



Report Version 6

Hazardous Materials Initial Site Assessment (ISA)

May 1, 2020

District: Dallas

CSJs: 1059-02-002: FM 156 in Krum to Mausch Branch Road

1059-01-047: Mausch Branch Road to IH 35 in Denton

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

Hazardous Materials Initial Site Assessment (ISA) Report

This ISA complies with the Federal Highway Administration's (FHWA's) policy dealing with hazardous materials discussed in FHWA's *Supplemental Hazardous Waste Guidance* (January 16, 1997) located at <http://www.environment.fhwa.dot.gov/guidebook/vol1/doc7b.pdf>.

FHWA's policy emphasizes three objectives: 1) identify and assess potentially contaminated sites early in project development, 2) coordinate early with federal/ state/ local agencies to assess the contamination and the cleanup needed; and 3) determine and implement measures early to avoid or minimize involvement with substantially contaminated properties.

In addition, completing the ISA will aid in identifying hazardous material issues early, avoiding construction delays, and reducing the department's liability associated with the purchase of contaminated right of way.

Maintain a copy of the completed ISA report with all applicable attachments in the project file.

For additional information, refer to TxDOT's online manual: *Hazardous Materials in Project Development*: <http://onlinemanuals.txdot.gov/txdotmanuals/haz/index.htm> and the Hazardous Materials Toolkit Site: <http://www.txdot.gov/inside-txdot/division/environmental/compliance-toolkits/haz-mat.html>

Abbreviations and Acronyms

CALF	Closed and Abandoned Landfill
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
EA	Environmental Assessment
EIS	Environmental Impact Statement
ECOS	Environmental Compliance Oversight System
ERNS	Emergency Response Notification System
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HAZMAT	Hazardous Materials
MS4	Municipal Separate Storm Sewer System
MSWLF	Municipal Solid Waste Landfill
NPL	National Priorities List
RCRA	Resource Conservation and Recovery Act
ROW	Right of Way
SEMS	Superfund Enterprise Management System
TCEQ	Texas Commission on Environmental Quality
TRRC	Texas Railroad Commission
US	United States
USGS	United States Geological Survey
VCP	Voluntary Cleanup Program

TxDOT Hazardous Materials Initial Site Assessment (ISA) Report

Project Information

CSJ No: 1059-01-047 & 1059-02-002	City: Krum, Denton	Zip Code: 76249, 76207	County: Denton
HWY: FM 1173	Limits: From FM 156 to Interstate Highway (IH) 35		

Section 1: Identify Previously Completed Environmental Site Assessments, Known Hazmat Conditions, Preliminary Project Design, and Right-of-Way Requirements

Note: Obtain information/comments from design, right-of-way, and/or environmental staff. Attach maps and/or details as appropriate.

<input type="checkbox"/> Yes	Are there any previous environmental assessments, testing, or studies performed within the proposed project area related to contamination issues (to include Phase I ESAs)? If yes, explain here if there are any concerns to the proposed project:
<input type="checkbox"/> No	
<input checked="" type="checkbox"/> Unknown	
<input checked="" type="checkbox"/> Yes	Have the project schematics and/or plan-profile sheets (if available) been reviewed?* Look for substantial excavations (including utilities and storm sewer designs), new ROW and easements, and bridge demolitions or renovations.
<input type="checkbox"/> No	

* For consultants: this information shall be supplied by TxDOT.

Section 2: Demolition and Renovation Information Related to Asbestos and Lead-Containing-Paint

☒ Yes ☐ No Are there proposed bridges or building demolitions or renovations for this project?

Note: If "Yes" is selected, buildings or structures being acquired through the acquisition process are assessed and mitigated for asbestos, as needed, within the ROW process according to the TxDOT ROW Manual ROW Vol. 6 Miscellaneous -Chapter 1 Section 5. Bridge structures being demolished or renovated are assessed and mitigated for asbestos and lead-containing-paint, as needed, within the construction process according to Standard Specification Item 6.10 (and applicable Provisions), and the TxDOT guidance document: Guidance for Handling Asbestos in Construction Projects, dated January 26, 2007.

Section 3: Project Screening

Note: Section 3.1 is only applicable for Categorically Excluded (CE) projects. If you are uncertain of the project type, select "No" and continue to Section 3.2.

Section 3.1 Determine if the proposed project has a low potential to encounter contamination. Refer to the preliminary schematics for project limits and internet-based maps for surrounding land use.

<input type="checkbox"/> Yes	Are the limits of the proposed project within a historically undeveloped area and outside the boundaries of a designated MS4 permitted area? Historically undeveloped areas are locations where no commercial buildings are located within one-half (0.5) miles of the proposed project limits and the surrounding land use is historically agricultural, forest, or ranch lands.
<input checked="" type="checkbox"/> No or an EA or EIS Project	

If "Yes" is selected, the ISA is complete. The proposed project has a low potential to encounter contamination. Complete Sections 9 and 10 of this ISA and maintain a copy and all applicable attachments in the project file.

If "No" is selected, proceed to Section 3.2 of this ISA.

Section 3.2

Note: Determine if the project includes any of the activities listed below:

<input checked="" type="checkbox"/> Yes	Project Excavations: Will the work consist of substantial excavation operations. Substantial excavation includes, but is not necessarily limited to:
<input type="checkbox"/> No	

- Underpass construction,
- Storm sewer installations, and
- Trenching or tunneling that would require temporary or permanent shoring.

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Dewatering of Groundwater: Are there proposed de-watering operations. If yes, what is the estimated depth to groundwater?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Encroachments: Are there known or potential encroachments into the project area? Encroachments include soil and groundwater contamination, dump sites, tanks, and other issues in the ROW.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ROW and Easements: Are there any acquisitions of new ROW, easements, temporary construction easements planned for the project?

3.3 Complete the appropriate box below:

- ☒ If Section 3.2 contains any "Yes" answers, please proceed to Section 4.
- ☐ If Section 3.2 contains all "No" answers, proceed to Section 6, Site Survey. Please perform a site survey documenting the results in Section 6 and then mark the appropriate box below. If a Phase I ESA has been prepared for this project, you may use the applicable site survey information from the Phase I ESA.
- ☐ The site survey did not identify evidence of any environmental concerns listed in Section 6. The ISA is complete. Complete Sections 9 and 10 and maintain a copy of the ISA and all applicable attachments in the project file.
- ☐ The site survey identified evidence of environmental concerns listed in Section 6. Continue with Section 4.

Section 4: Current and Past Land Use Information

Note: Review and assess current and past land use (up to 50 years) in the project area. Document and attach sources that were reviewed. If one or more Phase I ESAs were prepared for this project, please use applicable information from the Phase I ESAs to help complete this section of the ISA.

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Available <input type="checkbox"/> Not Applicable	4.1 Review Current and Past USGS 7.5 Minute Topographic Maps of the project area: Look for oil & gas pipelines, tanks, landfills, or other industrial features. Describe any concerns: No concerns		
	List Topo Maps Reviewed:	Dates:	Comments:
	Sanger, TX	1960 2019	None None
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Available <input type="checkbox"/> Not Applicable	4.2 Review Current and Past Aerial Photographs of the project area: Look for oil & gas pipelines, tanks, landfills, or other industrial features. Describe any concerns: None		
	List All Aerial Photos Reviewed:	Photo Dates:	Comments:

	<p>Google Earth Pro</p> <p>1995, 1996, 2001, 2005, 2008, 2009, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019</p> <p>HistoricAerials.Com</p> <p>1981</p>	<p>The project area was mostly agricultural land and limited residential from at least 1981 to the early 2000s, except for the City of Krum at the west end of the project and limited commercial development at IH 35 and Barthold Rd. The commercial development at IH 35 and Barthold Rd included a gas station facility and an auto salvage facility. The auto salvage facility was present beginning in approx. 1995. By 2011, the salvage yard no longer appeared to be used as such and was vacant for approx. seven years. Additional residential and commercial development began in the area in approx. 2003 and continued through at least 2011. Gas well pad sites began dotting the surrounding area in approx. 2004.</p>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Available <input type="checkbox"/> Not Applicable	4.3 Review Current and Past Right-of-Way Maps/Files*: Look for oil & gas pipelines, tanks, landfills, or other industrial features. Describe any concerns:	
	List Maps/ Files & Dates Reviewed:	Comments:
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Available <input type="checkbox"/> Not Applicable	4.4 Review Sanborn Fire Insurance Maps/Files: Look for tanks, oil & gas pipelines, landfills, or other industrial features. Describe any concerns:	
	List Maps/ Files & Dates Reviewed:	Comments:
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Available <input type="checkbox"/> Not Applicable	4.5 Review TxDOT As-Built Plans*: Were any concerns identified during previous work within the project limits? If yes, explain: If known, what is the previous Project CSJ:	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Available <input type="checkbox"/> Not Applicable	4.6 Review TxDOT Geotechnical Soil Boring Logs*: Were any concerns noted on the boring logs such as unusual odors, visible contamination, trash, waste or debris? If yes, explain:	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Available	4.7 Review TxDOT Temporary Use ROW Agreements (permits issued by the district to entities to occupy a portion of the ROW)*: Were any concerns such as monitor wells or treatment systems identified within the ROW? For consultants: this information shall be supplied by TxDOT. If yes, explain:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Available	4.8 Review Notifications of Contamination to TxDOT* (These are typically letters from TCEQ or third parties explaining the presence of contamination on TxDOT ROW): Were any concerns regarding contamination of ROW from off-site sources? If yes, explain:	

* For consultants: this information shall be supplied by TxDOT. If no information is supplied by TxDOT, then select Not Available.

Section 5: Complete a Regulatory Records Review (Database Search)

Note: Use the comment field in Section 5.1 to provide a synopsis of the total number of sites identified within the search distances of the regulatory record reviewed. No comments are required when no sites were identified or the regulatory record was not reviewed.

Select the appropriate box below:

☒ A Database search was conducted through a contracted service. Indicate in Section 5.1, and if applicable, Section 5.2, the regulatory records searched. Maintain a complete copy of the database search findings (contractor's report deliverable) in the project file with the ISA.

