



**QUESTA TAILINGS PIPELINE REMOVAL  
STAGE 4 WORK PLAN  
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY  
QUESTA MINE**

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**August 13, 2018**

**Project #: 476-027-002**

**SUBMITTED BY:** Trihydro Corporation

707 West 1<sup>st</sup> Street, Casper, WY 82601

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# 1.0 INTRODUCTION

Chevron Mining Inc. (CMI) submitted the revised “Questa Tailings Pipeline Removal Mining Minerals Division (MMD) / New Mexico Environmental Department’s (NMED) Work Plan, Chevron Environmental Management Company, Questa Mine” (Removal Work Plan) (Trihydro 2017) to New Mexico Energy, Minerals and Natural Resources Department (EMNRD), MMD, NMED Groundwater Bureau, and U.S. Environmental Protection Agency, Region 6 (USEPA) on May 19, 2017. Approval for this 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 pipeline segments.

The pipeline removal project has been divided into eight stages. Stage 1 activities entailed the removal of high density polyethylene (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. Stages 2 through Stage 8 are outlined in Table 1-1 and are not anticipated to be completed in numerical order.

This document represents the individual plan for Stage 4 removal of the tailings pipeline. The work identified in this plan will result in the removal of approximately 8,300 feet (ft) of pipe. The pipe will be removed principally from United States Forest Service (USFS) owned property.

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

Pipeline Segment Description	Approximate Length of Segment (feet)	Stage
Tailing Facility	10000	1
Columbine Wells Area	4000	2
Tailing Facility Entrance	2800	2
Corny's Corner hillside	1200	2
4th Road Crossing (State Road) plus Embargo Road	1100	2
Singleton's Cut	2900	2
Robinson's Property	850	2
East of Molycorp baseball field	1400	2
Upstream of the lower Dump Sump	1600	2
Pressure vessels to underground	500	3
East of Middle Pile	1000	3
Goat Hill Entrance Area	2350	3
Bear Cut	2500	3
USFS Office Area	3200	4
Forest Service Property west of Molycorp field	950	4
East of Sulphur gulch	650	5
West of Sulphur gulch	1200	5
Sugar Shack South	4100	5
1st Road Crossing (East Hwy 38 road)	90	5
Columbine Curve	1400	5
2nd Road Crossing	90	5
Admin Section	1800	5
Between Goat Hill and Bear Cut	2500	5
3rd Road Crossing	90	5
Rock Wall (Between Bear Cut and Forest Service) (aka "Rock and Hard Place")	3300	5
Lower Embargo Road Crossing		5
Rael Property	1500	6
1st River Crossing (by Columbine Park)	60	6
2nd River Crossing (aka Thunder Bridge)	100	6
3rd River Crossing	100	6
Elevated Trestle	1300	7
Lower Dump Sump	0	8
Downstream of 1st River Crossing- Columbine Park Entrance	600	

## 2.0 AGENCY PERMITS AND NOTIFICATIONS

The bulk of Stage 4 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 excavation permit from Taos County will be required if tailings removal will exceed 50 cubic yards. The amount of tailings to be removed will be calculated during the pipe removal process. If the estimated quantity exceeds 50-cubic yards CMI will apply to Taos County for an excavation permit.
- 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 4 piping was found to be non-detect for asbestos 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).
- A Storm Water Pollution Prevention Plan (SWPPP), 2012 Construction General Permit (GCP) will be obtained before starting work.
- Consultation with the New Mexico Historic Preservation Division (NMHPD) of the New Mexico Department of Cultural Affairs regarding the historic structures survey being completed at the site. A survey was completed and submitted to NMHPD.
- Consultation with the United States Corps of Engineers (USACE) regarding potential navigable waters and/or wetlands near the pipeline segment.
- Consultation with the New Mexico Office of the State Engineer (OSE) regarding possible structures permitted through the OSE near the pipeline segment.
- Notification to Amigos Bravos, Trout Unlimited, and the Irrigation District regarding streams near the pipeline segment.

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

### 3.0 STAGE 4 AREAS

A description of the areas included in the Stage 4 pipeline removal plan are illustrated in Table 3-1. Figure 3-1 provides an overall view of the Stage 4 project areas. Detailed views of individual pipe sections are included as Figures 3-2 and 3-3.

**TABLE 3-1. AREAS INCLUDED IN STAGE 4 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
USFS Office Area	3200	Not in peak tourist season or in winter months; late fall preferred for work	A	N	3-2
USFS Property West of Molycorp Field	950	Not in peak tourist season or in winter months; late fall preferred for work	A Partially U	N	3-3

## 4.0 REMOVAL ACTIVITIES

Prior to 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 the paint used to coat piping along the alignment was non-detect for lead. Results from asbestos sampling and analysis showed non-detect along the Stage 4 alignment. Sample locations and results are shown in Figures 4-1 and 4-2. 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 A.

Utility locates, and any necessary surveying will be conducted prior to pipe removal activities. Although unlikely in Stage 4 activities, road 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 4 pipeline areas are primarily located on the USFS property.

The Stage 4 pipeline is on the surface mainly and it is anticipated that all pipe will be removed. This 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 the tailings 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.

Approximate quantities of material to be removed are detailed in Table 4-1.

**TABLE 4-1. QUANTITIES OF DEMOLITION MATERIALS**

Pipeline Segment Description	Approximate Quantity of Pipe to be Removed (feet)	Approximate Quantity of Concrete (tons)	Approximate Quantity of Steel (tons)
USFS Office Area	6400	128	1
USPS Property West of Molycorp Field	1900	38	0.3

## 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 (Trihydro 2017). The 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, such as a trail. Clean fill, if necessary, will be imported from previously approved borrow sources. A map indicating the locations of borrow material is included as Appendix B.

Once the grading has been completed disturbed areas will be reseeded using the mix detailed in Table 5-1. Alternate seed mixes may be used for 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 based on the area of application.

**TABLE 5-1. SEED MIXTURE**

<b>Grasses</b>		<b>lbs PLS/acre</b>
Western Wheatgrass, var. Arriba	<i>Pascopyrum smithii</i>	5.0
Slender Wheatgrass, var. Sna Luis	<i>Elymus trachycaulus</i>	3.0
Bluebush Wheatgrass, var. Goldar	<i>Pseudoroegneria spicata</i>	4.0
Sand Dropseed	<i>Sporobolus cryptandrus</i>	1.0
Prairie Junegrass	<i>Koeleria macrantha</i>	2.0
<b>Forbs</b>		
Western Yarrow	<i>Achillea millefolium</i>	2.0
Rocky Mountain Penstemon, var. Bandera	<i>Penstemon strictus</i>	4.0
Prairie Coneflower	<i>Ratibida Columnifera</i>	4.0
Showy Evening Primrose	<i>Oenothera speciose</i>	2.0
<b>Shrubs</b>		
Big Rabbitbrush	<i>Ericameria nauseosa</i>	2.0
Apache Plume	<i>Fallugia paradoxa</i>	1.0

## 6.0 STAKEHOLDER ENGAGEMENT

The key stakeholders for this stage of pipeline removal include:

- Taos County
- NMDGF
- USFWS
- USFS (property owner)
- NMHPD
- USACE
- Amigos Bravos/Trout Unlimited
- Irrigation District
- OSE

Outreach to the key stakeholders has begun and will continue throughout the pipeline removal project. Stage 4 activities will be discussed with the public during the scheduled monthly meeting with the Village of Questa.



## 7.0 SCHEDULE

The schedule for Stage 4 of the Questa pipeline removal project is detailed below in Table 7-1

**TABLE 7-1. STAGE 4 PIPELINE REMOVAL SCHEDULE**

Pipeline Segment Description	Target Date of Commencement for Pipe Removal
USFS Office Area	2019 Q1
USPS Property West of Molycorp Field	2019 Q1

## 8.0 HEALTH AND SAFETY

CMI and its contractors 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 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 C.

- 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 Analysis (JSA) forms. JSA forms 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 C.
- 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.

- 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 JSA forms, 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 (JMPs). 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 the documents create 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

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

- **Shaun Harshman.** Shaun is the project manager and primary project contact for Trihydro. 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](mailto: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](mailto:tkupilik@trihydro.com).

The primary contractor for Stage 4 has not been identified. This section will be updated upon contractor project award.

## 10.0 REFERENCES

Trihydro Corporation (Trihydro). 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.

## FIGURES



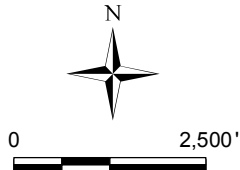
M:\CHEVRON\CEMC\_Mining\QUESTA\PIPELINE\GIS\MAPPING\STAGE4\WORK\PLAN\FIG3-1\_STAGE4PIPELINEWP.MXD



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**EXPLANATION**

- |  |  |
|--|--|
|  PIPELINE                             |  PRIMARY STATE HIGHWAY              |
|  PIPELINE REMOVAL LOCATIONS           |  SECONDARY STATE HIGHWAY            |
|  USFS PROPERTY WEST OF MOLYCORP FIELD |  LOCAL, NEIGHBORHOOD, OR RURAL ROAD |
|  USFS OFFICE AREA                     |  |



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

**FIGURE 3-1**

**STAGE 4 PIPELINE REMOVAL LOCATIONS**

**CEMC QUESTA MINE  
QUESTA, NEW MEXICO**

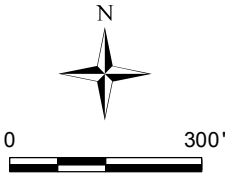


M:\CHEVRON\CEMC\_Mining\QUESTA\PIPELINE\GIS\WORKING\FIG3\_2\_STAGE4PIPELINEWP.MXD



**EXPLANATION**

- PIPELINE
- PIPELINE REMOVAL LOCATION SEGMENTS
- USFS OFFICE AREA



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www.trihydro.com  
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FIGURE 3-2				
STAGE 4 PIPELINE REMOVAL LOCATION USFS OFFICE AREA				
CEMC QUESTA QUESTA, NEW MEXICO				
Drawn By: DH	Checked By: BH	Scale: 1 " = 300 '	Date: 12/11/17	File: Fig3-2_Stage4PipelineWP.mxd

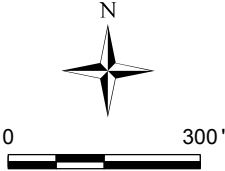


M:\CHEVRON\CEMC\_MAPPING\STAGE4PIPELINE\MAPPING\STAGE4PIPELINE\FIG3\_3\_STAGE4PIPELINEWP.MXD



**EXPLANATION**

- PIPELINE
- PIPELINE REMOVAL LOCATION SEGMENTS
- USFS PROPERTY WEST OF MOLYCORP FIELD



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Laramie, WY 82070  
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**FIGURE 3-3**

