

Appendix E  
Environmental Screening  
Documentation

**US 34 MERGE with Mobility Hub, City of Greeley**

Environmental Screening Table

<b>Social, Economic, or Environmental Topic</b>	<b>Considerations</b>	<b>Existing/Planned Conditions</b>
<b>Social and Community</b>	Access to social and institutional resources adjacent to the project area may be impacted during the construction phase of the project.	Social and institutional resources within 0.5 miles of the project area are listed below in <b>Table 1</b> .  There are multiple schools and parks in the area, but otherwise limited public, civic, or religious buildings in the vicinity of the project.
<b>Environmental Justice (EJ)</b>	Approximately 37% of the population within a 0.5-mile buffer is considered minority. Avoid/mitigate disproportionate impacts to low income and minority populations.	There are several households within the buffer zone of the project area that are considered below the poverty level. The proposed mobility corridor encompasses numerous BIPOC populations, approximately 37% within the buffer area, and even higher in specific locations along the corridor. Andy’s Place, a public housing facility, is located adjacent to the project area at 2831 W 28 <sup>th</sup> Street. Additionally, several households use public transportation which increases the benefit of the added mobility hub. <b><u>A more in-depth review of other EJ factors will be needed as the project continues.</u></b>
<b>Noise</b>	Type I roadway improvements with the addition of grade-separated interchanges at 47 <sup>th</sup> and 35 <sup>th</sup> Avenues.	Proposed conceptual design adds on and off-ramps to US 34 through grade-separated interchanges. Possible noise impacts to sensitive noise receptors – residential land uses, City parks and trails, schools, churches and commercial land uses.
<b>Air Quality</b>	EV Charging station open on Centerplace Drive near proposed Mobility Hub	Existing condition of an EV Charging Station provides an opportunity for reduced greenhouse gas emissions in the vicinity of the MERGE project. Proposed Mobility Hub reduces single occupancy vehicle trips by connecting to transit and other micromobility options.
<b>Rare Natural Features</b>	Nine federally listed species were identified in a USFWS IPaC review of the proposed project area (see <b>Table 2</b> below).  There are no critical habitats within the project area.	The proposed project should incorporate wildlife friendly construction methods and materials such as surmountable curbs, wildlife-friendly erosion control materials, pollinator-friendly and other native vegetation post-construction, and reduced or no pesticide use.
<b>Public Waters Inventory (PWI)</b>	No public water basins or watercourses fall within the study area.  Although no public waters are found within the study area, Ashcroft Draw, a tributary of	The proposed project corridor is located within the South Platte River watershed and the <a href="#">South Platte Basin Implementation Plan</a> provides additional guidance. Urban land-use may increase the potential for non-point source pollution along and adjacent to the corridor and best

Social, Economic, or Environmental Topic	Considerations	Existing/Planned Conditions
	the South Platte River, is found less than one mile away ( <b>Exhibit B</b> ).	management practices should be implemented to avoid and minimize potential impacts.
<b>National Wetlands Inventory (NWI)</b>	The Loveland & Greeley Canal, with fringing wetlands, crosses through the project area just east of 26 <sup>th</sup> Avenue and between 32 <sup>nd</sup> and 33 <sup>rd</sup> Avenues. Wetlands classified as PEM1A, PEM1F and PUBF are located near or adjacent to the project area ( <b>Exhibit C</b> ).	Wetland areas should be protected from impacts both during and post-construction with appropriate and recommended methods. <b><u>Field survey to confirm wetland delineation boundaries may be required.</u></b>
<b>Source Water Protection</b>	There are no known wells within the study area, although several are identified adjacent to or within 0.5 miles ( <b>Exhibit D</b> ).	Avoid potential contaminants entering the water supply through proactive avoidance measures prior to and during construction activities. Coordination with local and state authorities may alleviate potential impacts.
<b>Cultural Resources</b>	There are no NRHP-listed properties within 1 mile of the project area ( <b>Exhibit E</b> ). However, there are 12 unlisted properties and 1 property that has previously been determined eligible that overlaps the project area ( <b>Table 3</b> ).	Given the history of previous ground disturbance and prior survey within the project area ( <b>Table 4</b> ), there is unlikely to be any impact upon the identified cultural resources; however, <b><u>the proposed project should be submitted for review to the Colorado SHPO as well as THPOs identified in Table 5 below.</u></b>
<b>Section 4(f) Resources</b>	FHWA coordination for impact assessment to Homestead Park and Gateway Lakes Natural Area	Conceptual design shows proposed pathway connection from future Mobility Hub under existing US 34 to Homestead Park and Gateway Lakes Natural Area. Proposed pathway connection lies within public park/natural area (owned by City of Greeley). Additionally, there's a multiuse path along the northern side of US 34 between 47 <sup>th</sup> and 35 <sup>th</sup> Avenues and Greeley West Park adjacent to Greeley West High School.
<b>Visual Resources</b>	Homestead Park and Gateway Lakes Natural Area and Sunset Memorial Cemetery on south side of US 34 eastbound	The proposed conditions of US 34 at the Mobility Hub would raise existing US 34 approximately 10 feet which would make this roadway more visible from Homestead Park and Gateway Lakes Natural Area and Sunset Memorial Cemetery on south side of US 34 eastbound. <b><u>Conduct Visual Impact Assessment and aesthetics review.</u></b>
<b>CO Dept of Public Health &amp; Environment – Hazardous Materials &amp; Waste Management Division (HMWMD)</b>	A variety of hazardous waste generators and permit considerations are located within or near the study area ( <b>Exhibit F</b> ).	In the US 34 PEL (December 2017, Figure B-8 identified an existing 'HazMat Site of Concern' along US 34 between 47 <sup>th</sup> Ave. and 35 <sup>th</sup> Ave. Name of the HazMat Site – Hyland Enterprises Inc. spill, and description – tank containing flaming material leaked while driving, everything was cleaned up.

