

NEPA ENVIRONMENTAL ASSESSMENT (EA)

GCC Ready Mix Facility

431 West 23rd Street
Tulsa, Tulsa County, Oklahoma 74107

A & M Project Number 2044-0044

Initial Report Date: October 25, 2019 Update Date: September 8, 2023

Prepared For:



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on behalf of:

GCC Ready Mix 431 West 23rd Street Tulsa, Oklahoma 74107



September 8, 2023

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GCC Ready Mix 431 West 23rd Street Tulsa, Oklahoma 74107

REF: National Environmental Protection Act (NEPA) Environmental Assessment (EA) (<u>Update</u>) for the GCC Ready Mix facility located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74107.

Dear Mr. Westervelt:

A & M Engineering and Environmental Services, Inc. (A & M) has completed the enclosed National Environmental Protection Act (NEPA) Environmental Assessment (EA) (<u>Update</u>) for the above referenced site. The NEPA EA has been performed and updated to the best of our ability and interpretation in accordance with the procedural provisions of the NEPA of 1969 (as amended). After review of the NEPA EA, a copy should be forwarded to the United States Army Corps of Engineers (USACE) for their determination for this project.

Thank you for choosing A & M. If you have any questions or require further assistance please contact us at (918) 665-6575 or via email.

Respectfully,

A & M Engineering and Environmental Services, Inc.

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A & M Project No. 2044-0044

Enclosure

TABLE OF CONTENTS

SECTIO	NS PAG	<u>GES</u>
1.0	CERTIFICATION	1
2.0	Introduction	2
2.1	Summary	2
2.2	NEPA EVALUATION	3
3.0	PURPOSE AND NEED FOR ACTION	4
4.0	ALTERNATIVES	5
4.1	No Action (No Build) Alternative	
4.2	Relief from Easements and Commercial Redevelopment (Proposed/Preferred Action)	5
4.3	Alternatives Considered but Eliminated	5
5.0	DESCRIPTION OF THE AFFECTED ENVIRONMENT	6
5.1	LOCATION AND SITE DESCRIPTION	6
5.2	SITE VICINITY AND CHARACTERISTICS	6
5.3	ZONING	6
5.4	LAND RESOURCES	6
5.4.1	TOPOGRAPHY	6
5.4.2	FLOOD ZONING	6
5.4.3	SOIL	7
5.4.4	GEOLOGIC SETTING, MINERAL, AND PALEONTOLOGICAL RESOURCES	7
5.5	Water Resources	8
5.5.1	WETLANDS	8
5.6	Air Quality	8
5.7	LIVING RESOURCES	8
5.7.1	WILDLIFE	
5.7.2	VEGETATION	12
5.7.3	Ecosystems and Biological Communities	12
5.7.4	Agriculture	13
5.8	Cultural Resources	13
5.8.1	HISTORIC, CULTURAL, AND RELIGIOUS PROPERTIES	13
5.9	Archeological Resources	
5.10	SOCIOECONOMIC CONDITIONS	15
5.10.1	EMPLOYMENT AND INCOME	15
5.10.2	DEMOGRAPHIC TRENDS.	
5.10.3	LIFESTYLE AND CULTURAL VALUES	
5.10.4	Community Infrastructure (Public Services and Utilities)	
5.10.5	Environmental Justice Considerations	16
5.11	RESOURCE USE PATTERNS.	
5.11.1	HUNTING, FISHING, AND GATHERING	
5.11.2	TIMBER HARVESTING	_
5.11.3	Agriculture	
5.11.4	MINING	17
5 11 5	RECREATION	17

5.11.6	Transportation Needs	17
5.11.7	LAND USE PLANS	17
5.12	OTHER VALUES	17
5.12.1	WILDERNESS	17
5.12.2	Noise and Light	17
5.12.3	VISUAL	18
5.12.4	Public Health and Safety	18
5.12.5	Climate Change (Greenhouse Gases)	18
5.12.6	Indian Trust Assets	18
5.12.7	Hazardous Materials	18
6.0	ENVIRONMENTAL EFFECTS CIVIC	19
6.1	LAND RESOURCES	19
6.2	Water Resources	20
6.3	Air Quality	21
6.4	LIVING RESOURCES	21
6.5	Cultural Resources	23
6.6	Socioeconomic Resources	23
6.7	Resource Use Patterns	24
6.8	OTHER VALUES (NOISE AND VISUAL/AESTHETIC)	25
7.0	CONSULTATION AND COORDINATION	26
7.1	AGENCY RESPONSES	27
8.0	PROFESSIONAL QUALIFICATIONS	30
9.0	REFERENCES	31

Tables

Table 1	Threatened and Endangered Species
Table 2	Migratory Birds of Concern

Table 3 Available Utilities
Table 4 Consultation Requests

Table 5 Agency Responses

Appendices

Appendix A	Figures
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Appendix B Photographic Record