**STAGE 4 PIPELINE REMOVAL LOCATION  
USFS PROPERTY WEST OF MOLYCORP FIELD**

**CEMC QUESTA  
QUESTA, NEW MEXICO**

Drawn By: DH | Checked By: BH | Scale: 1" = 300' | Date: 12/11/17 | File: Fig3-3\_Stage4PipelineWP.mxd



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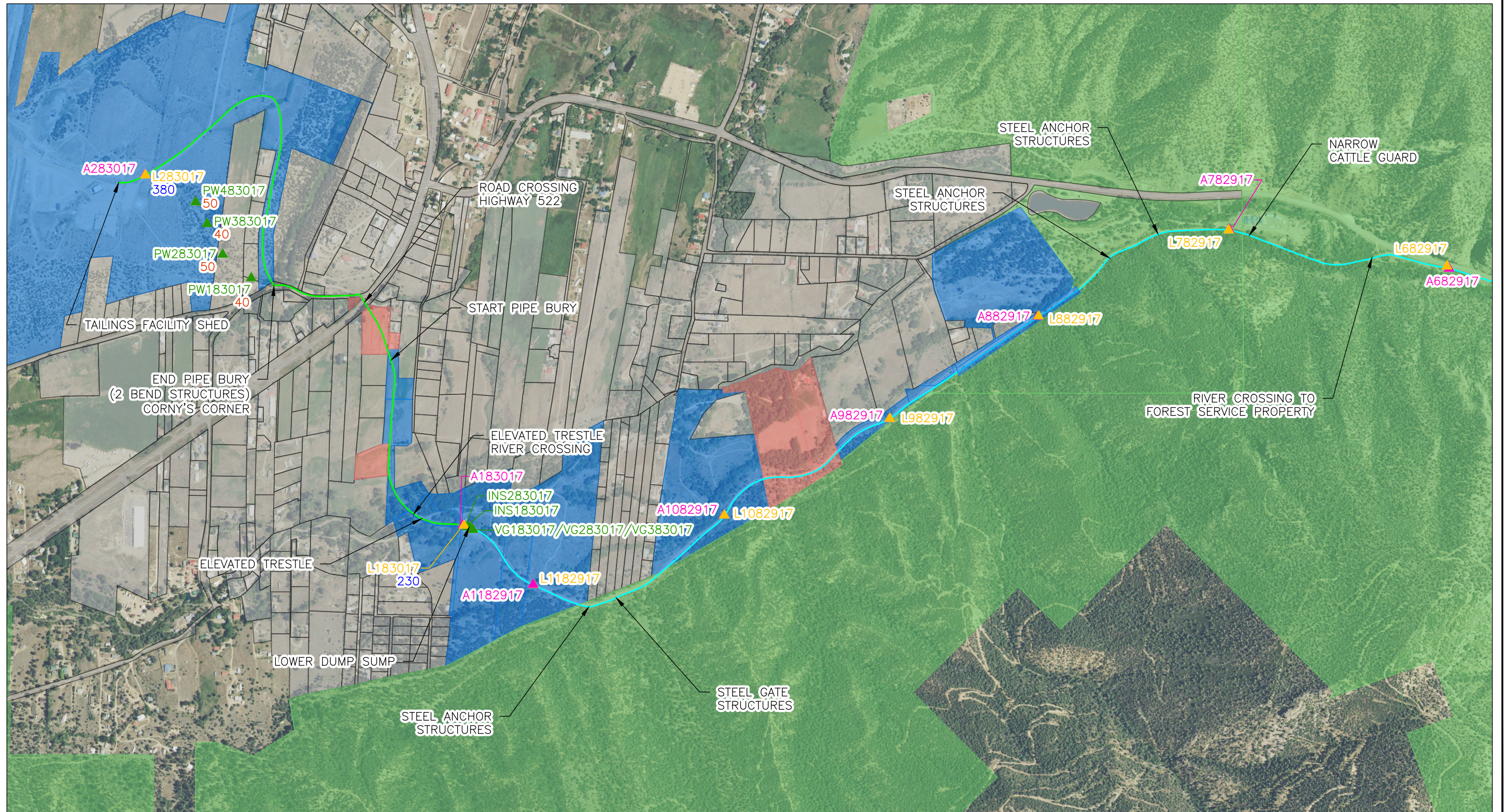
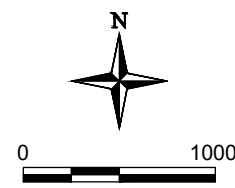


Image Cite: USDA National Agriculture Imagery Program (NAIP) Colored Orthophoto, Taos County, New Mexico, 2016

#### EXPLANATION

- ▲ SAMPLE POINT AND DESIGNATION
- 230 DETECTED LEAD, IN MILLIGRAMS PER KILOGRAM (mg/kg)
- 40 DETECTED ASBESTOS IN % CHRYSOTILE
- TAILINGS PIPELINE ALIGNMENT - EAST OF LOWER DUMP SUMP
- TAILINGS PIPELINE ALIGNMENT - WEST OF LOWER DUMP SUMP

- PRIVATE PROPERTY NEAR PIPELINE
- CMI PROPERTY
- CARSON NATIONAL FOREST
- OTHER PROPERTY



**FIGURE 4-1**  
**PIPELINE SAMPLING LOCATIONS**  
**EXISTING SITE PLAN - WEST AREA DETAIL**  
**CMI TAILINGS PIPELINE**  
**CEMC QUESTA**  
**QUESTA, NEW MEXICO**

Drawn By: PC Checked By: CS Scale: 1" = 1000' Date: 6/18/18 File: 476-QM-PRMT-SITEDetail201806



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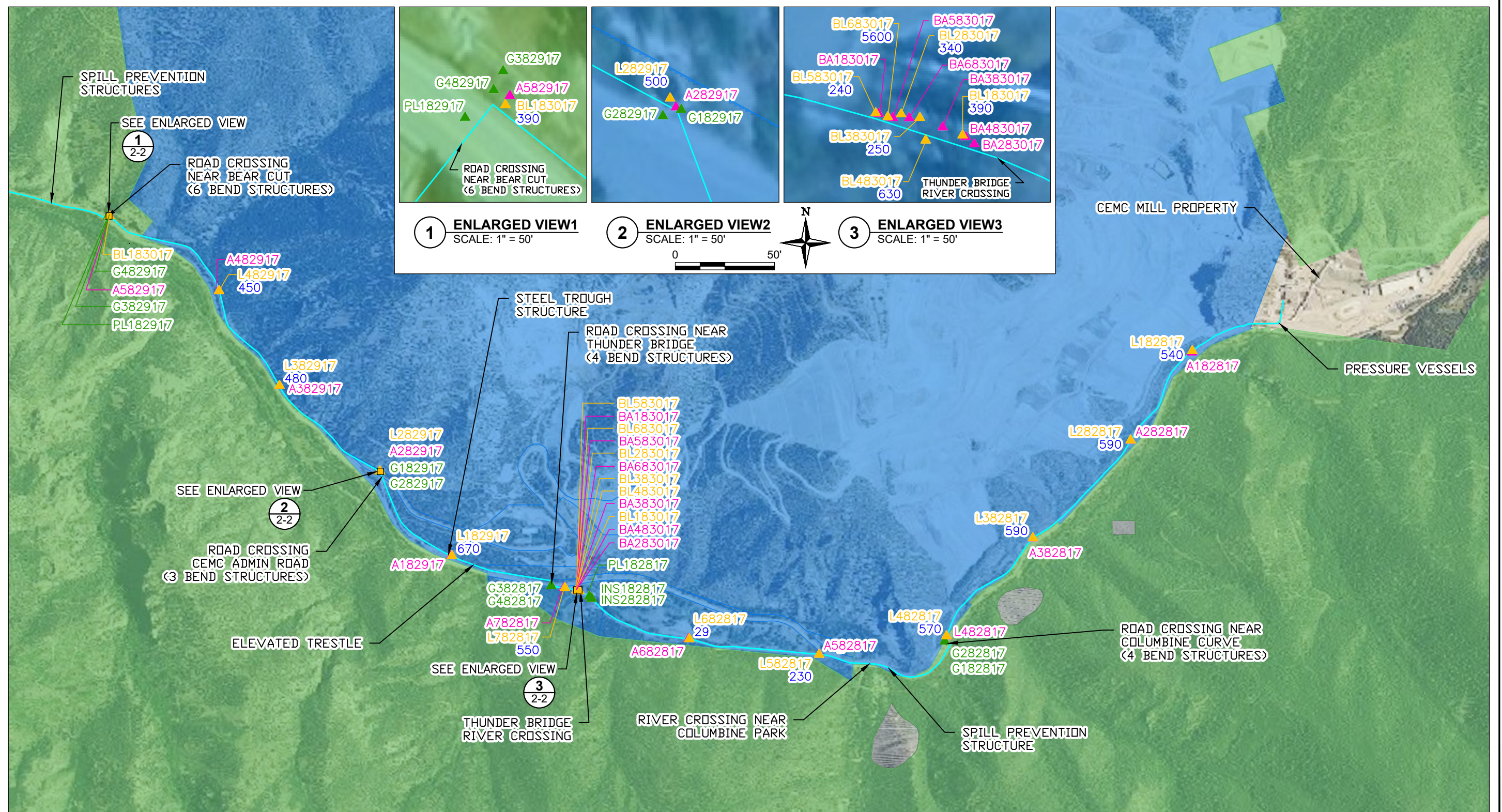
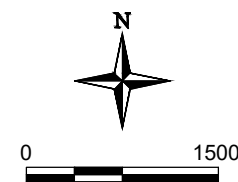


Image Cite: USDA National Agriculture Imagery Program (NAIP) Colored Orthophoto, Taos County, New Mexico, 2016

#### EXPLANATION

			SAMPLE POINT AND DESIGNATION
550			DETECTED LEAD, IN MILLIGRAMS PER KILOGRAM (mg/kg)
			TAILINGS PIPELINE ALIGNMENT - EAST OF LOWER DUMP SUMP
			CMI PROPERTY
			CARSON NATIONAL FOREST
			OTHER PROPERTY



**FIGURE 4-2**  
**PIPELINE SAMPLING LOCATIONS**  
**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**

### **LEAD AND ASBESTOS 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

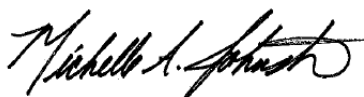
For:

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](mailto:michelle.johnston@testamericainc.com)

Designee for

Donna Rydberg, Senior Project Manager

(303)736-0192

[donna.rydberg@testamericainc.com](mailto:donna.rydberg@testamericainc.com)

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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.