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	Site study included Resource Conservation Recovery Act (RCRA) sites, Waste Tire Registrants, Solid Waste Facilities, and information regarding Disproportionately Impacted Communities.	<b><u>Recommend a Phase 1 Environmental Site Assessment (ESA) to identify potential hazardous materials or project impacts for site-specific locations. This will determine if more in-depth (Phase 2 ESA or other assessments) surveys or studies are warranted.</u></b>
<b>Permits, Approvals &amp; Additional Reviews</b>	Local, State and Federal Regulations	<ul style="list-style-type: none"> <li>• USACE – Sec 404 – if wetland impacts occur</li> <li>• USFWS – Federal species review</li> <li>• CDOT Water Resources approval</li> <li>• CDOT/CPW – T&amp;E species reviews</li> <li>• SHPO/THPO – Cultural resources reviews</li> <li>• Stormwater Pollution Prevention (SWPPP)</li> <li>• Water Appropriations – if needed</li> <li>• Source water protection review</li> <li>• Karst topography review</li> <li>• Visual quality and aesthetics review</li> <li>• Air/Dust &amp; Noise Analysis reviews</li> <li>• Climate Change and Greenhouse Gas reviews</li> <li>• Traffic management and access review</li> <li>• Accessibility (ADA) review</li> <li>• Best management practices (invasive species, vegetation practices, etc.)</li> <li>• Weld County Conservation District review</li> <li>• City of Greeley approvals</li> </ul>

**Table 1: Social and Institutional Resources Within 0.5 Miles of Project Area**

Resource Type	Resource Name	Resource Location	Distance from Project Area
Cemetery	Sunset Memorial Gardens	3400 W 28 <sup>th</sup> Street	Adjacent
Church	Trinity Lutheran Church and School	3000 35 <sup>th</sup> Avenue	Adjacent
Civic	Central Colorado Water Conservancy District	3209 W 28 <sup>th</sup> Street	Adjacent
Park	Josephine B Jones Park	5300 26 <sup>th</sup> Street	Adjacent
Park	Monfort Park	2122 50 <sup>th</sup> Avenue	0.17 miles
Park	Leavy Park	33 <sup>rd</sup> Avenue/22 <sup>nd</sup> Street	0.23 miles
Park	Brentwood Park	1607 C Street	0.29 miles
Park	Gateway Lakes Natural Area and Homestead Park	3699 W 29 <sup>th</sup> Street	0.29 miles
Park	Greeley West Park	3900 W 22 <sup>nd</sup> Street	0.36 miles
Park	Sanborn Park	2031 28 <sup>th</sup> Avenue	0.45 miles
School	Frontier Charter Academy	2560 W 29 <sup>th</sup> Street	0.15 miles
School	Greeley West High School	2401 35 <sup>th</sup> Avenue	0.27 miles
School	Brentwood Middle School	2600 24 <sup>th</sup> Ave Court	0.28 miles
School	Meeker Elementary School	2221 28 <sup>th</sup> Avenue	0.45 miles