☐ A Database search was conducted in-house. For in-house database searches, not all databases need to be reviewed, but at a minimum the databases listed in Section 5.1 marked in **bold with a star(*)** must be reviewed. Include database records that list potential issues in the project file with the ISA. It is not necessary to include records of negative findings.

Section 5.1 Standard Database Sources of Environmental Information from Government Agency Records

Findings	Regulatory Record
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified	Federal Active NPL or Not NPL list (CERCLIS or SEMS sites)* https://cumulis.epa.gov/supercpad/CurSites/srchsites.cfm ; and/or https://www.epa.gov/cleanups/cleanups-my-community (1 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input checked="" type="checkbox"/> Sites Identified <input type="checkbox"/> No Sites Identified	Federal Archived NPL or Not NPL list (CERCLIS or SEMS sites)* https://cumulis.epa.gov/supercpad/CurSites/srchsites.cfm (0.5 mile minimum search distance from project limits)
Comments for Sites Identified: One SEMSARCH site (Map ID 18) was identified within the search radius and is discussed in the attached FM 1173 Hazardous Materials Project Impact Evaluation.	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified <input type="checkbox"/> Not Reviewed	US EPA Brownfield Properties https://www.epa.gov/cleanups/cleanups-my-community (0.5 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified <input type="checkbox"/> Not Reviewed	Federal RCRA Corrective Action (CORRACTS) list https://www.epa.gov/cleanups/cleanups-my-community , and/or http://www.epa.gov/enviro/ (1 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified <input type="checkbox"/> Not Reviewed	Federal RCRA non-CORRACTS Treatment Storage Disposal (TSD) facilities list http://www.envcap.org/statetools/tsdf/ and/or http://www.epa.gov/enviro/ (0.5 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified <input type="checkbox"/> Not Reviewed	Federal RCRA generators http://www.epa.gov/enviro/ (acquired property and adjoining properties)
Comments for Sites Identified:	
<input checked="" type="checkbox"/> Sites Identified <input type="checkbox"/> No Sites Identified <input type="checkbox"/> Not Reviewed	Federal ERNS (or Responses) https://www.epa.gov/cleanups/cleanups-my-community (acquired property and adjoining properties)

Comments for Sites Identified: Four ERNSTX incidents, one of which was on the Unlocatable Sites list, and one Hazardous Materials Incident Reporting System (HMIRSR06) incident were identified on the database report. Two incidents, Map ID 1 and the Unlocatable Site, are outside the specified search radius and are therefore, not an environmental concern. The remaining sites are discussed in the attached FM 1173 Hazardous Materials Project Impact Evaluation.	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified	TCEQ Industrial Hazardous Waste Corrective Action (IHWCA) sites only* http://www15.tceq.texas.gov/crpub/ (1 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified	TCEQ Superfund sites* http://www15.tceq.texas.gov/crpub/ and/or https://www.tceq.texas.gov/remediation/superfund/sites/index.html (1 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input checked="" type="checkbox"/> Sites Identified <input type="checkbox"/> No Sites Identified	Closed and abandoned municipal solid waste landfill sites* http://www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw-data (0.5 mile minimum search distance from project limits)
Comments for Sites Identified: One CALF site (Map ID 17) was identified within the search radius. According to information from the NCTCOG Closed and Abandoned Landfill website, the location of the former landfill was within the Porter Subdivision, plat SK00014A. The Denton CAD shows this plat area to be at the southwest corner of Hopkins Rd. and Radecke Rd., approx. 1,875 ft north of the project. Based on the distance, this site is not considered an environmental concern to the project.	
<input checked="" type="checkbox"/> Sites Identified <input type="checkbox"/> No Sites Identified	TCEQ leaking petroleum storage tank remediation lists (LPST)* http://www15.tceq.texas.gov/crpub/ (0.5 mile minimum search distance from project limits)
Comments for Sites Identified: Eight listings at four sites are identified within the specified search radius. Two of these sites, Map IDs 19 and 20, are situated approx. 500 feet to 660 feet, respectively, from the project and have closed cases. Based on the distances and closed cases, these two sites are not considered an environmental concern. The remaining two sites are adjacent and discussed in the attached Hazardous Materials Project Impact Evaluation.	
<input checked="" type="checkbox"/> Sites Identified <input type="checkbox"/> No Sites Identified	TCEQ registered petroleum storage tank lists (PST)* http://www15.tceq.texas.gov/crpub/ (acquired property and adjoining properties)
Comments for Sites Identified: Ten sites are identified on the database report; however, four sites are outside the specified search radius. The remaining six sites are adjacent and discussed in the attached Hazardous Materials Project Impact Evaluation.	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified	TCEQ voluntary cleanup program (VCP) sites* http://www15.tceq.texas.gov/crpub/ (0.5 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified <input type="checkbox"/> Not Reviewed	TCEQ Innocent Owner/ Operator (IOP) sites http://www15.tceq.texas.gov/crpub/ (0.5 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified	TCEQ Dry Cleaners remediation only Database* http://www15.tceq.texas.gov/crpub/ (0.5 mile minimum search distance from project limits)
Comments for Sites Identified:	
<input type="checkbox"/> Sites Identified <input checked="" type="checkbox"/> No Sites Identified	Texas Railroad Commission VCP sites* http://www.rrc.state.tx.us/oil-gas/environmental-cleanup-programs/site-remediation/voluntary-cleanup-program/ (0.5 mile minimum search distance from project limits)

Comments for Sites Identified:

Section 5.2 List below other pertinent records reviewed such as local records and/or additional state records

Record Source and Comments:

Record Source and Comments:

DCR: One drycleaner that performs on-site cleaning is adjacent to the project. This site is discussed in the attached Hazardous Materials Project Impact Evaluation.

Six SPILLS incidents were identified within the search radius and are discussed in the attached FM 1173 Hazardous Materials Project Impact Evaluation.

One HMIRSR06 incident was identified within the search radius and is discussed in the attached FM 1173 Hazardous Materials Project Impact Evaluation.

The Texas Railroad Commission Well and Pipeline Viewer (accessed 3-13-20). According to the Viewer, ten natural gas pipelines cross and are located in the project and are discussed as follows:

1. Targa Midstream Services LLC 4.5-inch diameter NTX Chico natural gas, gathering line approximately 402.2 feet northwest of E 6th Street on FM 1173 in Krum, TX. Approximately STA 116+50. Status is "in service" (see the Hazardous Materials Sites Map - Page 1 and 2).
2. Atmos Pipeline- Texas 30-inch diameter WN natural gas, transmission line where Hopkins Road and FM 1173 connect in Krum, TX. Approximate STA 157+00 (FM 1173 EB) to 160+00 (FM 1173 WB). Status is "in service" (see the Hazardous Materials Sites Map - Page 3).
3. Targa Midstream Services LLC 4.5-inch diameter NTX Chico natural gas, gathering line approximately 45.1 feet east of N Masch Branch Road on FM 1173 in Krum, TX. Approximately STA 189+25. Status is "in service" (see the Hazardous Materials Sites Map - Page 4).
4. Enlink Midstream Services, LLC 8.63-inch diameter Bridgeport Lean System natural gas, gathering line approximately 88.6 feet east of N Masch Branch Road on FM 1173 in Krum, TX. Approximately STA 189+75. Status is "in service" (see the Hazardous Materials Sites Map - Page 4).
5. Targa Midstream Services LLC 8.63-inch diameter NTX Chico natural gas, gathering line approximately 432.1 feet east of Masch Branch Road on FM 1173 in Krum, TX. Approximately STA 200+90. Status is "in service" (see the Hazardous Materials Sites Map - Page 4).
6. Enterprise Products Operating LLC 36-inch diameter South Texas-TX150 natural gas, transmission line approximately 5,294 feet west of IH 35 on Barthold Road in Denton, TX. Approximately STA 240+95. Status is "in service" (see the Hazardous Materials Sites Map - Page 5).
7. Atmos Pipeline - Texas 24-inch diameter NT-201 natural gas, transmission line approximately 5,234.9 feet west of IH 35 on Barthold Road in Denton, TX. Approximately STA 241+25. Status is "in service" (see the Hazardous Materials Sites Map - Page 5).
8. Copano Fld Serv/ North Texas, LLC 4.5-inch diameter North Denton Pipeline natural gas, gathering line approximately 1,712.2 feet west of IH 35 on Barthold Road in Denton, TX. Approximately STA 276+75. Status is "abandoned" (see the Hazardous Materials Sites Map - Page 6).
9. Eagleridge Operating, LLC 6.63-inch diameter North Denton natural gas, gathering line approximately 22.9 feet north of Barthold Road in Denton, TX. This pipeline is parallel to the existing FM 1173, and within the proposed ROW for widening of FM 1173, beginning at STA 280+50 to the end of the project limits. Status is "in service" (see the Hazardous Materials Sites Map - Page 6 and 7).
10. Atmos Pipeline - Texas 30-inch diameter WN natural gas, transmission line approximately 44.1 feet north of Barthold Road in Denton, TX. This pipeline is parallel to the existing FM 1173, beginning at STA 280+75 to the end of the project limits. Status is "in service" (see the Hazardous Materials Sites Map - Page 6 and 7).

Based on the contents of the natural gas pipelines, these features are not considered an environmental concern. Formal utilities location and advance planning would be required to facilitate pipeline and utilities adjustments and to otherwise avoid associated impacts. TxDOT Dallas District SUE Coordinator and ROW will be responsible for the adjustments and displacements.

Section 6: Complete a Project Site Survey

Note: Do not document site survey concerns that were previously identified by the regulatory list search, by the Current and Past Land Use review, or both. In Section 6.1, describe the location and size of the concern. Attach site

maps and photographs, as appropriate. If a Phase I ESA has been prepared for this project, you may use the applicable site survey information from the Phase I ESA and updated current site conditions, as needed.

Possible Site Survey Concerns: The following items are to be used as a guide to help identify potential hazardous material issues during a site survey.