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## Definitions/Glossary

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

TestAmerica Job ID: 280-100940-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# 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.



## Detection Summary

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

TestAmerica Job ID: 280-100940-1

**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	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 Denver

## Detection Summary

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

TestAmerica Job ID: 280-100940-1

### Client Sample ID: L682817 (Continued)

Lab Sample ID: 280-100940-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	29		1.2	0.42	mg/Kg	2		6010C	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 Denver

## Detection Summary

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

TestAmerica Job ID: 280-100940-1

**Client Sample ID: A582917**

**Lab Sample ID: 280-100940-26**

No Detections.

**Client Sample ID: A682917**

**Lab Sample ID: 280-100940-27**

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	Qualifier	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	2		6010C	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.

TestAmerica Denver

## Detection Summary

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

TestAmerica Job ID: 280-100940-1

### Client Sample ID: L682917 (Continued)

Lab Sample ID: 280-100940-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	120		0.77	0.27	mg/Kg	1		6010C	Total/NA

### Client Sample ID: L782917

Lab 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	1		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.

TestAmerica Denver

## Detection Summary

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

TestAmerica Job ID: 280-100940-1

**Client Sample ID: A283017**

**Lab Sample ID: 280-100940-50**

No Detections.

**Client Sample ID: BA183017**

**Lab Sample ID: 280-100940-51**

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	10		6010C	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 Denver

## Detection Summary

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

TestAmerica Job ID: 280-100940-1

### Client Sample ID: BL483017 (Continued)

Lab Sample ID: 280-100940-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	630		15	5.3	mg/Kg	20		6010C	Total/NA

### Client Sample ID: BL583017

Lab Sample ID: 280-100940-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	240		5.5	1.9	mg/Kg	5		6010C	Total/NA

### Client Sample ID: BL683017

Lab Sample ID: 280-100940-64

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5600		5.6	1.9	mg/Kg	5		6010C	Total/NA

### Client Sample ID: INS183017

Lab Sample ID: 280-100940-65

No Detections.

### Client Sample ID: INS283017

Lab Sample ID: 280-100940-66

No Detections.

### Client Sample ID: VG183017

Lab Sample ID: 280-100940-67

No Detections.

### Client Sample ID: VG283017

Lab Sample ID: 280-100940-68

No Detections.

### Client Sample ID: VG383017

Lab Sample ID: 280-100940-69

No Detections.

### Client Sample ID: PW183017

Lab Sample ID: 280-100940-70

No Detections.

### Client Sample ID: PW283017

Lab Sample ID: 280-100940-71

No Detections.

### Client Sample ID: PW383017

Lab Sample ID: 280-100940-72

No Detections.

### Client Sample ID: PW483017

Lab Sample ID: 280-100940-73

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

## 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 (pric	General Sub Contract Method	NONE	

### Protocol References:

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

# 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	08/28/17 15:35	09/07/17 09:15
280-100940-14	L782817	Solid	08/28/17 16:15	09/07/17 09:15
280-100940-15	INS182817	Solid	08/28/17 15:55	09/07/17 09:15
280-100940-16	INS282817	Solid	08/28/17 15:55	09/07/17 09:15
280-100940-17	PL182817	Solid	08/28/17 15:55	09/07/17 09:15
280-100940-18	G182817	Solid	08/28/17 14:50	09/07/17 09:15
280-100940-19	G282817	Solid	08/28/17 14:50	09/07/17 09:15
280-100940-20	G382817	Solid	08/28/17 16:40	09/07/17 09:15
280-100940-21	G482817	Solid	08/28/17 16:40	09/07/17 09:15
280-100940-22	A182917	Solid	08/29/17 08:35	09/07/17 09:15
280-100940-23	A282917	Solid	08/29/17 09:10	09/07/17 09:15
280-100940-24	A382917	Solid	08/29/17 09:45	09/07/17 09:15
280-100940-25	A482917	Solid	08/29/17 10:05	09/07/17 09:15
280-100940-26	A582917	Solid	08/29/17 10:25	09/07/17 09:15
280-100940-27	A682917	Solid	08/29/17 11:05	09/07/17 09:15
280-100940-28	A782917	Solid	08/29/17 11:40	09/07/17 09:15
280-100940-29	A882917	Solid	08/29/17 11:55	09/07/17 09:15
280-100940-30	A982917	Solid	08/29/17 12:30	09/07/17 09:15
280-100940-31	A1082917	Solid	08/29/17 15:10	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	09/07/17 09:15
280-100940-46	G382917	Solid	08/29/17 10:20	09/07/17 09:15
280-100940-47	G482917	Solid	08/29/17 10:25	09/07/17 09:15
280-100940-48	PL182917	Solid	08/29/17 10:30	09/07/17 09:15
280-100940-49	A183017	Solid	08/30/17 09:40	09/07/17 09:15
280-100940-50	A283017	Solid	08/30/17 11:10	09/07/17 09:15
280-100940-51	BA183017	Solid	08/30/17 11:15	09/07/17 09:15
280-100940-52	BA283017	Solid	08/30/17 11:20	09/07/17 09:15
280-100940-53	BA383017	Solid	08/30/17 11:25	09/07/17 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

# Client Sample Results

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

TestAmerica Job ID: 280-100940-1

## Method: 6010C - Metals (ICP)

Client Sample ID: L182817  
Date Collected: 08/28/17 13:15  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-8  
Matrix: Solid

Analyte	Result	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  
Date Collected: 08/28/17 13:54  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-9  
Matrix: Solid

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

Lab Sample ID: 280-100940-10  
Matrix: Solid

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

Client Sample ID: L482817  
Date Collected: 08/28/17 14:40  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-11  
Matrix: Solid

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  
Date Collected: 08/28/17 14:50  
Date Received: 09/07/17 09:15

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

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  
Date Collected: 08/28/17 15:35  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-13  
Matrix: Solid

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  
Date Collected: 08/28/17 16:15  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-14  
Matrix: Solid

Analyte	Result	Qualifier	RL	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  
Date Collected: 08/29/17 08:35  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-33  
Matrix: Solid

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

Lab Sample ID: 280-100940-34  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	500		0.87	0.30	mg/Kg	-	09/11/17 13:30	09/12/17 03:05	1

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-100940-1

## Method: 6010C - Metals (ICP)

Client Sample ID: L382917  
Date Collected: 08/29/17 09:45  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-35  
Matrix: Solid

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

Lab Sample ID: 280-100940-36  
Matrix: Solid

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

Lab Sample ID: 280-100940-37  
Matrix: Solid

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

Lab Sample ID: 280-100940-38  
Matrix: Solid

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  
Date Collected: 08/29/17 11:40  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-39  
Matrix: Solid

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

Lab Sample ID: 280-100940-40  
Matrix: Solid

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  
Date Collected: 08/29/17 12:30  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-41  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	430		0.78	0.27	mg/Kg	—	09/11/17 13:30	09/12/17 03:45	1

Client Sample ID: L1082917  
Date Collected: 08/29/17 15:10  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-42  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	460		0.72	0.25	mg/Kg	—	09/11/17 13:30	09/12/17 03:48	1

Client Sample ID: L1182917  
Date Collected: 08/29/17 16:40  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-43  
Matrix: Solid

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

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-100940-1

## Method: 6010C - Metals (ICP)

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

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	1

Client Sample ID: L283017  
Date Collected: 08/30/17 11:10  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-58  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	380		5.0	1.7	mg/Kg	-	09/11/17 13:30	09/13/17 06:16	5

Client Sample ID: BL183017  
Date Collected: 08/30/17 11:15  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-59  
Matrix: Solid

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

Client Sample ID: BL283017  
Date Collected: 08/30/17 11:20  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-60  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	340		8.3	2.9	mg/Kg	-	09/11/17 13:30	09/13/17 06:31	10

Client Sample ID: BL383017  
Date Collected: 08/30/17 11:25  
Date Received: 09/07/17 09:15

Lab Sample ID: 280-100940-61  
Matrix: Solid

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

Lab Sample ID: 280-100940-62  
Matrix: Solid

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

Lab Sample ID: 280-100940-63  
Matrix: Solid

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

Lab Sample ID: 280-100940-64  
Matrix: Solid

Analyte	Result	Qualifier	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

# QC Association Summary

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

TestAmerica Job ID: 280-100940-1

## 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

# 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

# QC Sample Results

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

TestAmerica Job ID: 280-100940-1

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-387083/1-A  
Matrix: Solid  
Analysis Batch: 387317

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 387083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.90	0.31	mg/Kg		09/11/17 13:30	09/12/17 03:33	1

Lab Sample ID: LCS 280-387083/2-A  
Matrix: Solid  
Analysis Batch: 387317

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 387083

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

Lab Sample ID: LCSD 280-387083/3-A  
Matrix: Solid  
Analysis Batch: 387317

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 387083

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	50.0	50.4		mg/Kg		101	86 - 110	0	20

Lab Sample ID: MB 280-387084/1-A  
Matrix: Solid  
Analysis Batch: 387317

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 387084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.90	0.31	mg/Kg		09/11/17 13:30	09/12/17 02:25	1

Lab Sample ID: LCS 280-387084/2-A  
Matrix: Solid  
Analysis Batch: 387317

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 387084

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

Lab Sample ID: LCSD 280-387084/3-A  
Matrix: Solid  
Analysis Batch: 387317

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 387084

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	50.0	49.9		mg/Kg		100	86 - 110	1	20

# Lab Chronicle

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

TestAmerica Job ID: 280-100940-1

**Client Sample ID: L182817**

**Date Collected: 08/28/17 13:15**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-8**

**Matrix: Solid**

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

**Client Sample ID: L282817**

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

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-9**

**Matrix: Solid**

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**

**Date Collected: 08/28/17 14:20**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-10**

**Matrix: Solid**

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

**Client Sample ID: L482817**

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

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-11**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.101 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**

**Date Collected: 08/28/17 14:50**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-12**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.096 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**

**Date Collected: 08/28/17 15:35**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-13**

**Matrix: Solid**

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	SEJ	TAL DEN
Total/NA	Analysis	6010C		2			387473	09/13/17 07:24	CRR	TAL DEN

TestAmerica Denver



# Lab Chronicle

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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.078 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**