**Table 2: Endangered Species Act Species**

Group	Species Name	Common Name	Status
Mammals	<i>Canis lupus</i>	Gray Wolf	Endangered
Mammals	<i>Zapus hudsonius preblei</i>	Preble's Meadow Jumping Mouse	Threatened
Birds	<i>Laterallus jamaicensis ssp. Jamaicensis</i>	Eastern Black Rail	Threatened
Birds	<i>Charadrius melodus</i>	Piping Plover	Threatened
Birds	<i>Grus americana</i>	Whooping Crane	Endangered
Fishes	<i>Scaphirhynchus albus</i>	Pallid Sturgeon	Endangered
Insects	<i>Danaus plexippus</i>	Monarch Butterfly	Candidate
Flowering Plants	<i>Spiranthes diluvialis</i>	Ute Ladies'-tresses	Threatened
Flowering Plants	<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	Threatened

**Table 3: Cultural Resource Properties Within 1 Mile of Project Area**

Site Number	Site Name	Description	Distance from Project Area	NRHP Status	Potential Effects
5WL.898	Loveland/Greeley Canal	Historic Canal	Overlaps	Determined Eligible	Possible
5WL.899	Grapevine Ditch	Historic Ditch	Overlaps	Determined Not Eligible	Possible

Site Number	Site Name	Description	Distance from Project Area	NRHP Status	Potential Effects
5WL.4347	Eisenman Farm- Eisenknock Farm- Stephens Farm	Historic Farmstead	0.16 miles	Determined Not Eligible	None
5WL.8357	John Evans Middle School	Historic School (Demolished)	0.35 miles	Undetermined	None
5WL.6898	Macedo Residence	Historic House	0.45 miles	Determined Not Eligible	None
5WL.6937	Loftus House	Historic House	0.54 miles	Determined Not Eligible	None
5WL.7228	-	Historic House	0.74 miles	Recommended Not Eligible	None
5WL.6319	-	Historic House	0.75 miles	Determined Not Eligible	None
5WL.6349	Adams House – Pagano House	Historic House	0.78 miles	Determined Not Eligible	None
5WL.6931	Wideman House- Tupper Residence	Historic House	0.80 miles	Determined Not Eligible	None
5WL.3166	Weld-Greeley-Rosedale Transmission Line	Historic Transmission Line	0.97 miles	Determined Not Eligible	None
5WL.7437	West Greeley Water Tower	Historic Water Tower	1.0 mile	Recommended Not Eligible	None
5WL.5538	-	Historic Feature (Concrete Slab)	1.0 mile	Recommended Not Eligible	None