- underground storage tanks
- aboveground storage tanks
- injection wells, cisterns, sumps, dry wells
- floor drains, walls stained by substances other than water or emitting foul odors
- stockpiling, storage of material
- surface dumping of trash, garbage, refuse, rubbish, debris half exposed/buried, etc.
- stained, discolored, barren, exposed or foreign (fill) soil
- oil sheen or film on surface water, seeps, lagoons, ponds, or drainage basins
- changes in drainage patterns from possible fill areas
- Dead animals (fish, birds, etc.)
- vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground
- electrical and transformer equipment storage or evidence of release
- groundwater monitoring wells and groundwater treatment systems
- vats, 55-gallon drums (labeled/unlabeled), canisters, barrels, bottles, etc.
- evidence of liquid spills
- damaged or discarded automotive or industrial batteries
- dead, damaged, or stressed vegetation
- pits, ponds, or lagoons associated with waste treatment or waste disposal
- security fencing, protected areas, placards, warning signs

Site Survey Date(s): March 3, 2020 and April 30, 2020

6.1 Describe Concerns Observed During the Site Survey. **Do not** include concerns previously identified during the regulatory list search, the current and past land use review or both. Indicate if the concern is associated with existing ROW, proposed ROW, adjacent property, or easements. Provide address location (or relative location) and any additional information about the evidence identified; include photographs as an attachment to the ISA.

Comments or Concerns Identified:

Pole-mounted electrical transformers are located along various sections of FM 1173. No environmental concerns were observed. These transformers do not pose an environmental concern for the project.

There are body shops, auto lube and service facilities, and semi-trailer storage lots along the corridor adjacent to the project improvements, the majority of which are not listed regulatory sites. Evidence of spills or releases was not observed near project improvement areas. The presence of these businesses is considered a low environmental risk to the project.

An auto salvage yard was formerly located on the south side of Barthold Rd. approx. 1,000 west of IH 35. The site is currently being used as an off-site trailer overflow parking facility and is considered a low environmental risk to the project.

Section 7: Interviews

Section 7.1 Were interviews conducted? ☐ Yes ☒ No

Possible interviewees include local residents, TxDOT staff, fire department personnel, city or county department of health/environmental staff, city or county planning staff, TCEQ staff, TRRC staff, and current and former property owners or operators.

If one or more Phase I ESAs were prepared for this project, please use applicable interview information from the Phase I ESAs to help complete this section of the ISA.

Section 7.2 Interview Summary: Complete this section if interviews were conducted. Add additional rows as needed. Attach record of communications to the ISA.		
Name:	Title:	Date:
Describe any potential concerns:		
Name:	Title:	Date:
Describe any potential concerns:		
Name:	Title:	Date:
Describe any potential concerns:		

Section 8: Hazardous Material Concerns	
<p>On the list below, indicate if a concern is resolved or unresolved. "Unresolved" indicates additional investigation or research is required. "Resolved" indicates the concern has been resolved during the preparation of this ISA. If a concern is "Unresolved" or "Resolved", include a statement explaining the planned next steps to resolve the issue. If no concerns were identified, select "No Issue".</p> <p>For additional information regarding scheduling considerations, internal/external coordination and recommended practices for resolving hazmat issues please refer to TxDOT's <i>Environmental Tool Kit</i> web site.</p> <p>Contact TxDOT ENV Hazardous Material Management (HMM) for additional assistance.</p>	
8.1 Identify Type of Hazardous Material Concerns	
Resolution	Type of Concern
<input type="checkbox"/> Unresolved <input type="checkbox"/> Resolved <input checked="" type="checkbox"/> No Issue	Current or Past Land Use Concerns: These concerns are associated with hazardous material issues identified in Section 4 that <u>were not discovered during the database search in Section 5.1 or during the Site Survey in Section 6.1.</u> Note: <i>For ECOS IIR development, the Available Contaminated Media would be "Other".</i>
Explain Unresolved or Resolved Issues:	
<input type="checkbox"/> Unresolved <input checked="" type="checkbox"/> Resolved <input type="checkbox"/> No Issue	Site Visit Concerns: These concerns are associated with hazardous material issues discovered following the completion of Section 6 that <u>were not previously discovered during the database search in Section 5.1 or during the current and past land use review in Section 4.</u> Note: <i>For ECOS IIR development, the Available Contaminated Media would be "Other".</i>
Explain Unresolved or Resolved Issues:	
<p>Resolved:</p> <p>Pole-mounted electrical transformers located along various sections of the project do not pose an environmental concern for the project.</p> <p>The presence of body shops, auto lube and service facilities, and semi-trailor storage lots along the project, some not listed as regulatory sites, are considered a low environmental risk to the project.</p> <p>An auto salvage yard was formerly located on the south side of Barthold Rd. approx. 1,000 feet west of IH 35. The site is currently being used as an off-site trailer overflow parking facility and is considered a low environmental risk to the project.</p>	
<input type="checkbox"/> Unresolved <input type="checkbox"/> Resolved <input type="checkbox"/> No Issue <input checked="" type="checkbox"/> N/A	Interview Concerns: These concerns are associated with any hazardous material issues discovered during an interview listed in Section 7, <u>that were not previously discovered during the database search in Section 5.1, during the current and past land use review in Section 4, or during the Site Survey in Section 6.1.</u> Note: <i>For ECOS IIR development, the Available Contaminated Media would be "Other".</i>
Explain Unresolved or Resolved Issues:	


<input type="checkbox"/> Unresolved <input checked="" type="checkbox"/> Resolved <input type="checkbox"/> No Issue	Petroleum Storage Tanks (PSTs) Concerns discovered during the database search: PSTs are underground or aboveground storage tanks used to store fuel or other petroleum substances. Typically, these are found at gasoline and diesel refueling facilities. Select below all that apply.	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ROW acquisition or partial acquisition of a parcel with one or more PSTs.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other- Describe:
<p>Explain Unresolved or Resolved Issues:</p> <p>Resolved:</p> <p>All PST sites are determined to be no environmental concern or low environmental risks.</p> <p>See Section 5.1 and the attached FM 1173 Hazardous Materials Impact Evaluation for discussions.</p>		
<input type="checkbox"/> Unresolved <input checked="" type="checkbox"/> Resolved <input type="checkbox"/> No Issue	Leaking Petroleum Storage Tanks (LPSTs) Concerns discovered during the database search: LPSTs are PSTs that have caused or are suspected to have caused a release of fuel or other petroleum substances to the environment.	
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Additional Research is needed or uncertain of impacts from one or more LPSTs. Request assistance from ENV.
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ROW acquisition or partial acquisition of a parcel with one or more LPSTs.
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	One or more LPSTs are located within 0.25 miles of the project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other- Describe:
<p>Explain Unresolved or Resolved Issues:</p> <p>Resolved:</p> <p>All LPST sites are determined to be no environmental concern or low environmental risks.</p> <p>See Section 5.1 and the attached FM 1173 Hazardous Materials Impact Evaluation for discussions.</p>		
<input type="checkbox"/> Unresolved <input checked="" type="checkbox"/> Resolved <input type="checkbox"/> No Issue	Oil and Gas Activity Concerns: TxDOT is concerned with the acquisition of oil and gas wells (and ancillary equipment) such as process, piping, production equipment, pipelines, etc. Select below all that apply.	
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Additional Research needed or uncertain of impacts. Request assistance from ENV.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified TRRC VCP Site within 0.5 miles of project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oil/ Gas Wells within future ROW.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Spills or other Contamination Issues associated with ancillary equipment or pipelines.
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other- Describe: Natural gas pipelines
<p>Explain Unresolved or Resolved Issues:</p> <p>Resolved:</p> <p>10 natural gas pipelines transect the project. These features are not considered an environmental concern. Additional information regarding the pipelines is discussed in Sec. 5.2. Formal utilities location and advance planning would be required to facilitate pipeline and utilities adjustments and to otherwise avoid associated impacts. TxDOT Dallas District SUE Coordinator and ROW will be responsible for the adjustments and displacements.</p>		
<input type="checkbox"/> Unresolved <input checked="" type="checkbox"/> Resolved <input type="checkbox"/> No Issue	Non-LPST Source Contamination Concerns discovered during the database search: These are sites or locations that have a potential for soil and groundwater contamination and are not associated with LPST sites. Select below all that apply.	
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Additional Research is needed or uncertain of impacts from a Non-LPST site. Request assistance from ENV.

	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified SEMS Active NPL or Not NPL site(s) within 1 mile of the project. This may be identified on a database search as a CERCLIS or NPL site.
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Database search identified SEMS Archived NPL or Not NPL site(s) within 0.5 miles of the project. This may be identified on a database search as a CERCLIS NFRAP.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified RCRA Corrective Action(s) site within 1 mile of project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified RCRA TSD facilities within 0.5 miles of project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified TCEQ IHW Corrective Action sites within 1 mile of project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified TCEQ Superfund sites within 1 mile of project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified TCEQ VCP sites within 0.5 miles of project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Database search identified TCEQ IOP sites within 0.5 miles of project.
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other- Describe: ERNSTX, SPILLS
<p>Explain Unresolved or Resolved Issues:</p> <p>Resolved:</p> <p>All Non-LPST sites were determined to be no environmental concern or low environmental risks</p> <p>See Section 5.1 and the attached FM 1173 Hazardous Materials Impact Evaluation for discussions.</p>		
<input type="checkbox"/> Unresolved <input checked="" type="checkbox"/> Resolved <input type="checkbox"/> No Issue	<p>Landfills/Waste Pits/Dump Site Concerns: These concerns are associated with any known or suspected (based on visual observations) landfills, dump sites, or waste pits. These concerns may appear on a database search as CALF or MSWLF site. Additionally, the local Council of Governments (COG) maintains a list of closed and open landfills in your project area. Select below all that apply.</p>	
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Additional research is needed or uncertain of impacts. Request assistance from ENV.
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Database search identified active/closed/abandoned CALF or MSWLF landfill sites within .5 miles of the project.
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other- Describe:
<p>Explain Unresolved or Resolved Issues:</p> <p>Resolved:</p> <p>One site (Map ID 17) is determined to be no environmental concern or low environmental risk.</p> <p>See Section 5.1 and the attached FM 1173 Hazardous Materials Impact Evaluation for discussions.</p>		
<p>8.3 Did the ISA identify any Unresolved Hazardous Material concerns?</p> <p><input checked="" type="checkbox"/> No, unresolved hazardous materials concerns were identified and/or all potential concerns were resolved within the ISA. No further hazardous materials action is required. The ISA is complete for this project. Any unanticipated hazardous materials impacts encountered during the project construction phase shall be addressed in accordance with regulatory requirements and TxDOT standard specifications. Complete Sections 9 and 10 and maintain a copy of the ISA and all applicable attachments in the project file.</p> <p><input type="checkbox"/> Yes, the ISA identified one or more unresolved hazardous materials concerns requiring additional investigations or assessments. An Issues, Identification, and Resolution (IIR) form shall be completed in ECOS to track the additional investigations and assessments. Complete Sections 9 and 10 and maintain a copy of the ISA and all applicable attachments in the project file.</p>		

Section 9: Reference Materials Utilized (Identify any referenced materials and attach them to the ISA or in the project file.