**Date Collected: 08/29/17 08:35**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-33**

**Matrix: Solid**

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

**Client Sample ID: L282917**

**Date Collected: 08/29/17 09:10**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-34**

**Matrix: Solid**

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

**Client Sample ID: L382917**

**Date Collected: 08/29/17 09:45**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-35**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.171 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**

**Date Collected: 08/29/17 10:05**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-36**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.227 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**

**Date Collected: 08/29/17 10:25**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-37**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.134 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

# Lab Chronicle

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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.164 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

**Client Sample ID: L782917**

**Date Collected: 08/29/17 11:40**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-39**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.049 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**

**Date Collected: 08/29/17 11:55**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-40**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.044 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

**Client Sample ID: L982917**

**Date Collected: 08/29/17 12:30**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-41**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.160 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

**Client Sample ID: L1082917**

**Date Collected: 08/29/17 15:10**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-42**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.257 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

**Client Sample ID: L1182917**

**Date Collected: 08/29/17 16:40**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-43**

**Matrix: Solid**

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

# Lab Chronicle

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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.905 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

**Client Sample ID: L283017**

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

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-58**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.901 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**

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

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-59**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.482 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**

**Date Collected: 08/30/17 11:20**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-60**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.541 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

**Client Sample ID: BL383017**

**Date Collected: 08/30/17 11:25**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-61**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.526 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

**Client Sample ID: BL483017**

**Date Collected: 08/30/17 11:30**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-62**

**Matrix: Solid**

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

# Lab Chronicle

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

TestAmerica Job ID: 280-100940-1

**Client Sample ID: BL583017**

**Date Collected: 08/30/17 11:40**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-63**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.814 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**

**Date Collected: 08/30/17 11:50**

**Date Received: 09/07/17 09:15**

**Lab Sample ID: 280-100940-64**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.402 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



Report for:

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

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

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

**Total Samples with Layer Asbestos Content > 1%:** 4

**Location: 280-100940-1, A182817**

Lab ID-Version‡: 8373424-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 280-100940-2, A282817**

Lab ID-Version‡: 8373425-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 280-100940-3, A382817**

Lab ID-Version‡: 8373426-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 280-100940-4, A482817**

Lab ID-Version‡: 8373427-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b> 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: 280-100940-5, A582817**

Lab ID-Version‡: 8373428-1

Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-6, A682817**

Lab ID-Version‡: 8373429-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-7, A782817**

Lab ID-Version‡: 8373430-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-15, INS182817**

Lab ID-Version‡: 8373431-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
<b>Composite Non-Asbestos Content:</b>	90% Glass Fibers 7% Cellulose
<b>Sample Composite Homogeneity:</b>	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: 280-100940-16, INS282817**

Lab ID-Version‡: 8373432-1

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

**Location: 280-100940-17, PL182817**

Lab ID-Version‡: 8373433-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-18, G182817**

Lab ID-Version‡: 8373434-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-19, G282817**

Lab ID-Version‡: 8373435-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	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: 280-100940-20, G382817**

Lab ID-Version‡: 8373436-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-21, G482817**

Lab ID-Version‡: 8373437-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-22, A182817**

Lab ID-Version‡: 8373438-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-23, A282817**

Lab ID-Version‡: 8373439-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b>	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: 280-100940-24, A382817**

Lab ID-Version‡: 8373440-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 280-100940-25, A482817**

Lab ID-Version‡: 8373441-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 280-100940-26, A582817**

Lab ID-Version‡: 8373442-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 280-100940-27, A682817**

Lab ID-Version‡: 8373443-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b> 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: 280-100940-28, A782817**

Lab ID-Version‡: 8373444-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-29, A882817**

Lab ID-Version‡: 8373445-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-30, A982817**

Lab ID-Version‡: 8373446-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-31, A1082817**

Lab ID-Version‡: 8373447-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b>	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: 280-100940-32, A1182817**

Lab ID-Version‡: 8373448-1

Sample Layers	Asbestos Content
Brown Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-44, G182917**

Lab ID-Version‡: 8373449-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-45, G282917**

Lab ID-Version‡: 8373450-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-46, G382917**

Lab ID-Version‡: 8373451-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	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: 280-100940-47, G482917**

Lab ID-Version‡: 8373452-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-48, PL182917**

Lab ID-Version‡: 8373453-1

Sample Layers	Asbestos Content
Brown Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-49, A183017**

Lab ID-Version‡: 8373454-1

Sample Layers	Asbestos Content
Gray Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-50, A283017**

Lab ID-Version‡: 8373455-1

Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	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".

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‡: 8373456-1

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

**Location: 280-100940-52, BA283017**

Lab ID-Version‡: 8373457-1

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

**Location: 280-100940-53, BA383017**

Lab ID-Version‡: 8373458-1

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

**Location: 280-100940-54, BA483017**

Lab ID-Version‡: 8373459-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material with Paint	ND
<b>Sample Composite Homogeneity:</b>	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: 280-100940-55, BA583017**

Lab ID-Version‡: 8373460-1

Sample Layers	Asbestos Content
Yellow Coating	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-56, BA683017**

Lab ID-Version‡: 8373461-1

Sample Layers	Asbestos Content
Yellow Coating	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-65, INS183017**

Lab ID-Version‡: 8373462-1

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

**Location: 280-100940-66, INS283017**

Lab ID-Version‡: 8373463-1

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

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

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.

‡ 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".

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
<b>Sample Composite Homogeneity:</b>	Good

**Location: 280-100940-68, VG283017**

Lab ID-Version‡: 8373465-1

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

**Location: 280-100940-70, PW183017**

Lab ID-Version‡: 8373467-1

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

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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.

‡ 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".

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
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 280-100940-72, PW383017**

Lab ID-Version‡: 8373469-1

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

**Location: 280-100940-73, PW483017**

Lab ID-Version‡: 8373470-1

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

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

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.

‡ 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".

4955 Yarrow Street  
 Aurora, CO 80002  
 Phone (903) 736-0100 Fax (903) 431-7171

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sample:		Lab Pk:		Carrier Tracking Number:		COC No:																																																																																	
Client Contact:		Phone:		E-Mail:		State of Origin:		Page:																																																																																	
Shipping/Receiving:		Company:		Address:		City:		Page 1 of 6																																																																																	
Company:		E-Mail Pk:		Due Date Requested:		Job #:		280-100940-1																																																																																	
Address:		4955 Yarrow Street,		9/19/2017		Preparation Codes:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Ammonia H - Acetic Acid I - Is J - DI Water K - EDTA L - BDA M - Nitrate N - Nitrite O - As2O3 P - NiCl2AS Q - Na2SO4 R - Na2S2O4 S - H2SO4 T - TSP Deaerated U - Acetone V - MCA W - pH 4.5 Z - Other (Specify):																																																																																	
City:		Aurora		TAT Requested (approx):		Analysis Requested:		001790994																																																																																	
Scale 20:		CO 80002		PO #:		Project #:		28017197																																																																																	
Phone:		Project #:		W.O. #:		Project #:		28017197																																																																																	
Email:		Project #:		W.O. #:		Project #:		28017197																																																																																	
Project Name:		Quanta Pipeline - Lead and Asbestos		SSCAN#:		Project #:		28017197																																																																																	
Site:		SSCAN#:		Project #:		Project #:		28017197																																																																																	
<p><b>Sample Identification - Client ID (Lab ID)</b></p> <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (G/Grabs)</th> <th>Matrix (Plastic, Paper, Other, etc.)</th> <th>Field Notes (See Note 1)</th> <th>Sub (Asbestos - PLM by EPA 600/8-93/116 (price per layer) / Asbestos - PLM by EPA 600/8-93/116 (price per layer))</th> <th>Special Instructions/Notes:</th> </tr> </thead> <tbody> <tr> <td>A182817 (280-100940-1)</td> <td>8/28/17</td> <td>13:15</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>A282817 (280-100940-2)</td> <td>8/28/17</td> <td>13:54</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>A382817 (280-100940-3)</td> <td>8/28/17</td> <td>14:20</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>A482817 (280-100940-4)</td> <td>8/28/17</td> <td>14:40</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>A582817 (280-100940-5)</td> <td>8/28/17</td> <td>15:10</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>A682817 (280-100940-6)</td> <td>8/28/17</td> <td>15:35</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>A782817 (280-100940-7)</td> <td>8/28/17</td> <td>16:15</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>INS182817 (280-100940-15)</td> <td>8/28/17</td> <td>15:59</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>INS282817 (280-100940-16)</td> <td>8/28/17</td> <td>15:55</td> <td>Mountain</td> <td>Solid</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>										Sample ID	Sample Date	Sample Time	Sample Type (G/Grabs)	Matrix (Plastic, Paper, Other, etc.)	Field Notes (See Note 1)	Sub (Asbestos - PLM by EPA 600/8-93/116 (price per layer) / Asbestos - PLM by EPA 600/8-93/116 (price per layer))	Special Instructions/Notes:	A182817 (280-100940-1)	8/28/17	13:15	Mountain	Solid		X		A282817 (280-100940-2)	8/28/17	13:54	Mountain	Solid		X		A382817 (280-100940-3)	8/28/17	14:20	Mountain	Solid		X		A482817 (280-100940-4)	8/28/17	14:40	Mountain	Solid		X		A582817 (280-100940-5)	8/28/17	15:10	Mountain	Solid		X		A682817 (280-100940-6)	8/28/17	15:35	Mountain	Solid		X		A782817 (280-100940-7)	8/28/17	16:15	Mountain	Solid		X		INS182817 (280-100940-15)	8/28/17	15:59	Mountain	Solid		X		INS282817 (280-100940-16)	8/28/17	15:55	Mountain	Solid		X	
Sample ID	Sample Date	Sample Time	Sample Type (G/Grabs)	Matrix (Plastic, Paper, Other, etc.)	Field Notes (See Note 1)	Sub (Asbestos - PLM by EPA 600/8-93/116 (price per layer) / Asbestos - PLM by EPA 600/8-93/116 (price per layer))	Special Instructions/Notes:																																																																																		
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A382817 (280-100940-3)	8/28/17	14:20	Mountain	Solid		X																																																																																			
A482817 (280-100940-4)	8/28/17	14:40	Mountain	Solid		X																																																																																			
A582817 (280-100940-5)	8/28/17	15:10	Mountain	Solid		X																																																																																			
A682817 (280-100940-6)	8/28/17	15:35	Mountain	Solid		X																																																																																			
A782817 (280-100940-7)	8/28/17	16:15	Mountain	Solid		X																																																																																			
INS182817 (280-100940-15)	8/28/17	15:59	Mountain	Solid		X																																																																																			
INS282817 (280-100940-16)	8/28/17	15:55	Mountain	Solid		X																																																																																			
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (Specify):</p> <p>Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements:</p> <p>Sample Disposal (A too may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p>																																																																																									
<p><b>Empty Kit Relinquished by:</b></p> <p>Date/Time: <i>9/8/17 1400</i> Company: <i>Enviro Den</i></p> <p>Received by: <i>[Signature]</i> Date/Time: <i>9/8/17 1400</i> Company: <i>Enviro Den</i></p> <p>Relinquished by: <i>[Signature]</i> Date/Time: <i>9/8/17 1400</i> Company: <i>Enviro Den</i></p> <p>Received by: <i>[Signature]</i> Date/Time: <i>9/8/17 1400</i> Company: <i>Enviro Den</i></p> <p>Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.:</p>																																																																																									

