teacher   Comm	Client Contact: Tony Kupilik	745-747	E-Mail: donna.rydberg@testamericainc.com		1 of 1
Control   Cont	Company: Trihydro Corporation		Analys	sis Requested	Job #;
Sample Harmifleation	Address: 1252 Commerce Drive	Due Date Requested:			000
1	Olly: Laramie	TAT Requested (days):			
Sample Identification   Sample Date   Samp	State, Zip: WY, 82070				
Control   Cont	Phone:		(0		70
Sumple   Martin Projective   Lead and Atherities   Storyer   Sumple   Date   Time   Sumple   Martin	Email: (kupilik@trihydro.com	252W0			1-tce J-DI Water
Sample Identification   Sample Date   Sample Date   Sample Date   Sample Identification   III	Project Name: Questa Pipeline - Lead and Asbestos				K-EDIA L-EDA
Sample   Carpon   Sample   Carpon   Sample   Carpon   C	Site:	SSOW#:	A) as		
1110   1110	Sample Identification	Sample	Matrix (Wayner, Strong) Strong, Ornerston, O		
1110   1110		X	X		
1110	٦	7 0940			
3	٢		×		
13		11151	X		
1130		1120	×		
11 40	W	1125	.×.		
1140	BL483017	1130	,×		
V. Other (specify)		01140	×		
Sample Disposal (A fee may be assessed if samples are retained longer than 1		-	×.×		
We Skin Irritant Poison B Unknown Radiological Sample Disposal (A fee may be assessed if samples are retained longer than 1 or Client Disposal By Lab Archive For Special Instructions/QC Requirements:    Date/Ime:   Date/Ime:   Company   Received by:   Date/Ime:   Date/Ime:   Company   Received by:   Date/Ime:   Date/Ime:   Date/Ime:   Company   Received by:   Date/Ime:   Date		/	1		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 retained lon		/	1		
Sample Disposal (Afree may be assessed if samples are retained longer than 17		7			
by:    Date:   Date:   Time:   Date:   Time:   Date:   Time:   Date:   Time:   Date/Time:   Date	le l	Poison B Unknown		may be assessed if samples are re	etained longer than 1 month) Archive For Months
by:         Date:         Time:         Method of Shipment:           Obate/Time:         Company         Received by:         Company         Company         Date/Time:         Da	Deliverable Requested: 1, 11, 111, IV, Other (specify)	LEVEL 11	Special Instructions/QC Re		
Custody Seal No.:   Company   Received by:   Conjer Temperature(s)*C and Other Remarks:   Date/Time:   Date	Empty Kit Relinquished by:		Time:	Method of Shipment:	
Date/Time: Company Received by: Date/Time: D	Reinquished by: Reinquished by:	170	A Receive	~	0515
Custody Seal No.:	Reinquished by:	Date/Time:		Date/Time:	Company
			Cooler Temperature(s) "C a	nd Other Remarks:	

	Sampler:	Lab PM:	Carrier Tracking No(s):	COC NO:
Client Information	RUPICIA	Rydberg, Donna R		
Client Contact: Tony Kupilik	(301) 145- 1474	E-Mail: donna.rydberg@testamericainc.com	uu	Page: Page 1 of 1
Company: Trihydro Corporation		Anal	Analysis Requested	Job #:
Address. 1252 Commerce Drive	Due Date Requested:			Pos
City. Laramie	TAT Requested (days):			B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: WY, 82070	10 DAY			
Phone:	PO#:	(c		G-Amchlor S-H2SO4 H-Ascorbic Acid T-TSP Dodecativitiate
Email: tkupilik@trihydro.com	1-252 WO-L	(oN		J - Di Water
Project Name: Questa Pipeline - Lead and Asbestos	Project #: 28017197	10 88		L-EDA
Site:	SSOW#:	A) as		of co Other:
Sample Identification	Sample Sample (Scomp.)	Matrix (Wowder, Specific Matrix D) Previous (Wooder, Specific Matrix D) Previous (AS)		Number Special Instructions/Note:
	X	ation Code:		
INST B3017	8/30/17 0910 G	S		
INSZB3017	1 5180	×		
VG183017		χ/γ		
VG283017	0630	X/X		
VG383017	0 840	×		
PW183017	0181			
PW283017	0751	, X		
PW 383017	1530	××		
PW483017	V 0240	ンメ		
	/	1		
	/ / /	\ \ \ \		
Possible Hazard Identification Non-Hazard Planmable Skin Irritant	Poison B Kunknown Radiological		essed if samples are re	stained longer than 1 month) Archive For Months
	LEYEL 11	Special Instructions/QC Requirements	Requirements:	
inquished by.	Date:	Time: 7 1	Method of Shipment:	
Reinquished by. T. Koシルル	9/6/17 @ 1500	J	Date/Time: /	17 09(0
Relinquished by:	Date/Time:	Company Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) "C and Other Remarks	C and Other Remarks:	
A Yes A No				