Referenced Materials Used	<input checked="" type="checkbox"/> Project Map	<input checked="" type="checkbox"/> USGS Topo Maps	<input checked="" type="checkbox"/> Aerial Photographs
	<input type="checkbox"/> ROW Maps/Files	<input type="checkbox"/> Sanborn Fire Insurance Maps	<input type="checkbox"/> Temporary Use Agreements
	<input type="checkbox"/> TxDOT As-Built Plans	<input type="checkbox"/> Notifications	<input checked="" type="checkbox"/> Photographs
	<input checked="" type="checkbox"/> Project Schematics/Profiles	<input checked="" type="checkbox"/> Regulatory Database	<input type="checkbox"/> Record of Interviews
	<input checked="" type="checkbox"/> Other: Hazardous Materials Site Map and Pipeline Information		

Section 10: Contact/Completed by

Name:	Katrina Harrison and Chris Hagar	Tel: 214-716-4577
Title:	Environmental Scientist	
Firm (District Section):	Civil Associates, Inc.	
Address:	9330 LBJ Freeway, Suite 1150, Dallas, TX 75243	
Signature:		Date: May 1, 2020

Appendix A

The following table shows the revision history for this guidance document.

Revision History	
Effective Date	Reason for and Description of the Change
December 2019	<p>Version 6</p> <p>Updated NEPA assignment disclaimer language to reflect first renewed NEPA assignment MOU date of December 9, 2019.</p>
April 2017	<p>Version 5</p> <p>The cover page has additional fields related to specific project information. This is added to personalize the ISA to a project.</p> <p>Section 2 was modified to acknowledge that asbestos or lead-in-paint issues might exist on our construction projects, but the identification and resolution to these issues are outside of the ISA process and are handled programmatically by TxDOT (usually in CST or the ROW processes).</p> <p>Section 3 was modified by adding an additional screening option. You are now able to screen out of performing a full ISA if your project meets the parameters described.</p> <p>Section 6 was reformatted to remove the numerous selections related to the Possible Site Survey Concerns. Additionally, redundant questions were removed to make the section easier to use. Under the new format, the preparer is required to insert the survey dates and a description of what was identified during the survey.</p> <p>Minor changes were made to terminology throughout the ISA, this was performed to clarify and streamline the process.</p> <p>Section 8.1 has been modified to provide resolution to potential hazardous materials issues that can be resolved easily during the ISA process. Additionally, a comment field was added to provide direction related to issues requiring further action to resolve. This will streamline the process in reducing the amount of IIR entries requires in ECOS and will reduce the time required to review a project.</p>
June 2016	<p>Version 4</p> <p>Modifications to Section 5: Web links and database names were modified based on changes made by regulatory agency websites.</p>
October 2014	<p>Version 3</p>

	<p>Modifications to Section 2: Clarified this section to better define what are asbestos and lead-in-paint concerns. Changes were made due to numerous comments from the end-user.</p> <p>An additional note was added to this section. This note directs end-users to ENV-HMM for further assistance related to lead-in-paint issues.</p> <p>Modifications to Section 3: The question concerning Project Excavations in Section 3.1 was modified to match the definition used in Scoping Procedure for Categorically Excluded TxDOT Projects for Hazardous Materials found in the NEPA and Project Development Toolkit.</p> <p>Modifications to Section 5: Web links were modified based on changes made by regulatory agency websites.</p> <p>Modifications to 8.2: Clarified the “Yes” answer in 8.2 to remove the need for additional assessments for all identified hazardous materials concerns. The question was modified due to comments by the end-user.</p>
August 2014	<p>Version 2</p> <p>Removed introductory note describing ISA threshold criteria. Note was removed because the ISA threshold criteria are located in other TxDOT guidance.</p>
April 2014	<p>Version 1</p> <p>Released</p>

ATTACHMENTS

The following have been attached to this report:

Attachment 1: FM 1173 Hazardous Materials Project Impact Evaluation (10 sheets)

Attachment 2: Project Location Map

Attachment 3: USGS Topographic Map

Attachment 4: Hazardous Materials Site Map (7 sheets)

Attachment 5: Hazardous Materials Sites Project Photographs (7 sheets)

Attachment 6: FM 1173 Project Design Schematic (6 sheets)

Attachment 8: FM 1173 Regulatory Database Report (266 sheets)

Attachment 9: Other Regulatory Information (7 sheets)

Attachment 10: Other Documentation - Pipeline Attributes (10 sheets)

Section 1.0 Introduction

The presence of hazardous materials within a project study area can create issues affecting right-of-way (ROW) acquisition, project development, and construction. This Hazardous Materials Project Impact Evaluation Report identifies the potential hazardous materials concerns as they relate to project construction and/or ROW acquisition for concerns identified by the project Hazardous Materials Initial Site Assessment (ISA).

Section 2.0 Project Description

The Texas Department of Transportation (TxDOT) proposes the construction of a new six-lane urban highway with sidewalks on both sides. The reconstruction of FM 1173 would be approximately 5,400 feet in length; the new construction portion of FM 1173 would be approximately 3,200 feet and the reconstruction of the existing Barthold Road would be approximately 10,400 feet in length. Refer to the attached **Project Location Map** and the **Project Location on United States Geological Survey (USGS) Topographic Map**.

There are 13 cross streets along the project. The following cross streets and intersections would be rebuilt to provide sufficient tie-ins at each location:

1. South 1st Street (FM 156)
2. Jackson Street
3. East 6th Street
4. North 7th Street
5. Evans Avenue & Bobcat Boulevard
6. Hopkins Road
7. Nighthawk Drive
8. Blackforest Road
9. Thoroughbred Drive
10. South Masch Branch Road & North Masch Branch Road
11. North Lovers Lane Road & South Lovers Lane Road
12. Existing FM 1173 (Connector)
13. Barthold Road

The project includes constructing four travel lanes from FM 156 to East 6th Street and six travel lanes from East 6th Street to IH 35. In the FM 156 to East 6th Street segment, the travel lanes would include one outside 14-foot wide shared-use lane and a varying 11 to 12-foot inside lane in each direction. In the East 6th Street to IH 35 segment, the travel lanes would include one outside 14-foot shared-use lane and two varying 11 to 12-foot inside lanes in each direction. The eastbound and westbound lanes would be divided with a raised median along the centerline from the BNSF Railway railroad tracks to IH 35. Sidewalks would vary from five to six-feet wide with a three-foot berm adjacent to the back of the curb. The proposed facilities' ROW widths would vary from 120 feet to 300 feet. Refer to the **Project Design Schematic** attachment.

Section 3.0 Sites with Potential Hazardous Materials Concerns

An ISA was prepared to identify sites of potential hazardous materials concerns within the project study area. The components of the ISA included reviewing project design and ROW requirements, reviewing existing and previous land use, reviewing federal and state regulatory databases and files, conducting project site visits or field investigations, and conducting interviews, if possible.

As part of the ISA, a review of selected environmental regulatory databases published by federal and state agencies was conducted to determine the potential for hazardous material issues within and near the project study area. A review of the regulatory database report dated February 27, 2020 was performed in general accordance with the ASTM Standard E1527 and TxDOT guidelines, which defines the environmental record sources to be reviewed and their minimum search distances from the project study area.

The **Hazardous Materials Sites Map** attachment identifies the potential hazardous materials concerns on an aerial base map.

Section 4.0 Evaluation of Unresolved Potential Hazardous Materials Concerns

Each “unresolved” hazardous material concern identified by the ISA was evaluated for the following:

- Site name, address, and parcel number (if available)
- Database or discovery tool (ex: LPST, site survey, current/past land use, etc.)
- Regulatory identifier (i.e. database or regulatory number or other identifier used by regulatory agency)
- Potential ROW requirements from affected parcels
- Description of site and any potential hazardous material concerns on affected parcel
- Potential impact to the project related to hazardous material concerns

The evaluations will draw conclusions about potential impacts for each concern identified during preparation of the ISA within a category as follows:

1. Low Potential or No Potential Project Impacts (Green): The issue has a low potential to affect the proposed project and no further investigations are required.
2. Possible Project Impacts (Yellow): The issue has a moderate potential to affect the proposed project. Not enough information is currently known about the project and/or issue to determine potential impacts. Further investigation, and/or additional project design and right-of-way information, is required.
3. Anticipated Project Impacts (Red): The issue has a high potential to impact the proposed project and further investigations, coordination, or contingencies may be required.

The regulatory sites are associated with automotive gasoline/service stations, local government agencies, and drycleaners. The presence of petroleum storage tanks and generation of hazardous waste adjacent to the proposed project represent a potential risk for encountering soil and groundwater contamination during the construction phase of the project (Refer to **Table 1**).

See the **Hazardous Materials Sites Map** attachment for the location of identified regulatory database sites and facilities and graphical evaluation of potential issues of concern. The mapped sites are classified in accordance with the criteria shown above.

All regulatory sites were determined to be low environmental risks or not a concern to the project. **Table 1** presents a summary of hazardous materials sites associated with the proposed FM 1173 Improvement Project.