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TestAmerica

## THE LEADER IN ENVIRONMENTAL TESTING

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**TestAmerica**  
THE LEADER IN EMPLOYMENT TESTING

4955 Yarrow Street  
Arvada, CO 80002  
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**TestAmerica Denver**  
4955 Yarrow Street  
Arvada, CO 80002  
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## Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>		Sample:	Lab Ref:	Customer Tracking Number:	CCO No:				
Client Contact:	Project:		Rydybny, Donna R		280-411382-4				
Shipping/Receiving:	Project:		donna.rydybny@testamerica.com	State of Origin:	Page 4 of 6				
Company:			Accreditation Referral (See note):	Colorado					
EMail: lab PMK			NECAP - Oregon		Lab Ref: 280-100940-1				
Address:	Date Date Requested:								
4955 Yarrow Street,	8/19/2017								
City:	TAAR Requested (days):								
Arvada									
State ZIP:									
CO, 80002									
Phone:	PO #:								
Email:	WO #:								
Project Name:	Project #:								
Quanta Pipeline - Lead and Asbestos	28017197								
Site:	SSON#:								
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (G-Grab)</b>	<b>Matrix (Mineral, Organic, Synthetic, etc.)</b>	<b>Field Collected Sample (Yes or No)</b>	<b>Substrate (Yes or No)</b>	<b>Analysis Requested</b>	<b>Special Instructions/Notes:</b>
G382917 (280-100940-46)	8/23/17	10:20		Solid		X			
G482917 (280-100940-47)	8/23/17	10:25		Solid		X			
PL182917 (280-100940-48)	8/23/17	10:30		Solid		X			
A183017 (280-100940-49)	8/30/17	08:40		Solid		X			
A283017 (280-100940-50)	8/30/17	11:10		Solid		X			
BA183017 (280-100940-51)	8/30/17	11:15		Solid		X			
BA283017 (280-100940-52)	8/30/17	11:20		Solid		X			
BA383017 (280-100940-53)	8/30/17	11:25		Solid		X			
BA483017 (280-100940-54)	8/30/17	11:30		Solid		X			
<p>Note: Since laboratory personnel are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis &amp; accreditation compliance upon our subsequent subcontractor. The sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin, please advise the samples must be shipped back to the TestAmerica Laboratory or other TestAmerica will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attached to said compliance to TestAmerica Laboratories, Inc.</p>									
<b>Possible Hazard Identification</b>									
<p><b>Unconfirmed</b></p> <p><b>Deliverable Requested:</b> I, II, III, IV, Other (specify): _____ <b>Primary Deliverable Rank:</b> 2</p>									
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b></p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Dispose By Lab <input type="checkbox"/> Archive For _____ Months</p>									
<b>Special Instructions/CC Requirements:</b>									
<p><b>Empty Kit Requisitioned by:</b> _____ <b>Date:</b> _____ <b>Time:</b> _____ <b>Method of Shipment:</b> _____</p>									
<p><b>Requisitioned by:</b> _____ <b>Date/Time:</b> _____ <b>Company:</b> _____ <b>Received by:</b> _____ <b>Date/Time:</b> _____ <b>Company:</b> _____</p>									
<p><b>Requisitioned by:</b> _____ <b>Date/Time:</b> _____ <b>Company:</b> _____ <b>Received by:</b> _____ <b>Date/Time:</b> _____ <b>Company:</b> _____</p>									
<p><b>Requisitioned by:</b> _____ <b>Date/Time:</b> _____ <b>Company:</b> _____ <b>Received by:</b> _____ <b>Date/Time:</b> _____ <b>Company:</b> _____</p>									
<p><b>Custody Seal Intact:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Custody Seal No.:</b> _____ <b>Custody Temperature(s) °C and Other Remarks:</b> _____</p>									

# TestAmerica

### THE LEADER IN CONFRONTATIONAL TESTING

Phone (303) 736-0100 Fax (303) 461-7171

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### Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>				Sample ID: Client Contact: Shipping/Receiving: Company: EMail: Address: City: State: Zip: Phone: Email: Project Name: Questa Pipeline - Lead and Asbestos Site: SOW:		Sampler: Project: Lab P#: Ryan, Donna R EMail: donna.ryan@tstamerica.com Accreditation Required (See Note): NELAP - Oregon		Carrier Tracking No: State of Origin: Colorado		CQC No: 280-411382-6 Page 5 of 5 Job #: 280-100940-1					
Date Requested: 8/19/2017 Lab Requested (days): 7				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:30		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample ID: PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (280-100940-72) PW483017 (280-100940-73)				Date: 8/20/17		Sample Date: 8/20/17		Sample Time: 15:40		Sample Type: (Compos. Grains)		Matrix: (Type, Brand, Quantity)		Total Number of Containers: 1	
Sample Identification - Client ID (Lab ID) PW483017 (															



## Chain of Custody Record



<b>Client Information</b> Client Contact: Tony Kupilik Company: TTrihydro Corporation Address: 1252 Commerce Drive City: Laramie State: WY 82070 Phone:		Lab PM: Rydberg, Donna R E-Mail: donna.rydberg@lestamericainc.com Carrier Tracking No(s): 280-67249-22759.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 10 DAY PO #: Purchase Order Requested WO #: 17-252W0-L Project #: 28017197 SSOW#:		<b>Analysis Requested</b> Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification A182817 A282817 A382817 A482817 A582817 A682817 A782817		Sample Date 8/28/17 8/28/17 8/28/17 8/28/17 8/28/17 8/28/17	
Sample Type (C=Comp, G=grab) G G G G G G		Sample Time 1315 1354 1420 1440 1510 1535 1615	
Matrix (W=water, S=solid, O=organic) S S S S S S		Field Filtered Sample (Yes or No) X X X X X X	
Perform MS/MSD (Yes or No) X X X X X X		Total Number of Containers X X X X X X	
Special Instructions/Note: 280-100940 Chain of Custody		Special Instructions/Note: 280-100940 Chain of Custody	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify) LEVEL 11		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: T. KUPILIK Relinquished by:		Received by: J. J. Relinquished by:	
Date/Time: 9/16/17 @ 1500 Date/Time:		Date/Time: 9/17/17 0915 Date/Time:	
Company: T. KUPILIK Company:		Company: TAD Company:	
Relinquished by:		Relinquished by:	
Date/Time:		Date/Time:	
Custody Seal No.: A Yes A No		Custody Seal No.: 22,140.1 (PTE) Transferred by 9/17/17	

## Chain of Custody Record

<b>Client Information</b> Client Contact: Tony Kupilik Company: Trihydro Corporation Address: 1252 Commerce Drive City: Laramie State, Zip: WY, 82070 Phone: Email: tkupilik@trihydro.com Project Name: Ovesta Pipeline - Lead and Asbestos Site:		Sampler: KUPILIK Lab PM: Rydberg, Donna R Phone: (307) 745-7474 E-Mail: donna.rydberg@testamericainc.com		Carrier Tracking No(s): COC No: 280-67249-22759.1 Page: 1 of 1 Job #:					
Due Date Requested: TAT Requested (days): 10 DAYS PO #: 17-252 WO-L Purchase Order Requested WO #: 17-252 WO-L Project #: 28017197 SSOW#:		<b>Analysis Requested</b>							
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
L182817	8/28/17	1315	G	S		X			
L282817	8/28/17	1354	G	S		X			
L382817	8/28/17	1420	G	S		X			
L482817	8/28/17	1440	G	S		X			
L582817	8/28/17	1450	G	S		X			
L682817	8/28/17	1535	G	S		X			
L782817	8/28/17	1615	G	S		X			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Method of Shipment:					
Relinquished by: T. KUPILIK		Date/Time: 9/6/17 @ 1500		Received by: [Signature]					
Relinquished by:		Date/Time:		Received by:					
Relinquished by:		Date/Time:		Received by:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



## Chain of Custody Record

<b>Client Information</b> Client Contact: Tony Kupilik Company: Trihydro Corporation Address: 1252 Commerce Drive City: Laramie State, Zip: WY, 82070 Phone: _____ Email: tkupilik@trihydro.com Project Name: Questa Pipeline - Lead and Asbestos Site: _____		Lab PM: _____ Rydberg, Donna R E-Mail: donna.rydberg@testamericainc.com Carrier Tracking No(s): <b>280-67249-221573</b> Page: Page 1 of 1 Job #: _____		<b>Analysis Requested</b> Due Date Requested: _____ TAT Requested (days): <b>10 DAY</b> PO #: _____ WO #: <b>17-252240-L</b> Project #: <b>28017197</b> SSOW#: _____													
<b>Sample Identification</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type</b> (C=Comp, G=grab)		<b>Matrix</b> (Weir, Solid, On-site, BT=Tissue, A=Air)		<b>Field Filtered Sample (Yes or No)</b>		<b>Perform MS/MSD (Yes or No)</b>		<b>Total Number of Containers</b>		<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
<b>INS182817</b>		<b>8/28/17</b>		<b>1535</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>ASBESTOS</b>	
<b>INS282817</b>		<b>1535</b>		<b>1535</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>	
<b>PL182817</b>		<b>1535</b>		<b>1535</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>	
<b>G182817</b>		<b>1450</b>		<b>1450</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>	
<b>G282817</b>		<b>1450</b>		<b>1450</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>	
<b>G382817</b>		<b>1640</b>		<b>1640</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>	
<b>G482817</b>		<b>1640</b>		<b>1640</b>		<b>G</b>		<b>S</b>		<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>	
<b>Special Instructions/Note:</b>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____															
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify) <b>LEV EL 1</b> Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <b>T. KUPILIK</b> Date/Time: <b>9/6/17 @ 1500</b> Company: <b>JHC</b> Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____															