Client: Trihydro Corporation Job Number: 280-100940-1

List Source: TestAmerica Denver

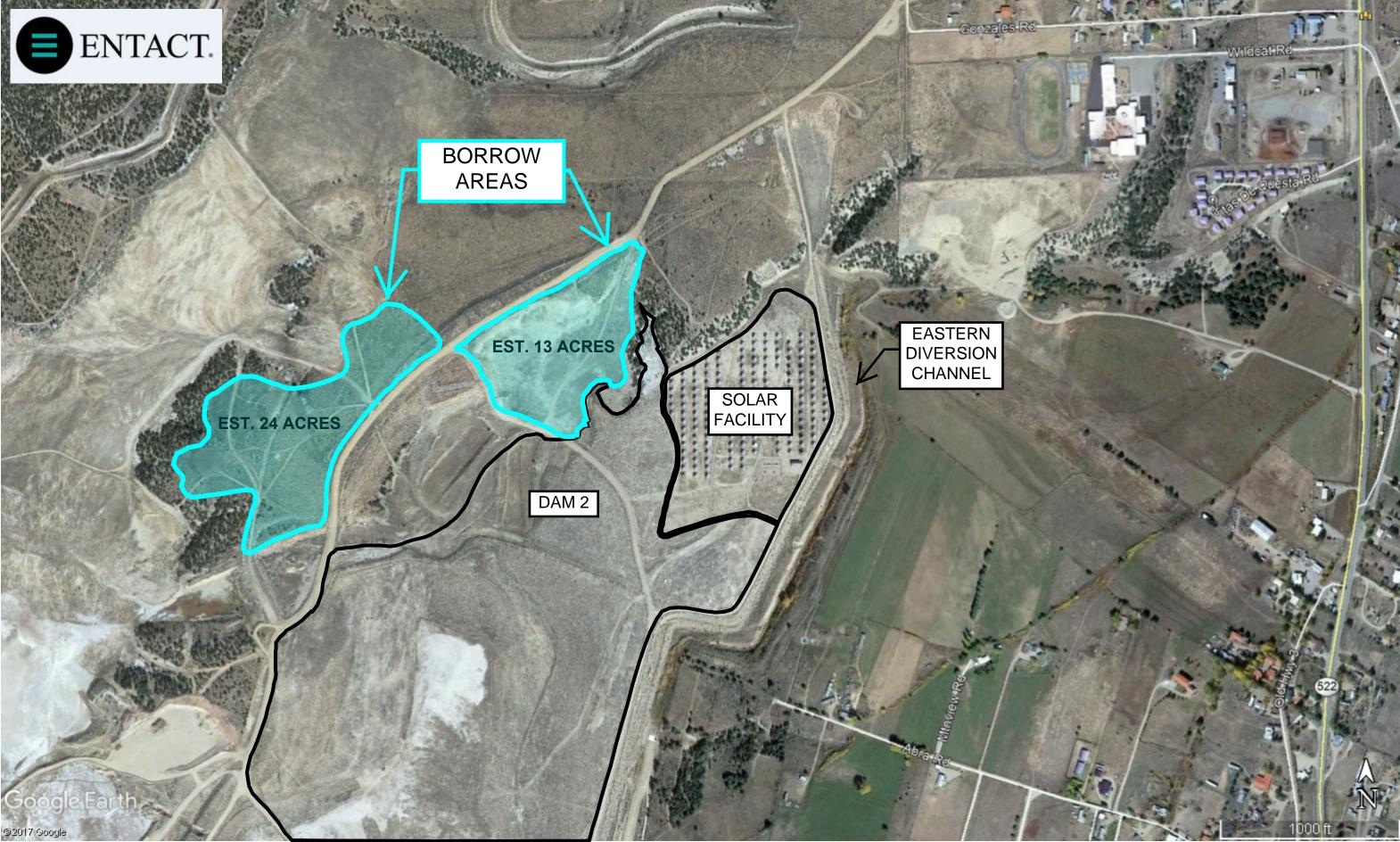
Login Number: 100940 List Number: 1

Creator: True, Joshua A

orditor. True, obstitut A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**APPENDIX C** 

**BORROW AREA MAP** 



### **APPENDIX D**

**EXAMPLE FIELD AND HEALTH AND SAFETY FORMS** 

#### **Pre-Fieldwork Safety-Readiness Review Form**

For all field projects

	For all	field projects							
		Names and initials of required	participants:						
		1. BUL, BUM, or TL:							
Trihydro		2. Project Director:							
Irinyaro		<ol> <li>Project Manager:</li> <li>Field Supervisor:</li> </ol>							
CORPORATION		5. Safety Officer/Lead:							
Business unit name	:	o. Jaioty Gilloon Edad.							
Client name	-	Names and initials of other p	articipants:						
Project name and number		Project-team members:							
Date review performed	:	2. Contractor(s):							
Scheduled project-start date	:	3. Subcontractor(s):							
Scheduled project-end date	:								
	Work-Related Hazards								
Work-Scope Tasks	(refer to the 3x5 Hazard-Assessment Triangle)								
Work-Scope Tasks	(roter to the exertable recomment rhangle)	Anticipated Ha	ızard-Mitigatioı	1 Measures					
	<u> </u>								
Pre-Fieldwork Safety-Readiness Review Checklist			Yes	No	N/A	CAN			
1 Has the project team secured the necessary safe	ty and other work permits required to complete the p	roposed work?							
	prepared and/or updated, and have all project-team	•							
	e they prepared and/or updated their HASP and JSA								
Has the project team been reminded that JSAs not team, and marked up where appropriate before st	eed to be prepared by the project's subject-matter extering and during work each day?	perts, reviewed by all members of the project							
	is a plan to manage lone worker safety in place and	communicated with the project toom?							
6 Do we know if the project site has reliable cell-phone coverage? [If not, request a phone booster from Autumn Bainer.]  7 Has a hand-safety evaluation been completed for this project?									
8 Has each work space been evaluated (and documented) for the possible presence of confined-space work conditions?									
8 Has each work space been evaluated (and documented) for the possible presence of confined-space work conditions? 9 Have team membersincluding contractors and subcontractorsreviewed and understand the project-site hazards and requirements?									
9 Have team membersincluding contractors and subcontractorsreviewed and understand the project-site hazards and requirements?									
10 Do all project-team membersincluding contractors and subcontractorsunderstand Stop Work Authority and the "Slow Down" approach?									
10 Do all project-team membersincluding contractors and subcontractorsunderstand Stop Work Authority and the "Slow Down" approach?  11 Have all applicable PPE (e.g., PID, FID, H2S detector, etc.) and emergency-response equipment been secured and checked for this project?									