Table 1: Summary of Unresolved Hazardous Materials Sites

Map ID	Site Information	Location in Reference to Project	Regulatory Database Listing(s)	Environmental Concern Summary	Potential to Impact Project
1	<p>Sunpower Truck Stop/Star Travel Plaza/Loves Travel Stop</p> <p>6421 N. IH 35 Denton, TX 76207</p> <p>(Currently Loves Truck Stop)</p> <p>Photo: 1, 2, and 3</p>	<p>Adjacent S, SWC of IH 35 at Barthold Road</p> <p>Proposed ROW Acquisition</p>	<p>LPST (3) PST HMIRSR06 SPILLS (6)</p>	<p>The site is an active gas station (Loves Travel Stop) utilizing one 3,000-gallon oil/water separator, one 8,000-gallon gasoline, one 12,000-gallon diesel, one 20,000-gallon diesel, one 20,000-gallon gasoline, and two 30,000-gallon diesel underground PSTs. All of the PSTs are double-wall, composite and were installed in 2017. The current facility has at least two tank holds. One is near the western driveway and is adjacent to proposed ROW. The second is on the west side of the eastern driveway and approx. 80 feet southeast of proposed ROW.</p> <p>The former facility, Sunpower Truck Stop/Star Travel Plaza, which was razed in stages between 2009 and 2016, had three 10,000-gallon underground PSTs removed from the ground in 2006 and four 10,000-gallon and one 30,000-gallon underground PSTs removed from the ground in 2014.</p> <p>Three releases were reported for the former facility. The first was reported on 12-23-89. Groundwater was impacted and monitoring performed through 2010. The TCEQ issued final concurrence on 8-4-10 and the case is closed. A second release occurred on 10-21-05. Groundwater was impacted. The TCEQ issued final concurrence on 9-9-10 and the case is closed. While doing business as Star Travel Plaza, a third release occurred on 9-27-07. Groundwater was impacted with no apparent threats or impacts to receptors. The TCEQ issued final concurrence on 7-12-10 and the case is closed. According to the TCEQ Central Registry, the site has received three Commissioner's Enforcement Orders (CEOs). Two CEOs occurred in 2004 and 2007, respectively. No details are reported. One CEO occurred in 2007 for failure to monitor PSTs and failure to inspect the cathodic protection systems. The status of all CEOs is closed.</p> <p>Several spills and a complaint had been reported for the property. In 2005, a complaint was reported alleging that a 10,000-gallon waste oil spill occurred on site in 2002 and approx. 80 waste oil containers and used oil filters were buried on site. The oils, filters, and containers were reportedly resurfacing on the property. Additionally, three PSTs were allegedly leaking. Coordination of the leaking PSTs was handled under LPST ID No. 94606. The remainder of the complaint could not be substantiated and the incident was closed. Three spill incidents occurred on the former facility property between 2000 and 2004 and are therefore, not a concern. Four spill incidents have occurred on the current Love's facility property between 2018 and 2019. The spill amounts range between 25 to 200 gallons of diesel fuel. All of these incidents occurred within the Love's property and none are reported to have reached a water body. A minor amount of ROW is required from the north side of the property. Proposed work activity for this area includes widening FM 1173 and addition of sidewalks. Although one of the tank holds is adjacent to proposed ROW, based on no reported releases for the current PSTs, work activity adjacent to this site and complete redevelopment of the site from</p>	Low

Table 1: Summary of Unresolved Hazardous Materials Sites

Map ID	Site Information	Location in Reference to Project	Regulatory Database Listing(s)	Environmental Concern Summary	Potential to Impact Project
				the previous problematic gas station facility, this site is considered a low environmental risk to the project at this time. However, if the project design changes and proposed ROW would displace the tank hold, the risk level of this site may be elevated.	
4	Krum ISD 809 E. McCart Street Krum, TX 76249 (Current facility) Photo: 5	Entire property - Adjacent N Entire property - Proposed ROW Acquisition	PST	PST information was not reported in the database report. According to the TCEQ Central Registry, the facility formerly utilized one 2,000-gallon gasoline underground PST from 1981 to removal in 1989. Comparing the PST dates with historic aerials, the building that most likely had the PST installed is the building on the north side of the current tennis courts along Bobcat Blvd. This building is situated approx. 185 feet north of proposed ROW. No releases had been reported for the facility. Based on the distance of the building, that most likely had the PST, from proposed ROW and no reported releases, this site is a not considered an environmental risk to the project.	None
5	Outback Market 210 W. McCart Street Krum, TX 76249 (Current facility) Photo: 10	Adjacent N	PST	The facility is an active gas station. PST information was not reported in the database report. According to the TCEQ Central Registry, the facility utilizes three 4,000-gallon gasoline underground PSTs. The tanks were installed in 1982. No releases have been reported, however, a Commissioner's Enforcement Order was issued in 2013 for failing to monitor the USTs for releases. The tank hold is approx. 55 ft. northwest of the project existing ROW. The facility is adjacent north to the beginning project limits. No ROW acquisition is proposed from this property. Review of the schematic shows possible repaving of FM 1173 adjacent to this facility with no additional work activity shown. Based on no ROW acquisition and proposed work activity, this facility is considered a low environmental risk to the project.	Low
6	Krum Quick Track 920 E. McCart Street Krum, TX 76249 (Current facility) Photo: 6	Adjacent S	ERNSTX PST	The facility is an active gas station. PST information was not reported in the database. According to the TCEQ Central Registry, the facility utilizes one single-wall, composite, 40,000-gallon split diesel/gasoline underground PST installed in 2002. The tank hold is approx. 45 feet south-southeast of existing ROW. No releases have been reported for the facility. The site received a Notice of Violation on 8-20-18 for failure to protect the underground metallic components from corrosion. The status is reported as resolved. In 2008, an emergency response incident was reported. The incident is reported as a spill of gasoline possibly from someone fueling their car. It is reported that kitty litter was placed on the spill. No ROW would be acquired from this site. Proposed work activity adjacent to this facility includes widening FM 1173 with addition of a sidewalk and a drainage easement on the west side of the facility. Based on the absence of	Low

Table 1: Summary of Unresolved Hazardous Materials Sites

Map ID	Site Information	Location in Reference to Project	Regulatory Database Listing(s)	Environmental Concern Summary	Potential to Impact Project
				ROW acquisition from the site, proposed work activity, and no reported releases, this site is considered a low environmental risk to the project.	
7 & 18	Krum City Hall Parking Lot 102 McCart Street (address adjacent to parking lot) City Hall address: 146 W. McCart Street Krum, TX 76249 Photo: 7	Adjacent N	ERNSTX SEMSARCH	The EPA On Scene Coordinator (OSC) information states that on April 11, 2005 a small bottle of suspected nitroglycerin was taken to Krum City Hall by a resident. The decision was made to detonate it in the City Hall parking lot. Bales of hay were stacked around the bottle to dampen the explosion. After detonation, it was discovered that the contents of the bottle was actually mercury. The fire department was dispatched to collect all contaminated hay as well as 70 pounds of asphalt aggregate. On April 13, 2005, additional assessments were performed in the parking lot to determine how much mercury remained. Mercury was detected in the air and on the ground in the parking lot. All loose aggregate with mercury was removed. Post TCLP analyses revealed concentrations of less than 0.2 mg/L. Information from the EPA OSC is attached. The address of 333 W. Lake St listed for the SEMSArch site is incorrect. That address is the Krum Fire Department and not where the mercury incident occurred. Proposed work activity adjacent to the City Hall and parking lot include widening of FM 1173 with the addition of sidewalks and driveway improvements. Based on the absence of ROW acquisition, the time since the release occurred and its status as cleaned up, this incident and SEMSArch listing are considered a low environmental risk to the project.	Low
9	Johnny Joes 4 100 S. 1st Street Krum, TX 76249 (Current facility) Photo: 8	Adjacent SWC, FM 1173 at 1st Street (FM 156)	PST	The site is an active gas station. PST information was not reported in the database. According to the TCEQ Central Registry, the site utilizes one 8,000-gallon gasoline and one 8,000-gallon split diesel/gasoline underground PSTs. Both PSTs single-wall, composite and were installed in 1997. The site formerly utilized one 2,000-gallon gasoline, one 3,000-gallon diesel, one 3,000-gallon gasoline, and one 4,000-gallon gasoline underground PSTs which were removed from the ground in 1997. The tank hold is adjacent west of existing ROW along S 1 st St. No releases have been reported for the facility. A complaint was reported in April 2014 for a leaking pump hose and ground staining. The complaint resulted in two Notice of Violations. One was for failure to operate the UST system in a manner that prevents releases due to structural failure or corrosion. The second was for failure to contain and immediately clean up a spill or overfill of less than 25 gallons. The status of both violations is resolved and the complaint status is closed. Two additional Notice of Violations were issued to the facility on 4-20-18. One was administrative and the other was for failure to maintain corrosion protection on all underground metal components. The status of both violations is reported as resolved. No ROW would be required from the site. Work activity proposed adjacent to this facility is the reconstruction of the 1 st Street tie-in to	Low

Table 1: Summary of Unresolved Hazardous Materials Sites

Map ID	Site Information	Location in Reference to Project	Regulatory Database Listing(s)	Environmental Concern Summary	Potential to Impact Project
				FM 1173. No significant excavations are proposed. Although the tank hold is adjacent to existing ROW, based on the absence of ROW acquisition, no reported releases, and no excavations, this site is considered a low environmental risk to the project at this time. However, if the project design changes and ROW would be acquired for this site and/or excavations are proposed adjacent to the tank hold, the risk level of this site would be elevated.	
10	Vogue Cleaners 110 S 1 st Street Krum, TX 76249 (Current facility) Photo: 11	Adjacent W	DCR	This is an active drycleaner that performs on-site dry cleaning and has been registered since at least 2005. The solvent used is listed as petroleum. The facility has no releases reported. No ROW is required from this site. Work activity proposed adjacent to this facility is the reconstruction of the 1st Street tie-in to FM 1173. No significant excavations are proposed. Based on no reported releases and no excavations, this site is considered a low environmental risk.	Low
16	Lawson's Conoco 129 W. McCart Street Krum, TX 76249 (Currently D-Bar Farms) Photo: 9	Adjacent S	LPST PST	The site was a former gas station that utilized one 1,000-gallon gasoline, one 2,000-gallon gasoline, and one 4,000-gallon gasoline underground PSTs. The PSTs were removed from the ground in 1998. A release was reported upon tank closure in 1999. Groundwater was impacted with no apparent threats or impacts to receptors. According to the TCEQ Central Registry, groundwater monitoring occurred from 2000 to 2001. The TCEQ issued final concurrence on 3-14-02 and the case is closed. No ROW would be acquired from this site. Proposed work activity for this area includes widening of FM 1173 with addition of sidewalks and driveway improvements. Based on the absence of ROW acquisition from the site, no PSTs currently at the site, and TCEQ final concurrence of the release, this site is considered a low environmental risk to the project.	Low