## Chain of Custody Record

<b>Client Information</b> Client Contact: Tony Kuplik Company: Trihydro Corporation Address: 1252 Commerce Drive City: Laramie State, Zip: WY, 82070 Phone: (307) 745-7474 Email: tkuplik@trihydro.com Project Name: Questa Pipeline - Lead and Asbestos Site:		Sampler: Kuplik Lab PM: Rydberg, Donna R E-Mail: donna.rydberg@testamericainc.com Carrier Tracking No(s):		COC No: 4 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 10 DAY PO #: 17252W0-L WO #: 28017197 Project #: 28017197 SSOW#:		<b>Analysis Requested</b>			
Sample Identification A182917 A282917 A382917 A482917 A582917 A682917 A782917 A882917 A982917 A1082917 A1182917		Sample Date 8/29/17	Sample Time 0835	Sample Type G-Grab	Matrix (Wet, Dry, Solid, On-site, Off-site)
Preservation Code:		Total Number of Containers			
Special Instructions/Note:		Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by:		Special Instructions/QC Requirements:			
Relinquished by: T. Kuplik Relinquished by:		Method of Shipment:			
Relinquished by:		Date/Time: 9/17/17 0910 Company: TAD			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			

# Chain of Custody Record

<b>Client Information</b> Client Contact: Tony Kuplik Company: Trihydro Corporation Address: 1252 Commerce Drive City: Laramie State, Zip: WY, 82070 Phone: Email: tkuplik@trihydro.com Project Name: Questa Pipeline - Lead and Asbestos Site:		Sampler: KUPLIK Lab PM: Rydberg, Donna R Phone: (307) 745-7474 E-Mail: donna.rydberg@testamericainc.com		Carrier Tracking No(s): COC No: 5 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 10 DAY PO #: 17-252WO-L WO #: 28017197 Project #: 28017197 SSOW#:		<b>Analysis Requested</b> Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
<b>Sample Identification</b> Sample ID Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=other) Preservation Code:		Total Number of containers Special Instructions/Note:			
L102917 L282917 L382917 L482917 L582917 L682917 L782917 L882917 L982917 L1082917 L1182917		8/29/17 0835 0910 0945 1005 1025 1105 1140 1155 1230 1510 1640		G S S S S S S S S S S	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify) L EVEL 11		Special Instructions/QC Requirements:			
Empty Kit Relinquished by: T. KUPLIK Relinquished by: T. KUPLIK Relinquished by:		Method of Shipment:			
Date/Time: 9/16/17 @ 1500 Date/Time:		Date/Time: 9/17/17 0910 Date/Time:			
Date/Time:		Date/Time:			
Custody Seals Intact Yes No		Cooler Temperature(s) °C and Other Remarks:			



## Chain of Custody Record

Client Information		Lab PM		Carrier Tracking Not(s)		COC No:			
Tony Kuplik		Kuplik		Rydberg, Donna R		6			
Company: Trihydro Corporation		Phone: (303) 745-7474		E-Mail: donna.rydberg@testamericainc.com		Page 1 of 1			
Address: 1252 Commerce Drive		Due Date Requested:		Analysis Requested		Job #:			
City: Laramie		TAT Requested (days): 10 DAY							
State, Zip: WY, 82070		PO #:							
Phone:		WO #:							
Email: tkuplik@trihydro.com		17-252WD-L							
Project Name: Questa Pipeline - Lead and Asbestos		Project #:							
Site:		28017197							
SSOW#:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	ASBESTOS	Total Number of containers	Special Instructions/Note:
G182917	8/29/17	0920	G	S					
G282917		0925			X				
G382917		1020			X				
G482917		1025			X				
PL182917		1030			X				
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify) LEVEL 1									
Empty Kit Relinquished by: Date: 9/6/17 @ 1500									
Relinquished by: T. KUPLIK Company: THC									
Relinquished by: Date/Time: 9/6/17 0915									
Relinquished by: Date/Time: 9/6/17 0915									
Relinquished by: Date/Time: 9/6/17 0915									
Custody Seal No.: △ Yes △ No									
Custody Seal Intact: △ Yes △ No									
Cooler Temperature(s) °C and Other Remarks:									

## Chain of Custody Record

<b>Client Information</b> Client Contact: Tony Kupilik Company: Trihydro Corporation		Lab PM: Rydberg, Donna R E-Mail: donna.rydberg@testamericainc.com		Carrier Tracking No(s): 7 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 10 DAY PO #: 17-252W0-L WO #: 28017197 Project #: 28017197 SSOW #:		<b>Analysis Requested</b>			
Address: 1252 Commerce Drive City: Laramie State, Zip: WY, 82070 Phone:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification A183017 A283017 B183017 B283017 B383017 B483017 B583017 B683017		Sample Date 8/30/17 1110 1115 1120 1125 1130 1140 1150			
Sample Type (C=Comp, G=grab) G S		Matrix (W=water, S=solid, O=unknown) S			
Sample Time 0940 1110 1115 1120 1125 1130 1140 1150		Field Filtered Sample (Yes or No) ASBESTOS YES YES YES YES YES YES YES			
Perform MS/MSD (Yes or No) YES YES YES YES YES YES YES		Total Number of Containers 1 1 1 1 1 1 1 1			
Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:		Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) LEV-EL 11		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Empty Kit Relinquished by: Relinquished by: T. KUPILIK Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/17 @ 1500 Date/Time: Date/Time: Date/Time:			
Relinquished by: Relinquished by: Relinquished by:		Date/Time: 9/6/1			



## Chain of Custody Record

<b>Client Information</b> Client Contact: Tony Kupilik Company: Trihydro Corporation		Lab PM: Rydberg, Donna R E-Mail: donna.rydberg@testamericainc.com		Carrier Tracking No(s): Page: 1 of 1 Job #:		COC No: 8	
Address: 1252 Commerce Drive City: Laramie State, Zip: WY, 82070 Phone:		Due Date Requested: TAT Requested (days): 10 DAY PO #:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email: ikupilik@trihydro.com Project Name: Questia Pipeline - Lead and Asbestos Site:		WO #: 17-252W0-L Project #: 28017197 SSOW#:		Total Number of Containers		Special Instructions/Note:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note
L183017	8/30/17	0940	G	S			
L283017		1110					
B3L183017		1115					
B3L283017		1120					
B3L383017		1125					
B3L483017		1130					
B3L583017		1140					
B3L683017		1150					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:				Method of Shipment:			
Relinquished by: J. KUPILIK		Date/Time: 9/16/17 @ 1500		Received by: [Signature]		Date/Time: 9/17/17 0515	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Cooler Temperature(s) °C and Other Remarks:			



## Login Sample Receipt Checklist

Client: Trihydro Corporation

Job Number: 280-100940-1

Login Number: 100940

List Source: TestAmerica Denver

List Number: 1

Creator: True, Joshua A

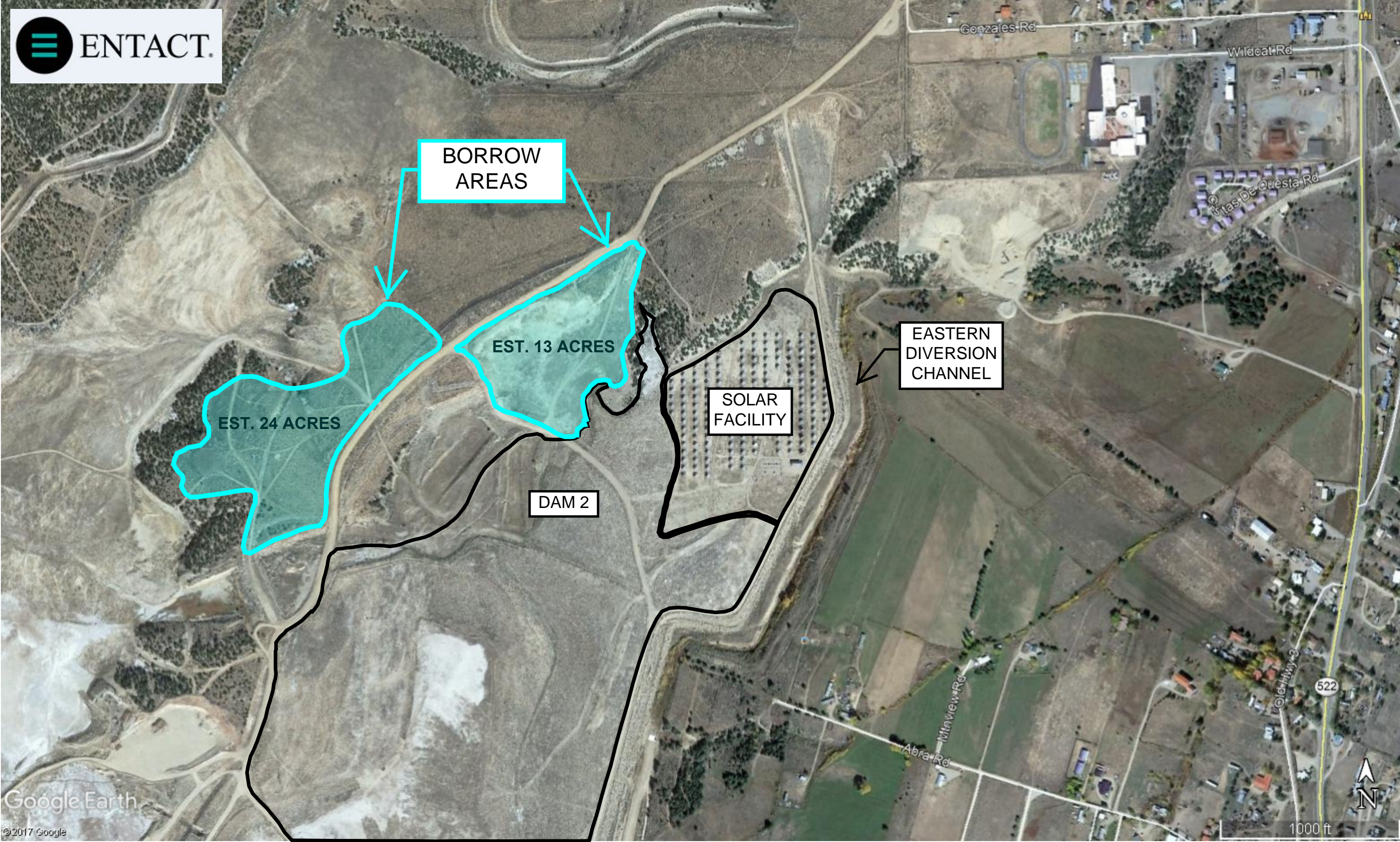
Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**APPENDIX B**