Have all applicable PPE (e.g., PID, FID, H2S detector, etc.) and emergency-response equipment been secured and checked for this project?									
12 Have suitable vehicles been secured and are team members familiar with the vehicle types and operation?									
13 If a client site-specific orientation is required, have	e all team members completed the required training?								
14 Have SSE mentors been assigned and provided	with instructions for overseeing each SSE team men	nber?							
15 Is a plan in-place and assignments made to provide	de oversight of "low-use" or special contractor/subco	ontractor team members?							
Have topics been developed and assignments ma	ade for the daily project-safety meetings, including di	scussing potential daily- and task-specific							
hazards?									
17 Has the plan for performing and reporting observa	ations, near misses, and incidents been communicat	ed?							
18 Has the project team been reminded that journey-	management plans (JMPs) should be used during the	ne project where appropriate?							
19 Is a traffic-management plan needed for this proje	ect and has it been completed and communicated to	the project team?							
20 Have procedures for work in or near hazardous at	reas (e.g., trenches, confined spaces, active units) b	neen communicated?							
·	t (e.g., lockout / tag out, swinging, rotating, backing)								
· '									
	ocating Checklist been completed for each drilling/ex								
Have all employees expecting to oversee or performance Best Practices" training session?	rm drilling/excavation work completed the Trihydro "	Subsurface Utility Location and Excavation Safety							
<del></del>	ed in accordance with Trihydro and client procedure	c?							
	·								
	and reporting changed conditions (e.g., hazards, wea	uner, team roles)?							
26 Is a plan in place for transitioning and training cha									
	site-specific hazards and developed a plan(s) to elim	-							
	to be on site for the onboarding, kickoff, and initial s								
	k types, > one week duration, etc.)? If so, please inc be on site in the "Review / Non-CAN Item Comments								
	ed, qualified, selected, and approved by the BUL bas	sed on Trihydro and/or client-specific							
requirements?									
Is a safety audit with a Senior Manager planned for	or the early stages of all major field projects? If so,	please indicate the Senior Manager's name and							
	dit in the "Review / Non-CAN Item Comments" box b								
Eindings / Corrective Assign No. 4-4 (CAN) C	oru,		I .			[			
Findings / Corrective-Action Needed (CAN) Summ	aı y		I_	_	_	1			
CAN Item No.			Responsible	Target	Completed				
(i.e., 1 through 30 from the checklist above)	Description	of CAN Item	Person	Date	Date	Initials			
	+								
			<u> </u>						
Review / Non-CAN Item Comments:									
<b>1</b>									