Proposed Next Steps

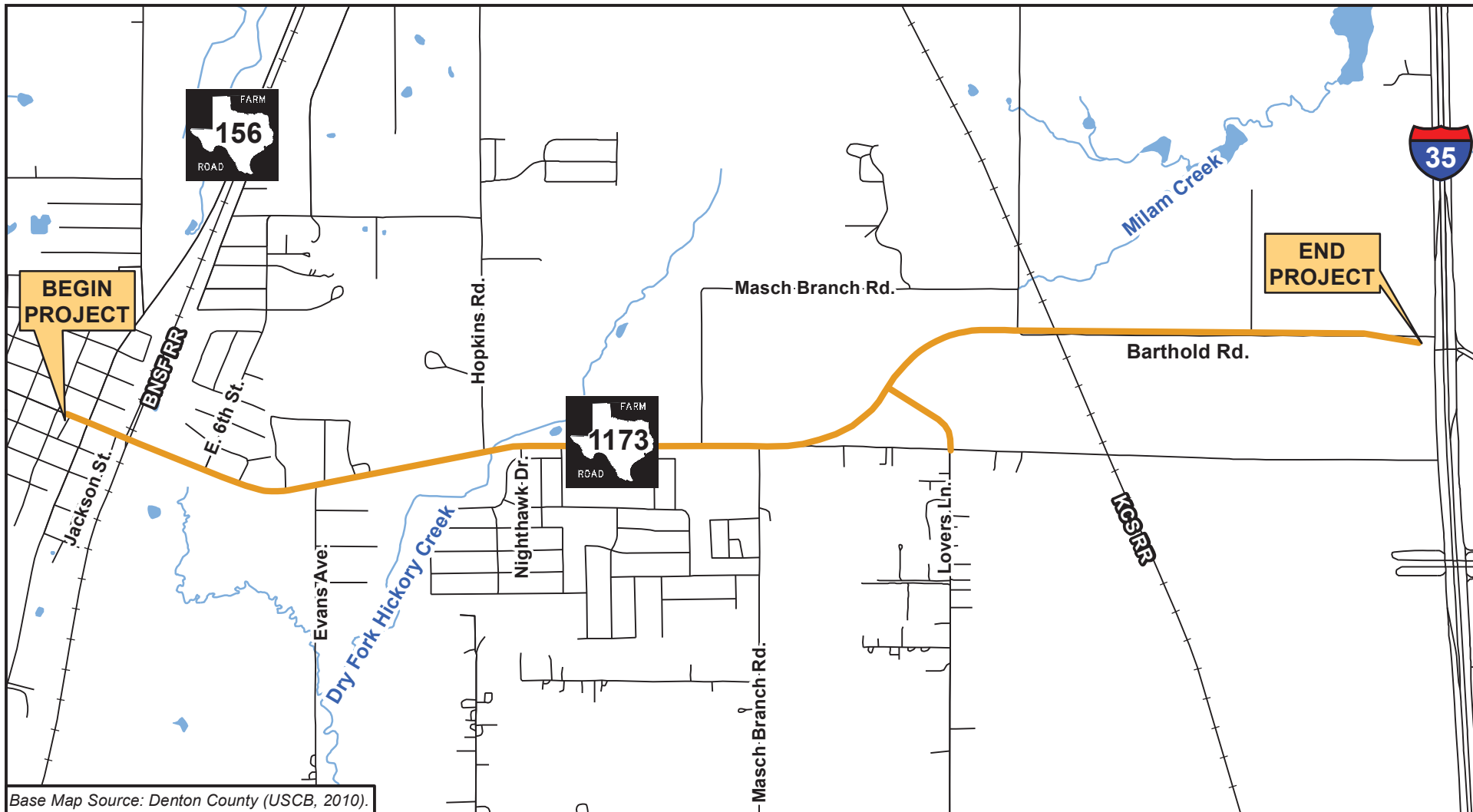
All regulatory sites were determined to be low environmental risks or not a concern to the project. Additional investigation and/or research is not warranted at this time.

Should unanticipated hazardous materials/substances be encountered during construction, TxDOT and/or the contractor would be notified and steps would be taken to protect personnel and the environment. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per TxDOT Standard Specifications. The contractor would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. All construction materials used for the proposed project would be removed as soon as the work schedules permit. The contractor would initiate early regulatory agency coordination during project development.

The **Hazardous Materials Sites Map** attachment displays each potential concern (resolved or unresolved) identified by the ISA and includes the following information:

- Property buildings and other real property with project schematics overlay.
- Current and proposed ROW
- Potential hazardous material concern property color coded with their respective low, medium, or high risk level.
- Each potential concern will include identified name and associated Map ID number

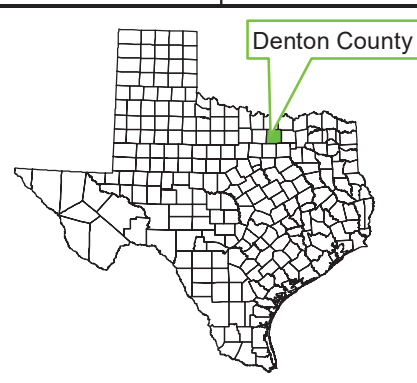
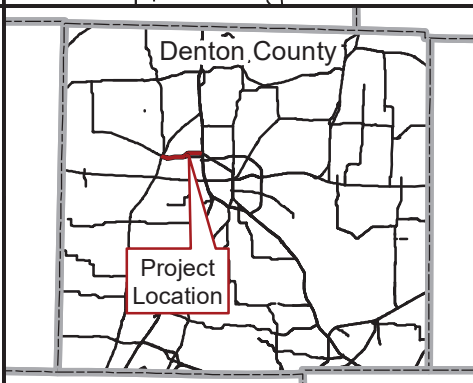
For additional project details, refer to the **Project Location on USGS Topographic Map**, **Project Design Schematic** and **Hazardous Materials Project Photographs** attachments.



Base Map Source: Denton County (USCB, 2010).

Legend

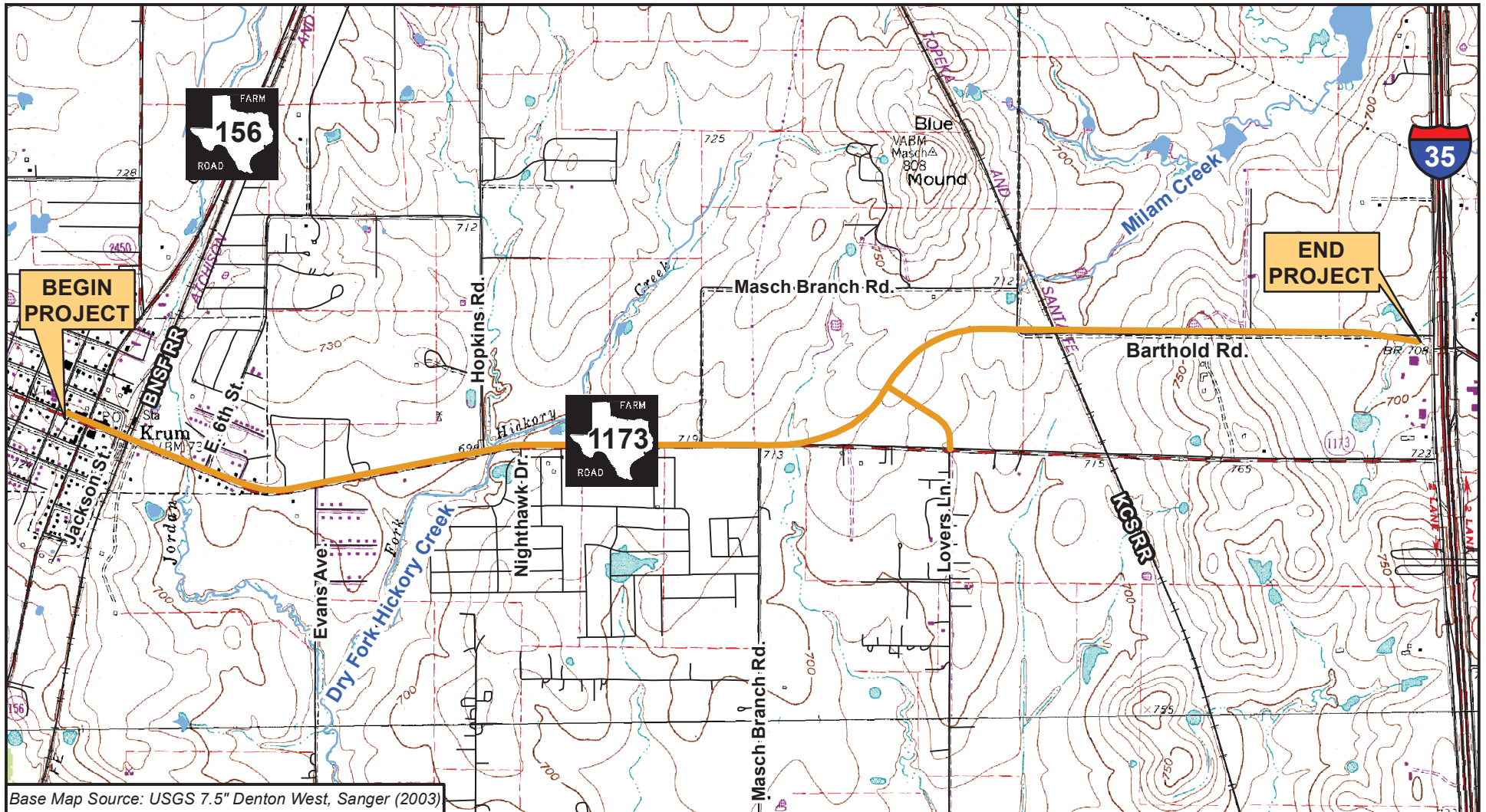
- Project Location
- Road/Highway
- Lake/Pond
- Creek/Stream
- Railroad