**Table 4: Previous Cultural Resource Surveys Within the Project Area**

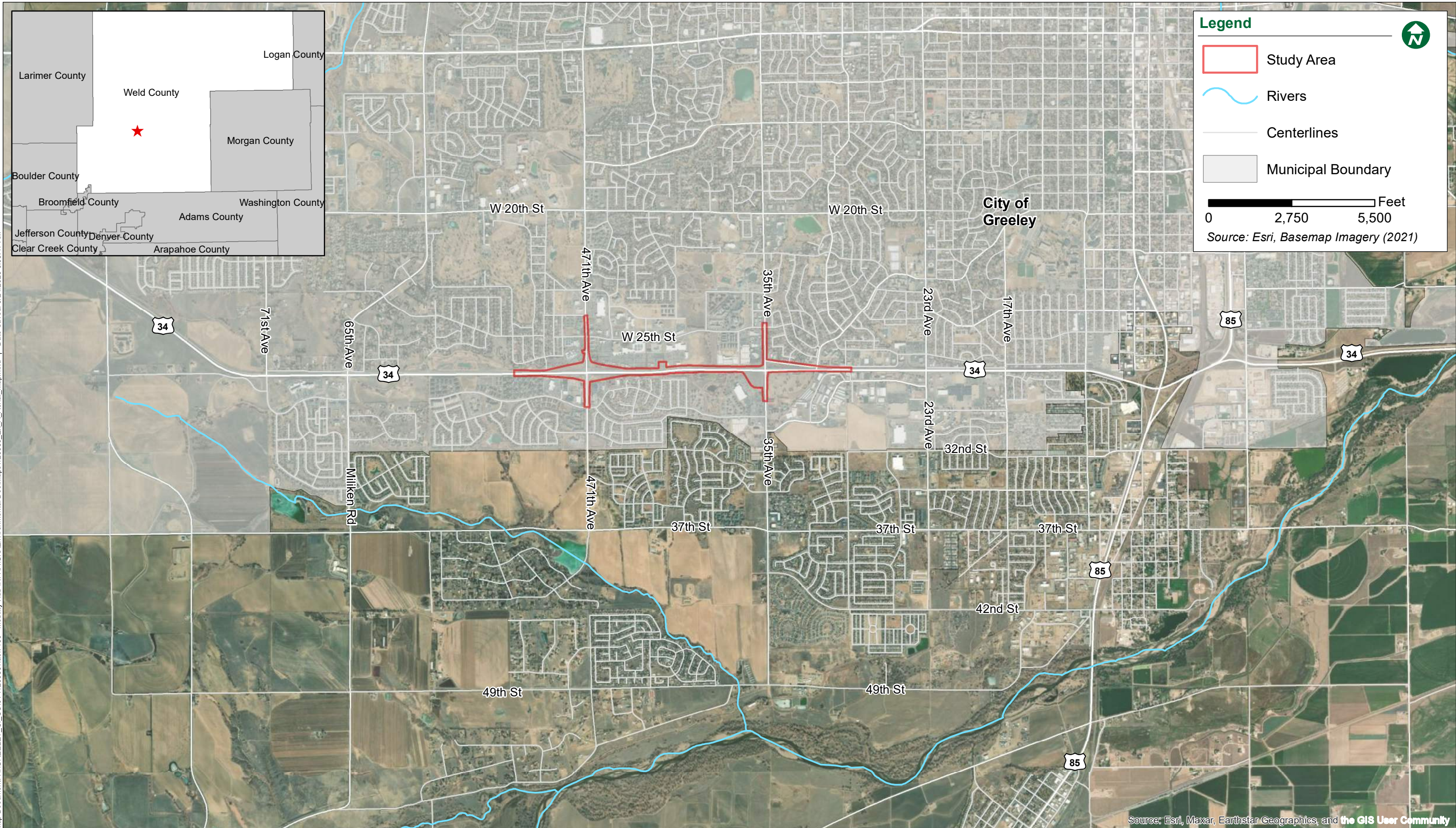
Survey Number	Survey Name	Survey Type	Location	Acres	Date Recorded on COMPASS
WL.CH.NR20	Archaeological Survey of U.S. 34 Between 65 <sup>th</sup> and 35 <sup>th</sup> South and West of Greeley, Weld County, Colorado (Cx Cxbrf 03-0034-21)	Class III	Along U.S. 34 between 35 <sup>th</sup> – 65 <sup>th</sup> Ave	13.023	1/3/2022
WL.CH.NR46	Archaeological Survey of Project M 5501-(1), Weld County, Colorado	Class III	Along 47 <sup>th</sup> Ave within Greeley municipal boundary	43.009	2/12/2008

**Table 5: THPOs with Interest in Weld County per TDAT**

Tribal Name	THPO Name	Street Address	Phone	Email
Comanche Nation, OK	Martina Minthorn	6 SW D Ave, Lawton, OK 73502	580-595- 9618	martina.minthorn@comanchenation.com
Arapaho Tribe of the Wind River Reservation, WY	Ben Ridgley	PO Box 67, St. Stevens, WY 82524	307-851- 1254	benridgley007@gmail.com
Northern Cheyenne Tribe of the Northern Cheyenne Indian Reservation, MT	Teanna Limpy	PO Box 128, Lame Deer, MT 59043	406-477- 4839	Teanna.Limpy@cheyennenation.com
Apache Tribe of OK	Bobby Komardley	PO Box 1330, Anadarko, OK 73005	405-247- 9493	bkomardley@outlook.com

<b>Tribal Name</b>	<b>THPO Name</b>	<b>Street Address</b>	<b>Phone</b>	<b>Email</b>
Fort Belknap Indian Community of the Fort Belknap Reservation of MT	Michael Blackwolf	656 Agency Main St, Harlem, MT 59526	406-353-2889	mblackwolf@ftbelknap.org
Cheyenne and Arapaho Tribes, OK	Max Bear	700 Black Kettle Blvd, Concho, OK 73022	405-422-7715	mbear@c-a-tribes.org