#### **Pre-Fieldwork Safety-Readiness Review Form**

For all field projects

#### Instructions:

1. While using this form, attempts should be made to address or correct the items warranting Corrective Action Needed (CAN) at the time of the evaluation. If this is not practical, each CAN item / finding should be documented above, including assignment of an individual responsible for addressing the CAN item and a target completion date. Once all of the CAN items have been completed, the Project Manager should review them with the responsible TL, BUM, or BUL and secure sign-off initials that each CAN item has been addressed satisfactorily.

2. Copies of this form should be retained by the responsible TL, BUM, and/or BUL and submitted to the Trihydro H&S Team via e-mail HealthSafety@Trihydro.com or fax (307) 755-4959. Please contact the Trihydro H&S Team for help conducting pre-fieldwork safety-readiness reviews, or if you have questions, suggestions, or comments about the forms.

## JOB SAFETY ANALYSIS



JSA Version Date: February 29, 2012						
Job Description: Driving						
Project: Questa		Site Location: Site	wide			
Development Team  Please include the team members employer and email if not employed by Trihydro Corporation:	Position/Title:				Primary Contact	
1. Pat Henricks	Geologist				(307) 760-9447	
2.						
3.						
Reviewed By Please include the reviewers employer and email if not employed by Trihydro Corporation:	Position				Review Date (MM/DD/YYYY)	
1. Todd Forry	Health and Safet	y Manager			10/25/2012	
2. Torrey Fox	Geologist				6/10/11	
3.						
Personal Protective Equipment (PPE)	Needed:		I			
Eye and Face Protection	Body Protection			Fall Protection		
☐ Safety Glasses	☐ Fire Retardant Coveralls			☐ Barriers/Guard Rails		
☐ Face Shield	☐ Poly-coated Tyv	vek Coveralls		Safety Ne	et	
☐ Chemical Goggles	☐ Chemical Resis	tant Coveralls		Personal	Fall Arrest System	
Head Protection	☐ Chemical Resis	tant Apron	Res	spiratory	Protection	
☐ Hard Hat	☐ Reflective Safet	ty Vest		Half-Face	Air Purifying Respirator	
Hearing Protection	☐ Cooling Vest			Full-Face	Air Purifying Respirator	
☐ Ear Plugs	☐ Long sleeved sl	hirt		Chemical	Cartridge	
☐ Ear Muffs	Biological Protect	ion		Particulat	e Filter	
Hand Protection	☐ Snake Gaiters			Cartridge	/Filter Combo	
☐ Industrial Work Gloves	Sunscreen			Ammonia	Cartridge	
☐ Chemical Resistant Gloves	☐ Insect Repellan	t		H2S Esca	ape Cartridge	
☐ Laceration Resistant Gloves	Hazardous Atmos	phere Protection		Asbestos	Filter (P-100)	
Foot Protection	☐ Air Monitoring E	quipment			Air Purifying Respirator	
☐ Leather Boots	☐ Ventilation Fan		(PA	PR) <b>(con</b> t	tact H&S dept.)	
☐ Steel-Toed Boots	☐ Level C		_		Air Respirator (SAR)	
☐ Chemical Resistant Boots	Level B (contact	ct H&S dept.)	(co	ntact H&S	S dept.)	
Water Safety	Level A (contac	ct H&S dept.)			ained Breathing	
☐ Personal Flotation Device	Decontamination I	Materials		-	CBA) (contact H&S	
☐ Waders	☐ Equipment Dec	ontamination	dep	, <i>j</i>		
	☐ Personnel Deco	ontamination		Other:		
☑ Other: First aid/vehicle kit		cones		Other:		