**BORROW AREA MAP**







## **APPENDIX C**

### **EXAMPLE FIELD AND HEALTH AND SAFETY FORMS**

# Pre-Fieldwork Safety-Readiness Review Form

For all field projects



Business unit name: \_\_\_\_\_  
 Client name: \_\_\_\_\_  
 Project name and number: \_\_\_\_\_  
 Date review performed: \_\_\_\_\_  
 Scheduled project-start date: \_\_\_\_\_  
 Scheduled project-end date: \_\_\_\_\_

## Names and initials of required participants:

1. BUL, BUM, or TL: \_\_\_\_\_
2. Project Director: \_\_\_\_\_
3. Project Manager: \_\_\_\_\_
4. Field Supervisor: \_\_\_\_\_
5. Safety Officer/Lead: \_\_\_\_\_

## Names and initials of other participants:

1. Project-team members: \_\_\_\_\_
2. Contractor(s): \_\_\_\_\_
3. Subcontractor(s): \_\_\_\_\_

Work-Scope Tasks	Work-Related Hazards (refer to the 3x5 Hazard-Assessment Triangle)	Anticipated Hazard-Mitigation Measures

Pre-Fieldwork Safety-Readiness Review Checklist	Yes	No	N/A	CAN
1 Has the project team secured the necessary safety and other work permits required to complete the proposed work?				
2 Has a project-specific or site-specific HASP been prepared and/or updated, and have all project-team members reviewed the HASP?				
3 If a contractor(s) will be used on this project, have they prepared and/or updated their HASP and JSA forms?				
4 Has the project team been reminded that JSAs need to be prepared by the project's subject-matter experts, reviewed by all members of the project team, and marked up where appropriate before starting and during work each day?				
5 If this project involves one or more lone workers, is a plan to manage lone worker safety in place and communicated with the project team?				
6 Do we know if the project site has reliable cell-phone coverage? <i>[If not, request a phone booster from Autumn Bainer.]</i>				
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?				
9 Have team members—including contractors and subcontractors—reviewed and understand the project-site hazards and requirements?				
10 Do all project-team members—including contractors and subcontractors—understand 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?				
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 all team members completed the required training?				
14 Have SSE mentors been assigned and provided with instructions for overseeing each SSE team member?				
15 Is a plan in-place and assignments made to provide oversight of "low-use" or special contractor/subcontractor team members?				
16 Have topics been developed and assignments made for the daily project-safety meetings, including discussing potential daily- and task-specific hazards?				
17 Has the plan for performing and reporting observations, near misses, and incidents been communicated?				
18 Has the project team been reminded that journey-management plans (JMPs) should be used during the project where appropriate?				
19 Is a traffic-management plan needed for this project and has it been completed and communicated to the project team?				
20 Have procedures for work in or near hazardous areas (e.g., trenches, confined spaces, active units) been communicated?				
21 Have procedures for work in or around equipment (e.g., lockout / tag out, swinging, rotating, backing) been communicated?				
22 Has the Trihydro Excavation, Drilling, and Utility-Locating Checklist been completed for each drilling/excavation project?				
23 Have all employees expecting to oversee or perform drilling/excavation work completed the Trihydro "Subsurface Utility Location and Excavation Safety Best Practices" training session?				
24 Have utility locates been assigned and/or performed in accordance with Trihydro and client procedures?				
25 Is a plan in place for communicating, managing, and reporting changed conditions (e.g., hazards, weather, team roles)?				
26 Is a plan in place for transitioning and training changes in personnel on this project?				
27 Has the project team assessed potential task- or site-specific hazards and developed a plan(s) to eliminate or mitigate the hazards?				
28 Is a BUL, BUM, TL, or Senior Manager scheduled to be on site for the onboarding, kickoff, and initial stages of each major field project (e.g., projects involving subcontractors, complex or different work types, > one week duration, etc.)? If so, please indicate the name of the BUL, BUM, TL, or Senior Manager and the date she or he is scheduled to be on site in the "Review / Non-CAN Item Comments" box below.				
29 Have all contractors/subcontractors been evaluated, qualified, selected, and approved by the BUL based on Trihydro and/or client-specific requirements?				
30 Is a safety audit with a Senior Manager planned for the early stages of all major field projects? If so, please indicate the Senior Manager's name and the date he or she plans to perform the safety audit in the "Review / Non-CAN Item Comments" box below.				

## Findings / Corrective-Action Needed (CAN) Summary

CAN Item No. (i.e., 1 through 30 from the checklist above)	Description of CAN Item	Responsible Person	Target Date	Completed Date	Initials

## Review / Non-CAN Item Comments:

## 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](mailto: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 Safety Manager

10/25/2012

2. Torrey Fox

Geologist

6/10/11

3.

## Personal Protective Equipment (PPE) Needed:

### Eye and Face Protection

☐ Safety Glasses

☐ Face Shield

☐ Chemical Goggles

### Head Protection

☐ Hard Hat

### Hearing Protection

☐ Ear Plugs

☐ Ear Muffs

### Hand Protection

☐ Industrial Work Gloves

☐ Chemical Resistant Gloves

☐ Laceration Resistant Gloves

### Foot Protection

☐ Leather Boots

☐ Steel-Toed Boots

☐ Chemical Resistant Boots

### Water Safety

☐ Personal Flotation Device

☐ Waders

☒ **Other:** Fire extinguisher

☒ **Other:** First aid/vehicle kit

### Body Protection

☐ Fire Retardant Coveralls

☐ Poly-coated Tyvek Coveralls

☐ Chemical Resistant Coveralls

☐ Chemical Resistant Apron

☐ Reflective Safety Vest

☐ Cooling Vest

☐ Long sleeved shirt

### Biological Protection

☐ Snake Gaiters

☐ Sunscreen

☐ Insect Repellent

### Hazardous Atmosphere Protection

☐ Air Monitoring Equipment

☐ Ventilation Fan

☐ Level C

☐ Level B (contact H&S dept.)

☐ Level A (contact H&S dept.)

### Decontamination Materials

☐ Equipment Decontamination

☐ Personnel Decontamination

☒ **Other:** GOAL cones

### Fall Protection

☐ Barriers/Guard Rails

☐ Safety Net

☐ Personal Fall Arrest System

### Respiratory Protection

☐ Half-Face Air Purifying Respirator

☐ Full-Face Air Purifying Respirator

☐ Chemical Cartridge

☐ Particulate Filter

☐ Cartridge/Filter Combo

☐ Ammonia Cartridge

☐ H2S Escape Cartridge

☐ Asbestos Filter (P-100)

☐ Powered Air Purifying Respirator (PAPR) (contact H&S dept.)







☐ Supplied Air Respirator (SAR) (contact H&S dept.)









☐ Self-Contained Breathing Apparatus (SCBA) (contact H&S dept.)









☐ **Other:**



☐ **Other:**



Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
Routine or non-routine journey management plan (JMP) – check (all drivers)				x	A. Personal Injury (Gravity) B. Property damage or physical injury (Motion)	A. Check the JMP before proceeding to the vehicle. B. 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)				x	A. Vehicle failure; Accident or injury (Gravity) (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	
4. Pre vehicle entry				x	A. Personal Injury or accident;	A. GOAL: before entering your	

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
				x			
Configure seating and controls and lock doors (all drivers)				x	A. Personal Injury Visibility; poor driver ergonomics and/or poor driver control (Motion)	A. Adjust seating to a comfortable position and so that you can easily reach the pedals and steering wheel. <ul style="list-style-type: none"> <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. <ul style="list-style-type: none"> <li>• After starting, check all gauges for proper temperatures, pressures, etc.</li> </ul>	
Pulling away from parked area (all drivers)		x		x	A. Collision with other vehicles, objects or persons (Gravity) (Motion)	A. Check mirrors and over the shoulder before pulling away. <ul style="list-style-type: none"> <li>• Vehicle should be situated so the first movement is forward, however if backing, either use a spotter or blow horn to warn others.</li> <li>• Proceed cautiously.</li> </ul>	
Driving (all drivers)		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. <ul style="list-style-type: none"> <li>• Obey all laws of the land as well as site procedures.</li> </ul>	

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
						<p>Follow posted speed limit.</p> <ul style="list-style-type: none"> <li>• Be prepared to 'expect the unexpected'. You never know what someone else (or animals) might do.</li> <li>• NEVER drive under the influence of drugs or alcohol.</li> <li>• Follow posted signs at other locations.</li> <li>• Never operate the vehicle if you are abnormally tired.</li> <li>• Cell phone usage is prohibited while driving a vehicle, including hands free devices such as headset and speaker phones.</li> <li>• Implement 'first move forward' by backing into locations upon arrival.</li> <li>• Be observant of pedestrians (main field office area) and other traffic around you.</li> <li>• 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).</li> <li>• Pull off the road if necessary during bad weather.</li> </ul> <p>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.</p>	
Parking (all drivers)	   			   	<p>A. Pedestrian collision / Property damage(Gravity)(Motion)</p>	<p>A. Use pull through parking spots when available</p> <ul style="list-style-type: none"> <li>• Use signals before pulling from curb and during any change of lane or turn</li> </ul>	

Job Steps	Hazard(s)				Potential Hazard(s)	Critical Action(s)	Responsible Person
						<ul style="list-style-type: none"> <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> </ul>	
Post drive (all drivers)		<div>x</div>		<div>x</div>	A. Personal Injury / Property damage (Gravity)(Motion)	A. Report vehicle problems to company representative or rental car agency.	



Date \_\_\_\_\_

Date

[illegible]

**END OF DAY**

**REVISIONS TO JSA**  
**(Any tasks that were “dirtied up”)**

Date	Job Step #	REVISION	Does JSA need to be updated permanently?		Responsible Person
			Yes	No	



# DAILY TAILGATE SAFETY MEETING



NOTE: A new tailgate meeting must be conducted if conditions, location, or personnel change.