0 2,000
Feet



FIGURE 1
PROJECT LOCATION MAP
FARM-TO-MARKET ROAD (FM) 1173
FROM FM 156
TO INTERSTATE HIGHWAY 35 (IH 35)
DENTON COUNTY
CSJs: 1059-01-047 & 1059-02-002



Legend

- Project Location
- Road/Highway
- Lake/Pond
- Creek/Stream
- Railroad

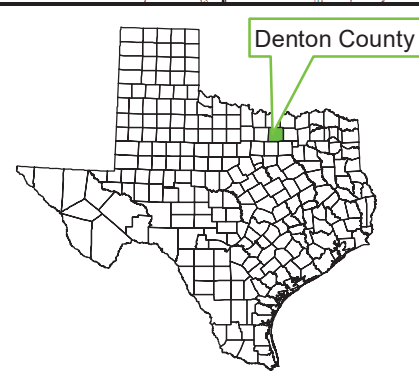
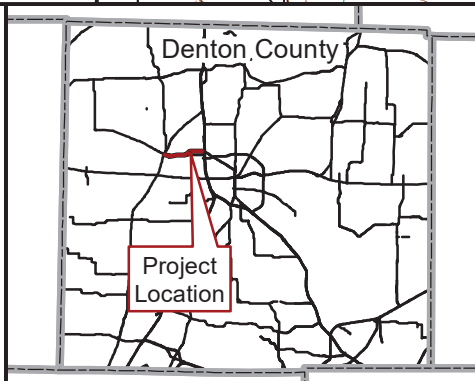


FIGURE 2 TOPOGRAPHIC MAP

FARM-TO-MARKET ROAD (FM) 1173
FROM FM 156
TO INTERSTATE HIGHWAY 35 (IH 35)
DENTON COUNTY
CSJs: 1059-01-047 & 1059-02-002



Hazardous Materials Site Map

Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

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0 250 500 Feet

Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

Base Map Source: TNRIS (2018)



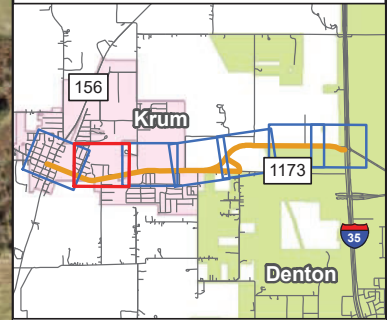
Hazardous Materials Site Map

Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

Page 2 of 7



Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

Base Map Source: TNRIS (2018)



Hazardous Materials Site Map

Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

Page 3 of 7

0 250 500 Feet

Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

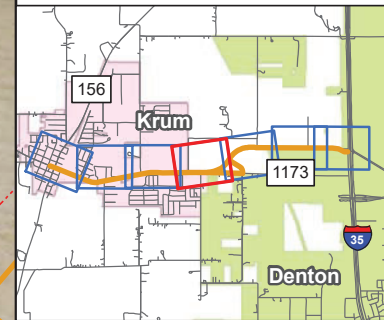
Base Map Source: TNRIS (2018)

Hazardous Materials Site Map Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

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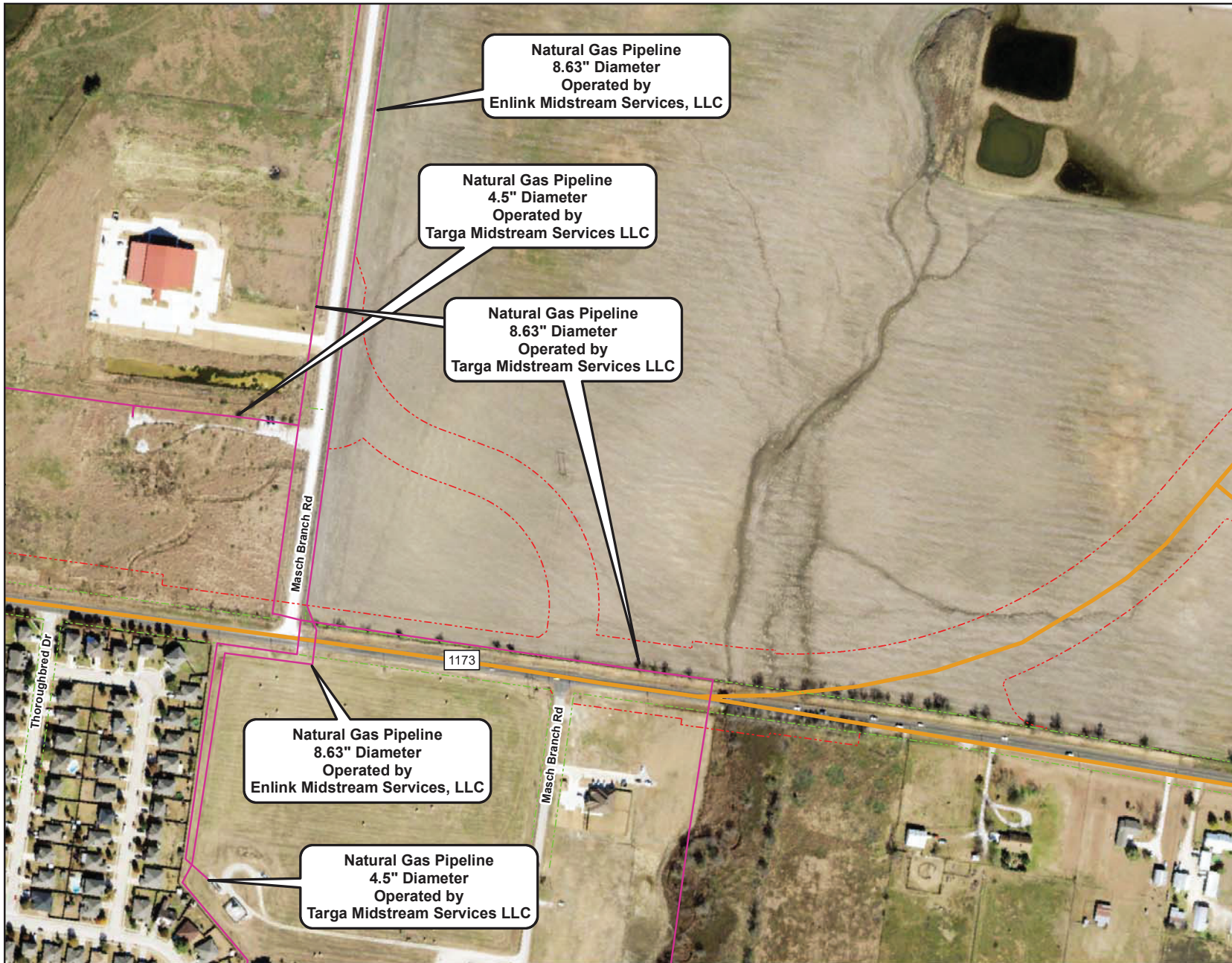


0 250 500
Feet

Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

Base Map Source: TNRIS (2018)



Natural Gas Pipeline
8.63" Diameter
Operated by
Enlink Midstream Services, LLC

Natural Gas Pipeline
4.5" Diameter
Operated by
Targa Midstream Services LLC

Natural Gas Pipeline
8.63" Diameter
Operated by
Targa Midstream Services LLC

Natural Gas Pipeline
8.63" Diameter
Operated by
Enlink Midstream Services, LLC

Natural Gas Pipeline
4.5" Diameter
Operated by
Targa Midstream Services LLC

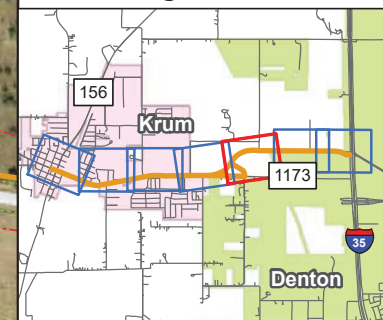
Hazardous Materials Site Map

Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

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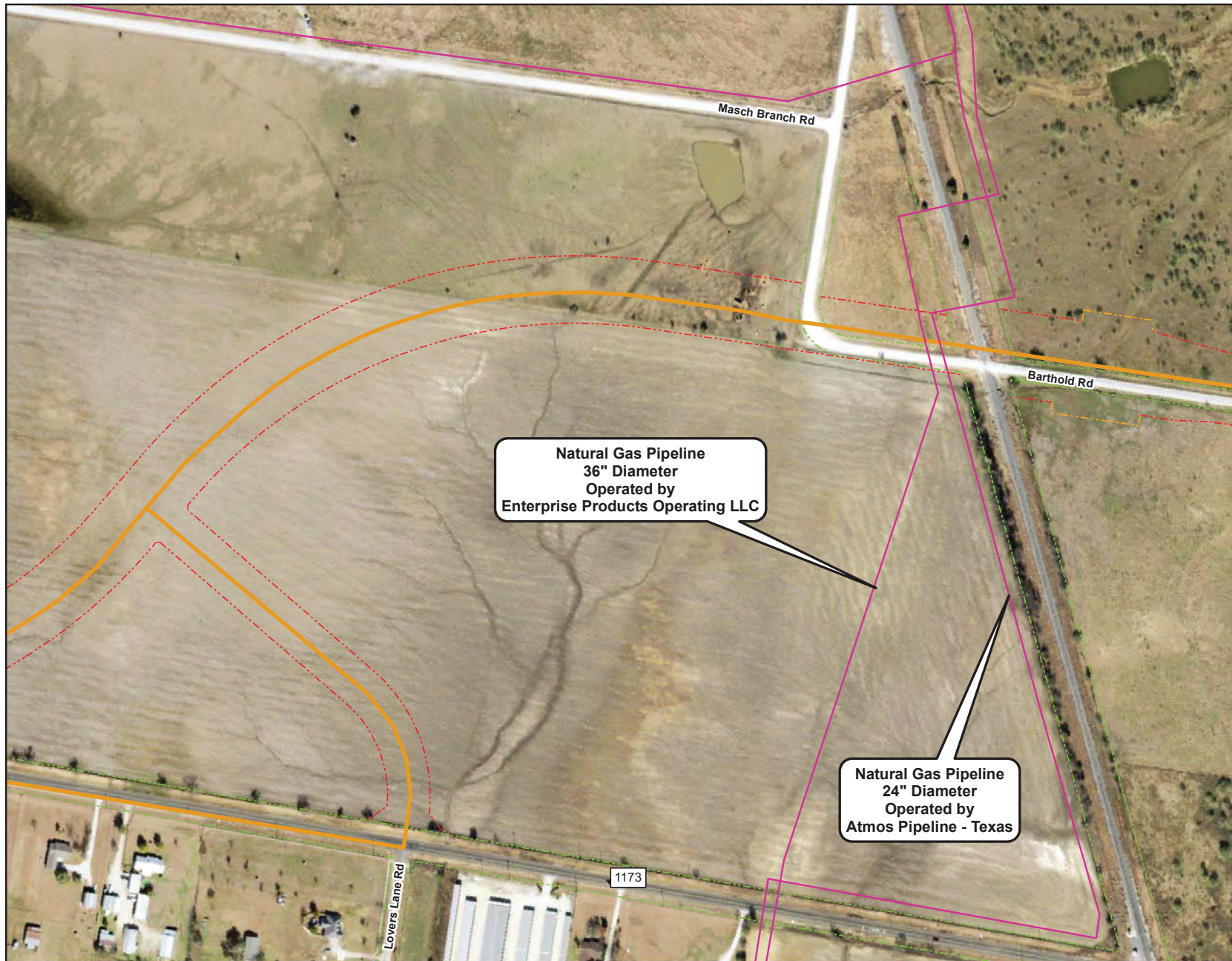