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Job Steps	Ha	zard(s)	Potential Ha	azard(s)	Critical Action(s)	Responsible Person
Routine or non-routine journey management plan (JMP) – check (all drivers)		X X	A. Personal Injur B. Property dama physical injury	age or	A. Check the JMP before proceeding to the vehicle.  3. Assess if journey is needed due to weather conditions (e.g., snow, ice, rain, wind). Check before each vehicle trip around the site since work areas can be changed throughout the day.	
Perform vehicle inspection (all drivers)  4. Pre vehicle entry		X X	A. Vehicle failure injury (Gravity)  A. Personal Injure	) (Motion)	A. Fill out vehicle inspection form for any vehicles used for the day. DO NOT use vehicle until issues are addressed.  • Clean mirrors and windows. Inspect the interior of the vehicle; including seat belts and gauges.  • Remove any clutter or items that may affect your driving, visibility or pedal control.  • Follow appropriate maintenance schedule for your vehicle.  • Verify insurance card, registration, and inspection.  • Refer to the owner/operator manual generally kept in the glove box.  • Verify presence of spill kit, first aid kit, and fire extinguisher within inspection period  A. GOAL: before entering your	

Revised January 2014 2 of 7

Job Steps	ŀ	Hazaı	rd(s)		Potential Hazard(s)	Critical Action(s) Responsible Person
Configure coating	26			X	A Porconal Injury Visibility	A Adjust coating to a
Configure seating and controls and lock doors (all drivers)	今金万山の			X	A. Personal Injury Visibility; poor driver ergonomics and/or poor driver control (Motion)	<ul> <li>A. Adjust seating to a comfortable position and so that you can easily reach the pedals and steering wheel.</li> <li>Adjust all mirrors.</li> <li>Wear seat belt.</li> <li>If you haven't operated this vehicle before, become familiar with all the controls and where everything is located in the vehicle.</li> <li>Look for blind spots in your viewing area.</li> <li>Refer to the owner's manual if necessary.</li> </ul>
Starting vehicle (all drivers)				x	A. Unexpected vehicle movement; engine damage or failure (Motion)	A. Before starting, ensure that the vehicle is in park and the parking brake is applied.  • After starting, check all gauges for proper temperatures, pressures, etc.
Pulling away from parked area (all drivers)	谷金子山の	x		X	A. Collision with other vehicles, objects or persons (Gravity) (Motion)	A. Check mirrors and over the shoulder before pulling away.  • Vehicle should be situated so the first movement is forward, however if backing, either use a spotter or blow horn to warn others.  • Proceed cautiously.
Driving (all drivers)	谷金ケー	x		X	A. Vehicle strikes; vehicle accidents; equipment damage (Gravity) (Motion) B. Collision with wildlife (Biological)	A. Follow JMP applicable to your journey. Review driving JSA. Plan your route, review maps before leaving.  • Obey all laws of the land as well as site procedures.