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**Legend**

- Study Area
- ~ Rivers
- Centerlines
- Municipal Boundary

0 2,750 5,500 Feet

Source: Esri, Basemap Imagery (2021)





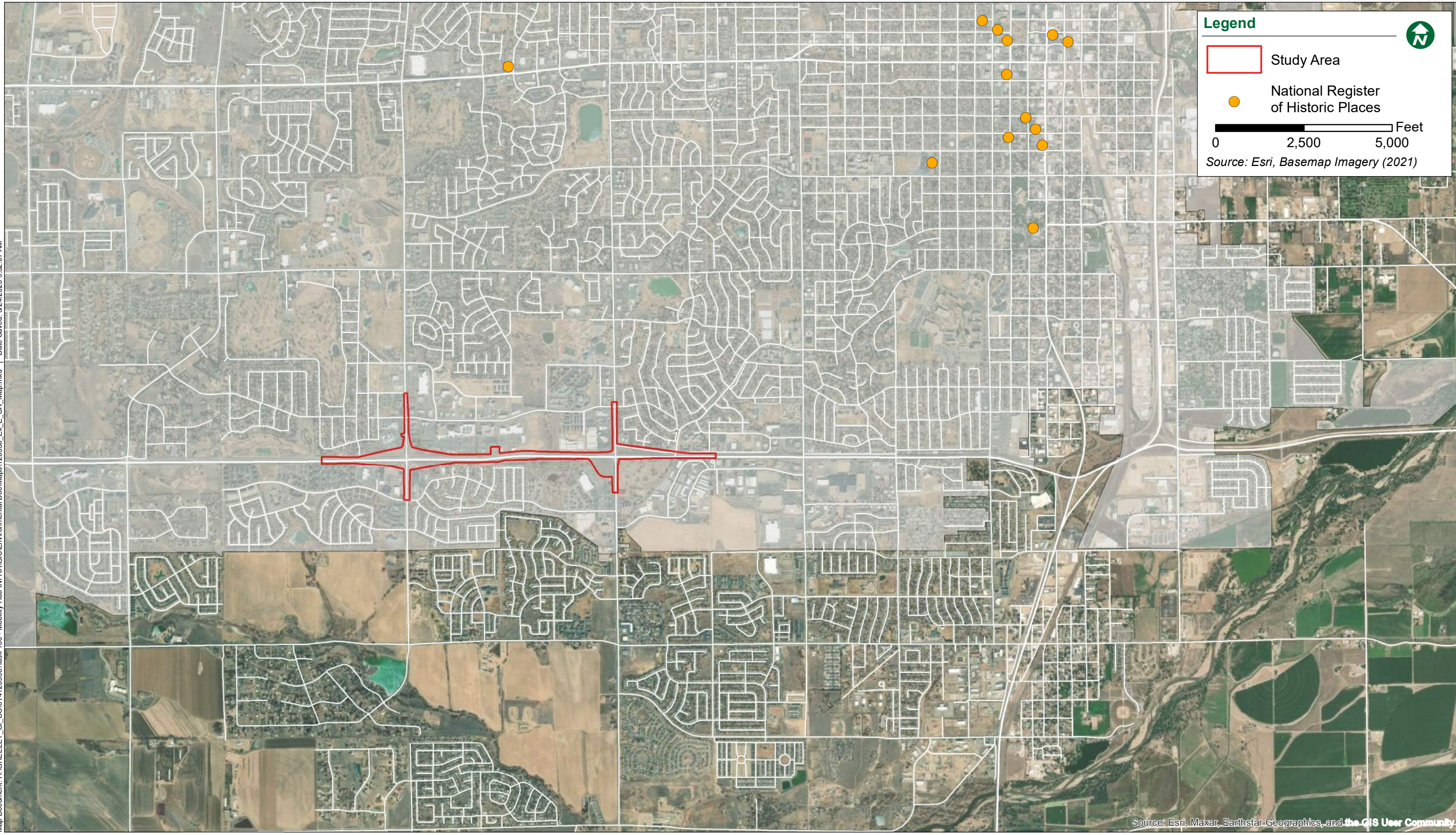
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**Legend**

-  Study Area
-  Resource Conservation and Recovery Act Sites
-  Waste tire registrants

0 1,000 2,000 Feet

Source: Esri, Basemap Imagery (2021)

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