0 250 500 Feet

Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

Base Map Source: TNRIS (2018)





Natural Gas Pipeline
30" Diameter
Operated by
Atmos Pipeline - Texas

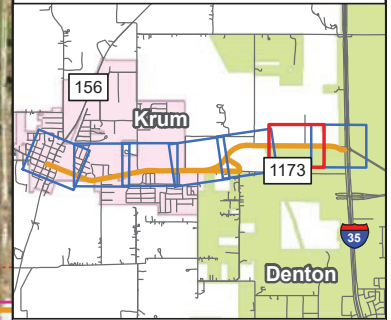
Natural Gas Pipeline
6.63" Diameter
Operated by
Copano FLD
Serv/North Texas, LLC

Hazardous Materials Site Map Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

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0 250 500
Feet

Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

Base Map Source: TNRIS (2018)

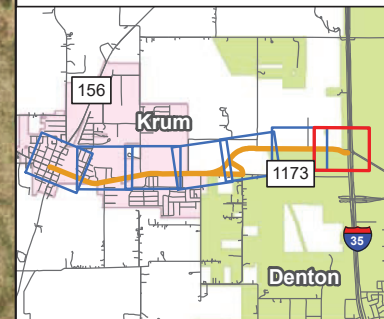
Hazardous Materials Site Map

Farm-to-Market (FM) 1173

From FM 156
To IH 35
Denton County, Texas

CSJ: 1059-01-047
& 1059-02-002

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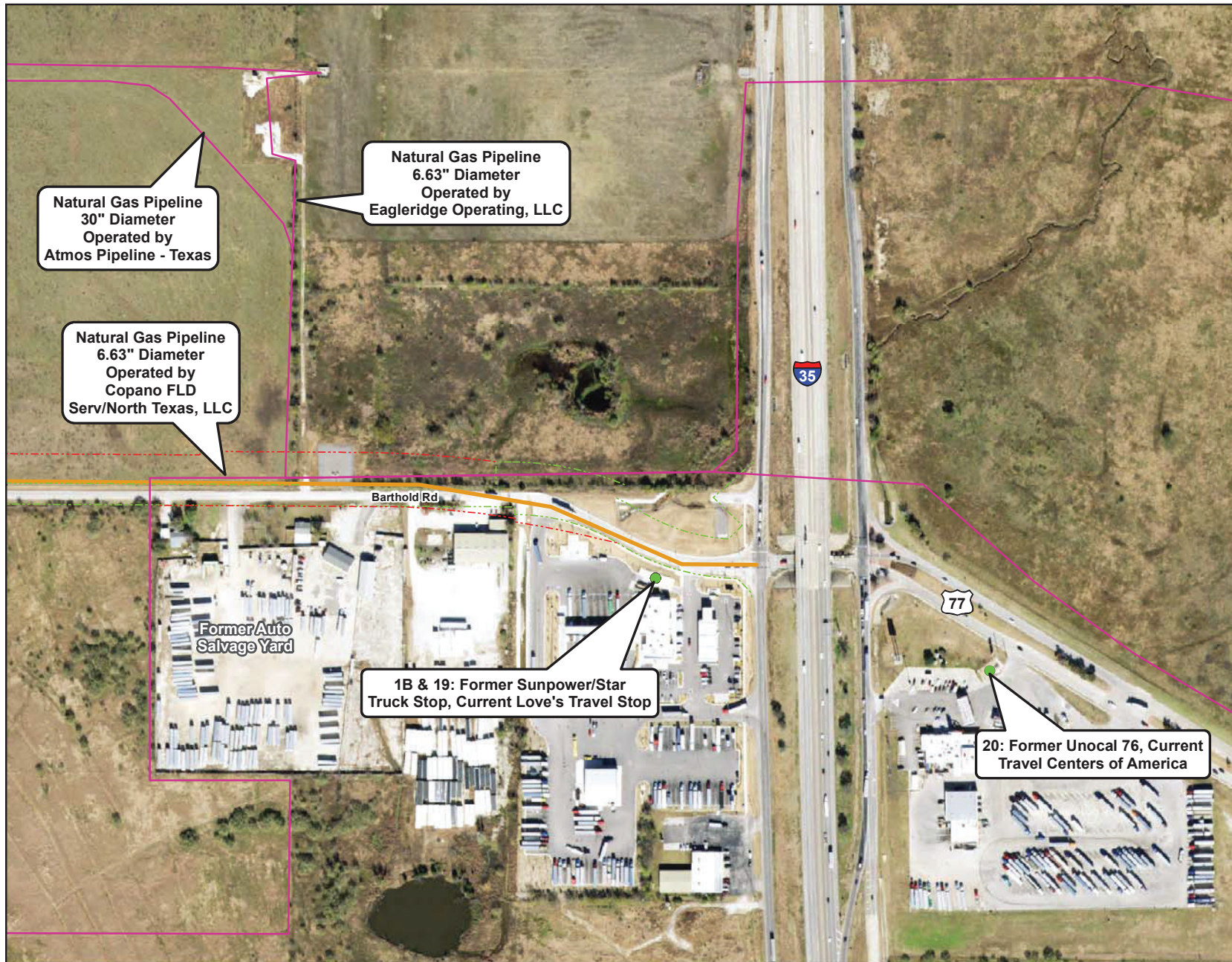


0 250 500
Feet

Legend

- Project Location
- Proposed Right-of-Way
- Proposed Easements
- Existing Right-of-Way
- Natural Gas Pipelines
- Anticipated Project Impacts
- Possible Project Impacts
- Low Potential or No
- Potential for Project Impacts

Base Map Source: TNRIS (2018)





Photograph 1: View looking southeast from the parking lot of Loves Truck Stop at approximate STA 290+00 towards a tank hold at Love Truck Stop site at 6421 N IH 35, Denton, TX 76207 (Map ID 1). Proposed ROW would be acquired from this site. Date of photograph: 3/3/20.



Photograph 2: View looking east from the western driveway of Loves Truck Stop at approximate STA 288+00 towards a tank hold at Love Truck Stop site at 6421 N IH 35, Denton, TX 76207 (Map ID 1). Proposed ROW would be acquired from this site. Date of photograph: 3/3/20.



Photograph 3: View looking east from the eastern driveway of Loves Truck Stop at approximate STA 290+00 towards a propane storage tank at Love Truck Stop site at 6421 N IH 35, Denton, TX 76207 (Map ID 1). Proposed ROW would be acquired from this site. Date of photograph: 3/3/20.



Photograph 4: View looking northeast from the parking lot of Loves Truck Stop at approximate STA 290+00 towards a gas pipeline approximately 96.5 feet north of the Love Truck Stop site at 6421 N IH 35, Denton, TX 76207. Proposed ROW would be acquired from the property the pipeline is on. Date of photograph: 3/3/20.



Photograph 5: View looking east from Bobcat Boulevard at approximate STA 138+00 towards the former PST facility that is now Krum ISD at 1200 Bobcat Boulevard, Krum, TX 76249 (Map ID 4). No proposed ROW would be acquired from this site. Date of photograph: 4/30/20.



Photograph 6: View looking east northeast from the parking lot of Quick Track at approximate STA 143+00 towards the tank hold at the Quick Track site at 920 E McCart Street, Krum, TX 76249 (Map ID 6). No ROW would be acquired from this site. Date of photograph: 3/3/20.



Photograph 7: View looking north from the ROW of FM 1173 at approximate STA 106+50 towards the Krum City Hall parking lot at 102 W. McCart Street, Krum, TX 76249 (Map IDs 7 & 18). No ROW would be acquired from this site. Date of photograph: 4/30/20.



Photograph 8: View looking northeast from the parking lot of Johnny Joes 4 at approximate STA 15+00 on FM 156 (S. 1st Street) towards the tank hold at Johnny Joes 4 site at 100 S. 1st Street, Krum, TX 76249 (Map ID 9). No ROW would be acquired from this site. Date of photograph: 3/3/20.



Photograph 9: View looking south from the ROW of FM 1173 at approximate STA 105+00 towards the D-Bar Farms at 129 W McCart Street, Krum, TX 76249 (Map ID 16). No ROW would be acquired from this site. Date of photograph: 3/3/20.



Photograph 10: View looking southeast from the parking lot of Outback Market at approximate STA 100+00 towards the tank hold at Outback Market at 210 W. McCart Street, Krum, TX 76249 (Map ID 5). No ROW would be acquired from this site. Date of photograph: 4/30/20.



Photograph 11: View looking north from the existing ROW on FM 156 (S. 1st Street) at approximate STA 13+00 towards Vogue Cleaners at 110 S. 1st Street, Krum, TX 76249 (Map ID 10). No ROW would be acquired from this site. Date of photograph: 4/30/20.