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Job Steps	Hazard(s)	Potential Hazard(s)	Critical Action(s)	Responsible Person
Parking	X X	A. Pedestrian collision /	Follow posted speed limit.  Be prepared to 'expect the unexpected'. You never know what someone else (or animals) might do.  NEVER drive under the influence of drugs or alcohol.  Follow posted signs at other locations.  Never operate the vehicle if you are abnormally tired.  Cell phone usage is prohibited while driving a vehicle, including hands free devices such as headset and speaker phones.  Implement 'first move forward' by backing into locations upon arrival.  Be observant of pedestrians (main field office area) and other traffic around you.  Engage parking brake once vehicle is parked. Do not place equipment/supplies above mirror line of sight (i.e., inside cab and or truck bed).  Pull off the road if necessary during bad weather.  B. Scan the area for wildlife including dogs, cats, deer, cows, horses, elk, coyotes, fox's, badgers, and prairie dogs while traveling on site. Watch road sides for movement and pull vehicle to side of road if animal observed. Be particularly aware of animals present in roadway during dusk and morning.	
(all drivers)	X X	Property damage(Gravity)(Motion)	spots when available  Use signals before pulling from curb and during any change of lane or turn	

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Job Steps	Н	azaro	d(s)			Potential Hazard(s)		Critical Action(s)	Responsible Person
Post drive (all drivers)		x		x	A.	Personal Injury / Property damage (Gravity)(Motion)	Α.	<ul> <li>Back into parking space when possible and safe</li> <li>Maintain a cushion of safety from fixed objects when parking</li> <li>Set parking brake if on incline; chock wheels if working on steep slopes</li> <li>Report vehicle problems to company representative or rental car agency.</li> </ul>	

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As the Supervisor my signature below indicates that the requirements, conditions, and procedures listed above are in place and have been verified and reviewed with the affected personnel prior to the start of work.

Supervisor Name (print):	Signature	Date
Prior to work, I have read and understand the Pl also understand the job steps, potential hazards this JSA on site and identify daily variances and task site that contain pen-and-ink changes ("dirty	, and critical actions identified for employee to understand I can make pen and ink changes	task and hazard awareness. I agree to have s to meet those variances. JSAs used at the
Name (print):	Signature	Date

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### **END OF DAY**

# REVISIONS TO JSA (Any tasks that were "dirtied up")

Date	Job Step #	REVISION	Does JS to be u perman	SA need pdated nently?	Responsible Person
	•		Yes	No	

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### DAILY TAILGATE SAFETY MEETING



NOTE: A new tailgate meeting must be conducted if conditions, location, or personnel change. \_\_\_\_\_ Time: \_\_\_\_ a.m. p.m. Location: \_\_\_\_\_(city, state) Date: \_\_\_\_\_ Client: \_\_\_\_\_ Project Name: \_\_\_\_\_ Current Objective/Description: **Commitment to Safety** I will protect myself for me, my family, Trihydro, clients, and contractors by watching for and mitigating risky behaviors, exercising stop-work authority to prevent incidents and injuries and by complying with Trihydro and client policies, procedures, and JSAs/JLAs I understand that safety is my personal responsibility and that working safely is a key component in providing quality work. 3. I will set an example for my fellow employees, contractors, clients, and family by working safely. I will drive defensively and "Safely for My Family," abiding by Trihydro and client policies and applicable laws and regulations. I will "slow down" appropriately to work at a pace that will allow me and others to complete each task efficiently and safely. I will hold myself accountable for my safety and the safety of those around me. I will think about the safety of me, my coworkers, contractors, and our clients before I conduct each task. \* Stop Work Authority (SWA) – "Everyone has the authority and obligation to immediately stop all unsafe work." Identify High-Hazard Work: Hot Work Elevated/overhead work Boat / over-water operations Work involving equipment within 15' of active overhead electrical line or LOTO Excavations - any Demolition, removal of pole supporting an electric pipelines and buried structures **Confined Space Entry** Drilling - any **Associated and Identified Hazards:** ☐ Pinch points ☐ High-pressure processes ☐ Earthquake ☐ Abrasions, cuts, scrapes ☐ High-temperature processes ☐ Power tools ☐ Electrical ☐ High wind ☐ Pulled into ☐ Allergies (self & co-workers) ☐ Asbestos ☐ Equipment failure Laceration ☐ Radiation/X-ray ☐ Security ☐ Biological ☐ Ergonomic ☐ Lightning ☐ Buried utilities ☐ Excavations in area? Severe weather Loud noise ☐ Falling □ Scaffolds ☐ Burn hazards ☐ Machine guarding ☐ Fire/explosion ☐ Slips, trips, falls ☐ Chemical exposure ☐ Subsurface utilities ☐ Cold stress ☐ H<sub>2</sub>S ☐ No locking/fixed blades ☐ Traffic ☐ Compressed gases ☐ Hand injury Overexertion ☐ Crane or lifting equipment Overhead utilities ☐ Water Heat stress □ Drilling in area? ☐ Pedestrian ☐ Heavy equipment Other: See it! Identify Current Objective Hazards: Assess Trihydro's 3 Most Assess Trihydro's 5 Most Other Hazards Serious Risks Frequent Risks Traffic/Heavy Equipment Hand Injuries Weather Hazardous Atmosphere Lifting Working at Heights **Utility Contact** Biological Hazards Chemical Exposure Slips, trips, falls