Date: \_\_\_\_\_ Time: \_\_\_\_\_ ☐ a.m. ☐ p.m. Location: \_\_\_\_\_ (city, state)

Project Name: \_\_\_\_\_ Client: \_\_\_\_\_

Current Objective/Description: \_\_\_\_\_

## Commitment to Safety

1. 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
2. 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.
4. I will drive defensively and "Safely for My Family," abiding by Trihydro and client policies and applicable laws and regulations.
5. I will "slow down" appropriately to work at a pace that will allow me and others to complete each task efficiently and safely.
6. 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:

- |   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> Hot Work             | <input type="checkbox"/> Elevated/overhead work | <input type="checkbox"/> Boat / over-water operations                           | <input type="checkbox"/> Work involving equipment within 15' of active overhead electrical line or pole supporting an electric line |
| <input type="checkbox"/> LOTO                 | <input type="checkbox"/> Excavations - any      | <input type="checkbox"/> Demolition, removal of pipelines and buried structures |   |
| <input type="checkbox"/> Confined Space Entry | <input type="checkbox"/> Drilling - any         |   |   |

## Associated and Identified Hazards:

- |  |   |   |   |
|--|---|---|---|
| <input type="checkbox"/> Abrasions, cuts, scrapes      | <input type="checkbox"/> Earthquake           | <input type="checkbox"/> High-pressure processes    | <input type="checkbox"/> Pinch points         |
| <input type="checkbox"/> Allergies (self & co-workers) | <input type="checkbox"/> Electrical           | <input type="checkbox"/> High-temperature processes | <input type="checkbox"/> Power tools          |
| <input type="checkbox"/> Asbestos                      | <input type="checkbox"/> Equipment failure    | <input type="checkbox"/> High wind                  | <input type="checkbox"/> Pulled into          |
| <input type="checkbox"/> Biological                    | <input type="checkbox"/> Ergonomic            | <input type="checkbox"/> Laceration                 | <input type="checkbox"/> Radiation/X-ray      |
| <input type="checkbox"/> Buried utilities              | <input type="checkbox"/> Excavations in area? | <input type="checkbox"/> Lightning                  | <input type="checkbox"/> Security             |
| <input type="checkbox"/> Burn hazards                  | <input type="checkbox"/> Falling              | <input type="checkbox"/> Loud noise                 | <input type="checkbox"/> Severe weather       |
| <input type="checkbox"/> Chemical exposure             | <input type="checkbox"/> Fire/explosion       | <input type="checkbox"/> Machine guarding           | <input type="checkbox"/> Scaffolds            |
| <input type="checkbox"/> Cold stress                   | <input type="checkbox"/> H <sub>2</sub> S     | <input type="checkbox"/> Motor vehicle crash        | <input type="checkbox"/> Slips, trips, falls  |
| <input type="checkbox"/> Compressed gases              | <input type="checkbox"/> Hand injury          | <input type="checkbox"/> No locking/fixed blades    | <input type="checkbox"/> Subsurface utilities |
| <input type="checkbox"/> Crane or lifting equipment    | <input type="checkbox"/> Heat stress          | <input type="checkbox"/> Overexertion               | <input type="checkbox"/> Traffic              |
| <input type="checkbox"/> Drilling in area?             | <input type="checkbox"/> Heavy equipment      | <input type="checkbox"/> Overhead utilities         | <input type="checkbox"/> Water                |
|  |   | <input type="checkbox"/> Pedestrian                 | <input type="checkbox"/> Other: _____         |

## See it! Identify Current Objective Hazards:

### Assess Trihydro's 3 Most Serious Risks

- |  |  |
|--|--|
|  | <input type="checkbox"/> Traffic/Heavy Equipment |
|  | <input type="checkbox"/> Hazardous Atmosphere    |
|  | <input type="checkbox"/> Utility Contact         |

### Assess Trihydro's 5 Most Frequent Risks

- |  |  |
|--|--|
|  | <input type="checkbox"/> Hand Injuries       |
|  | <input type="checkbox"/> Lifting             |
|  | <input type="checkbox"/> Biological Hazards  |
|  | <input type="checkbox"/> Chemical Exposure   |
|  | <input type="checkbox"/> Slips, trips, falls |

### Other Hazards

- |  |   |
|--|---|
|  | <input type="checkbox"/> Weather            |
|  | <input type="checkbox"/> Working at Heights |

**Personal Protective Equipment (PPE):**

<input type="checkbox"/> Hard hat	<input type="checkbox"/> Arm sleeves	<input type="checkbox"/> Dust mask	Other special equipment: <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
<input type="checkbox"/> Safety glasses	<input type="checkbox"/> High visibility vest	<input type="checkbox"/> Respirator	
<input type="checkbox"/> Safety toed boots	<input type="checkbox"/> Rain gear	Cartridges/filters: <input type="checkbox"/> VOC/H <sub>2</sub> S escape	
<input type="checkbox"/> Ear plugs (as needed)	<input type="checkbox"/> Rubber boots	<input type="checkbox"/> H <sub>2</sub> S monitor	
<input type="checkbox"/> Face shield	<input type="checkbox"/> SCBA	<input type="checkbox"/> Bump test	
<input type="checkbox"/> Fall protection	<input type="checkbox"/> Snake chaps	<input type="checkbox"/> FRCs/Nomex	
<input type="checkbox"/> Gloves (as needed)	<input type="checkbox"/> Sunscreen (as needed)	<input type="checkbox"/> Tyvek®	
		<input type="checkbox"/> Insect repellent	

\*Do not apply DEET to FRCs\*

**Before Beginning Work:**

<input type="checkbox"/> Sign in and out of process unit	<input type="checkbox"/> N/A	<input type="checkbox"/> Review the JSA and "dirty up" if necessary
<input type="checkbox"/> HASP reviewed & acknowledged		<input type="checkbox"/> Weather forecast: <input type="checkbox"/> Hot <input type="checkbox"/> Cold <input type="checkbox"/> Inclement
<input type="checkbox"/> Locate the nearest evacuation point and a secondary location		Wind Direction: _____
<input type="checkbox"/> Identify the nearest fire extinguisher, eyewash station, first aid kit, and Material Safety Data Sheets (MSDS)		<input type="checkbox"/> Employee(s) are wearing proper PPE
<input type="checkbox"/> Identify CPR/AED/first aid certified employees		<input type="checkbox"/> Perform a "self check" on each personal H <sub>2</sub> S monitor
<input type="checkbox"/> If lone worker, implement lone worker procedures	<input type="checkbox"/> N/A	<input type="checkbox"/> Perform a Work-Site Self Assessment (WSSA)
<input type="checkbox"/> Identify SSE, visitor(s), or guest(s)	<input type="checkbox"/> N/A	<input type="checkbox"/> Review the dashboard emergency flyer for the specific site; place in a visible location inside vehicle
<input type="checkbox"/> Determine and acquire necessary permits	<input type="checkbox"/> N/A	<input type="checkbox"/> Barricade work zone (as needed)
Permit required: _____		<input type="checkbox"/> Review WorkCare Injury Accident Program card
		<input type="checkbox"/> PPE Action Levels (PID: 10ppm)

**Safe Vehicle Use:**

<input type="checkbox"/> Pre-inspection complete	<input type="checkbox"/> Mileage sheet filled out	<input type="checkbox"/> GOAL sticker in window
<input type="checkbox"/> Seat belt	<input type="checkbox"/> No cell phones used while driving	<input type="checkbox"/> Spotter used (if available)
<input type="checkbox"/> Follow all speed and traffic rules	<input type="checkbox"/> Parked in a safe location	<input type="checkbox"/> First move forward, backed in
<input type="checkbox"/> Emergency brake used	<input type="checkbox"/> Orange cone used	<input type="checkbox"/> Load secured in vehicle
<input type="checkbox"/> Keys left in vehicle	<input type="checkbox"/> Chock tires (if needed)	<input type="checkbox"/> 3D-Driving (every 2 years)
<input type="checkbox"/> Trailer Safety Inspection form	<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____

**Site-Specific Comments:** \_\_\_\_\_**Positive Reinforcement (R+):** \_\_\_\_\_**Signatures:**

Meeting Conducted By: \_\_\_\_\_ (designated project on-site safety responder) Company: \_\_\_\_\_

Printed Name	Signature	Company	Attended Mid-Day Safety Focus	Is this worker new on-site?
1.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

# JOURNEY MANAGEMENT PLAN



Date: \_\_\_\_\_ Project Number: \_\_\_\_\_ Driver: \_\_\_\_\_

Destination: \_\_\_\_\_ Driver Cell Number: \_\_\_\_\_

Departure Time: \_\_\_\_\_ Anticipated Arrival Time: \_\_\_\_\_

Total Hours (not to exceed 16 hours): \_\_\_\_\_ = Work Hrs \_\_\_\_\_ + Driving Hrs \_\_\_\_\_

Plan the journey and notify personnel at destination of your plans. Notify arrival contact if you will not arrive at scheduled time. Keep a copy of this plan with you. Trihydro's main phone number is 307-745-7474. Normal business hours are 8am-5pm, M-F.

**In case of an emergency or incident, contact the Health & Safety Response Team at (307) 755-4888.**

## Purpose of Trip

## Hazards

## Pre-Trip Questions

Is this trip necessary? ☐ Yes ☐ No

Is there an alternative that does not involve 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 ☐ Construction ☐ Paved Road ☐ Mixed Conditions

**Night Driving:** ☐ Yes ☐ No Is it essential? ☐ Yes ☐ No

**Vehicle:** ☐ Fleet Vehicle ☐ Rental Vehicle ☐ Personal Vehicle

Make\*: \_\_\_\_\_ Model\*: \_\_\_\_\_ Year\*: \_\_\_\_\_ Color\*: \_\_\_\_\_

VIN\* or Fleet Number: \_\_\_\_\_ License Plate State/Number\*: \_\_\_\_\_

Condition: ☐ Satisfactory

Vehicle Inspection Form Completed? ☐ 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.*

<b>For Overnight Stays</b>	Hotel Name: _____	Telephone: _____
	City: _____	State: _____
<b>Route Planned</b>	(Auto route, train information, and/or flight information): <input type="checkbox"/> Route/Information Attached Separately <input type="checkbox"/> Map Attached Separately	
<b>Unconventional Travel</b>		
<input type="checkbox"/> Helicopter	Verify the following: <ul style="list-style-type: none"><li>Name is on the aircraft manifest</li><li>Pilot performs safety briefing prior to takeoff</li><li>Hats are not worn on flight line</li><li>Do not approach aircraft from the rear; approach from front quadrant or side</li><li>Stay clear of tail rotor</li></ul>	
<input type="checkbox"/> Private Aircraft	Verify the following: <ul style="list-style-type: none"><li>Name is on the aircraft manifest</li><li>Pilot performs safety briefing prior to takeoff</li><li>Hats are not worn on flight line</li><li>Do not approach aircraft from the rear; approach from front quadrant or side</li></ul>	
<input type="checkbox"/> Watercraft	Verify the following: <ul style="list-style-type: none"><li>Registration number is on the watercraft manifest</li><li>Captain performs safety briefing prior to launch</li><li>Personal flotation devices are available/worn</li><li>Notify supervisor of vessel number</li></ul>	
<input type="checkbox"/> Other:		

Supervisor/PM Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Employee site arrival: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Employee site departure: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Employee home arrival: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_