Daily Tailgate Safety Meeting Created: June 30, 2011

Personal Protective Equipment	nt (PPE):							
☐ Hard hat	☐ Arm sleeves	☐ Dust mask	Other special	equipment:				
☐ Safety glasses	☐ High visibility vest	visibility vest Respirator						
☐ Safety toed boots	☐ Rain gear	Cartridges/filters: ☐ VOC/H₂S escap	ре 📙					
☐ Ear plugs (as needed)	☐ Rubber boots	H <sub>2</sub> S monitor						
☐ Face shield	□ SCBA	☐ Bump test ☐ FRCs/Nomex						
☐ Fall protection	☐ Snake chaps	☐ Tyvek <sup>®</sup>						
☐ Gloves (as needed)	☐ Sunscreen (as needed)	☐ Insect repellant						
_ Cloves (as needed)	curiscreen (as necuca)	*Do not apply DEET to FF	RCs*					
Before Beginning Work:								
☐ Sign in and out of process unit ☐	N/A	☐ Review the JSA an	☐ Review the JSA and "dirty up" if necessary					
☐ HASP reviewed & acknowledged		☐ Weather forecast: ☐ Hot ☐ Cold ☐ Inclement Wind Direction:						
☐ Locate the nearest evacuation point	t and a secondary location	☐ Employee(s) are wearing proper PPE						
	Identify the nearest fire extinguisher, eyewash station, first aid kit, and Material Safety Data Sheets (MSDS)			☐ Perform a "self check" on each personal H₂S monitor				
☐ Identify CPR/AED/first aid certified e		☐ Perform a Work-Sit	te Self Assessment (WS	SA)				
☐ If lone worker, implement lone work	If lone worker, implement lone worker procedures   N/A			Review the dashboard emergency flyer for the specific site; place in a visible location inside vehicle				
☐ Identify SSE, visitor(s), or guest(s)	□ N/A	☐ Barricade work zor	ie (as needed)					
☐ Determine and acquire necessary p	ermits	☐ Review WorkCare	Review WorkCare Injury Accident Program card					
Permit required:		PPE Action Levels (PID: 10ppm)						
Safe Vehicle Use:								
☐ Pre-inspection complete	☐ Mileage sheet filled	d out	☐ GOAL sticker in window					
☐ Seat belt	☐ No cell phones use	ed while driving	☐ Spotter used (if available)					
☐ Follow all speed and traffic rules	☐ Parked in a safe lo	cation	☐ First move forward, backed in					
☐ Emergency brake used	☐ Orange cone used		☐ Load secured in vehicle					
☐ Keys left in vehicle	☐ Chock tires (if need	ded)	☐ 3D-Driving (every 2 years)					
☐ Trailer Safety Inspection form	☐ Other:		Other:					
Site-Specific Comments:			·					
Positive Reinforcement (R+):_								
Signatures:								
Meeting Conducted By:	(desig	gnated project on-site sa	afety responder) Co	ompany:				
Printed Name	Signature	Company	Attended Mid-Day Safety Focus	Is this worker new on-site?				
1.			☐ Yes ☐ No	☐ Yes ☐ No				
2.			☐ Yes ☐ No	☐ Yes ☐ No				
3.			☐ Yes ☐ No	☐ Yes ☐ No				
4.			☐ Yes ☐ No	☐ Yes ☐ No				
5.			☐ Yes ☐ No	☐ Yes ☐ No				
6.			☐ Yes ☐ No	☐ Yes ☐ No				
7.			☐ Yes ☐ No	☐ Yes ☐ No				

## JOURNEY MANAGEMENT PLAN



Date:	Project Number	er:			Driver:		
Destination:	Driver Cell Number:						
Departure Time:				Anticipated Arriva	I Time:		
Total Hours (not to exceed 1	6 hours):		=	Work Hrs	+	Driving Hrs_	
Plan the journey and notify p Keep a copy of this plan with							
In case of an emergency o	r incident, cont	tact the Hea	olth & Safety	Response Team	at (307) 75	5-4888.	
Purpose of Trip							
Hazards							
Pre-Trip Questions							
Is this trip necessary?						☐ Yes	□No
Is there an alternative that do	oes not involve o	driving?				☐ Yes	☐ No
If yes, by what means:							
Is someone else already going to the same destination?					☐ Yes	☐ No	
Do I have a map to my destination?						☐ Yes	☐ No
Has the proper vehicle been selected?						☐ Yes	☐ No
Is the vehicle equipped with emergency supplies?						☐ Yes	☐ No
Do I have current driver training for this trip?						☐ Yes	☐ No
Am I well rested and alert for the journey?					☐ Yes	☐ No	
Do I have effective means of communications during my journey?					☐ Yes	☐ No	
Has a pre-trip vehicle inspection been completed and documented?					☐ Yes	☐ No	
Have road condition reports been reviewed prior to the journey? ☐ Yes					☐ No		
Weather:	☐ Dry	☐ Windy	☐ Rain	☐ Snow	☐ Icy	☐ Fog	☐ Dust
Road Conditions:	☐ Dirt Road	I Co	onstruction	☐ Paved	Road	☐ Mixed Cor	nditions
Night Driving:	☐ Yes	☐ No		Is it essential?	☐ Yes	□No	
Vehicle:	☐ Fleet Veh	nicle	☐ Re	ntal Vehicle	☐ Per	sonal Vehicle	
Make*:	Model*:			Year*:		Color*:	
VIN* or Fleet Number:				License Pla	ite State/Nu	mber*:	
Condition:	☐ Satisfactory						
Vehicle Inspection Form Cor	npleted?		☐ Yes	☐ No			
Vehicle preventive maintenance up to date?			☐ Yes	☐ No			

When traveling to the site, contact your supervisor/project manager to confirm your safe arrival. On return journey, contact your supervisor/project manager when you depart from site and upon arrival back to start point to confirm your safe travels.

\*For rental or personal vehicle, if available.

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For Overnight Sta	ys Hotel Name:		Telephone:		
	City:		State:		
Route Planned	(Auto route, train informa	ation, and/or flight information):	E		
Unconventional T	Verify the following:  Name is on the aircr Pilot performs safety	y briefing prior to takeoff	<ul> <li>Do not approach aircraft from the rear approach from front quadrant or side</li> <li>Stay clear of tail rotor</li> </ul>	;	
Drivete Aircreft	Hats are not worn or	n flight line	- Stay clear of fair fotor		
☐ Private Aircraft	<ul> <li>Verify the following:</li> <li>Name is on the aircr</li> <li>Pilot performs safety</li> <li>Hats are not worn or</li> </ul>	y briefing prior to takeoff	<ul> <li>Do not approach aircraft from the rear approach from front quadrant or side</li> </ul>	•	
☐ Watercraft ☐ Other:	-	r is on the watercraft manifest afety briefing prior to launch	<ul> <li>Personal flotation devices are available/worn</li> <li>Notify supervisor of vessel number</li> </ul>		
Supervisor/PM App	roval:		Date:		
Employee site arriv	al: Dat	te:	Time:		
Employee site depa	arture: Dat	te:	Time:		
Employee home an	rival: Dat	te:	Time:		

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