Appendix C Endangered Species Information

Appendix D EDR NEPA Report Appendix E NRCS Soil Report

Appendix F Consultation Letters
Appendix G Consultation Responses

Appendix H US Census Information

Appendix I Best Management Practices
Appendix J Professional Qualifications

List of Figures (Appendix A)

Figure 1	Vicinity Map
Figure 2	Topographic Map
Figure 3	Site Layout Map
Figure 4	Flood Map
Figure 5	Soil Map
Figure 6	Geology Map
Figure 7	National Wetlands Inventory Map
Figure 8	Historic Properties Map
Figure 9	Wildlife Conservation and Management Area Map

1.0 CERTIFICATION

This National Environmental Policy Act (NEPA) Environmental Assessment (EA) has been prepared and updated to the best of our ability and interpretation in accordance with the procedural provisions of the NEPA of 1969 (as amended) for the GCC Ready Mix facility located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74107. This NEPA EA has been prepared in accordance with acceptable practices including a site inspection, federal and state agencies record review, and correspondence with site representatives. The information is, to the best of our knowledge and belief, true, accurate, and complete.

Justin Scott

Environmental Specialist

A & M Engineering and Environmental Services, Inc.

September 8, 2023

2.0 INTRODUCTION

(43 C.F.R. § 46.310)

A & M Engineering and Environmental Services, Inc. (A & M) was contracted by Mr. Dan Tanner (Engineer of Record of GCC) on September 18, 2019 to perform a NEPA Environmental Assessment (EA) on the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74107, henceforth referred to as the "Site". The Site is located along the west bank of the Arkansas River in Tulsa, Tulsa County, Oklahoma and falls within Section 14, Township 19 North, Range 12 East of the Indian Meridian, Tulsa County, Oklahoma. The Site encompasses an irregularly shaped property that reportedly measures 26.72 acres and is located adjacent to the western bank of the Arkansas River and West 23rd Street.

Presently, the Site consists mostly of concrete-paved areas for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas to the western, southern, and eastern portions of the Site. The Site contains a portion of Tulsa County Levee District 12 and is encumbered by two drainage easements on its eastern half. Commercial redevelopment has been proposed for the Site.

In order to grant relief from the Tulsa County drainage easement, Tulsa County Levee District 12 has requested that the United States Army Corps of Engineers (USACE) review and approve the conceptual development plans pursuant to USACE Section 408 policy, stated in the document Engineer Circular No. 1165-2-220 – Appendix C – Categorical Permissions.

This National Environmental Protection Act (NEPA) Environmental Assessment (EA) has been prepared to identify and address the potential environmental effects of developing the 26.72-acre Site and if the proposed development will have a "significant" effect on human health and the environment. The NEPA of 1969 establishes national environmental policy and goals for the protection, maintenance, and enhancement of the environment and it provides a process for implementing these goals within federal agencies. This EA will assist the USACE in determining if the Proposed Action is in compliance with NEPA.

The data and information for this document was obtained and compiled by A & M; however, certain tasks, data, and information were provided by Mr. Joe Westervelt, Consultant of Mapleview Associates LLC and consultant for GCC Ready Mix (GCC). A & M has relied on the information provided. All data and information are included in this document.

2.1 SUMMARY

The Proposed Action would approve the requested relief from the two (2) drainage easements on the Site's eastern half in anticipation of commercial redevelopment. According to the Tulsa County Assessor, the Site consists of 26.72 acres currently owned by Mid-Continent Concrete Company, Inc (GCC).

The Site coordinates are: Latitude 36.1321°, Longitude -95.9972°.

A Vicinity Map (Figure 1), Topographic Map (Figure 2), and Site Layout (Figure 3) are provided in Appendix A (Figures). Site photographs are provided in Appendix B (Photographic Record).

2.2 NEPA EVALUATION

A & M evaluated the following resources and information to determine if the approval of the requested relief from the two (2) drainage easements on the Site's eastern half in anticipation of commercial redevelopment would have a significant effect on the quality of human health and the environment and if additional environmental assessment is necessary. The criteria, background information, collected data and analysis, professional opinion, and rationale for determination of environmental effect are presented below.

The evaluation consisted of the following:

- Examination of land status maps.
- Local government correspondence.
- Review of National Flood Insurance Rate Maps.
- Review of the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (iPac) website regarding Threatened and Endangered Species.
- Review of records on file with the Oklahoma State Historic Preservation Office (SHPO) and the Oklahoma Archeological Survey.
- Tribal correspondence, letters, and reports.
- Review of construction plans (if available) and discussion with site development representatives.
- Site and vicinity reconnaissance.

USACE will use this NEPA EA to determine whether or not the Proposed Action (defined in Section 4.2) would result in adverse effects to the environment. This NEPA EA will also be used to determine whether a Finding of No Significant Impact (FONSI) or an Environmental Impact Statement (EIS) is appropriate for the Proposed Action.

3.0 PURPOSE AND NEED FOR ACTION

(43 C.F.R. § 46.310(a)(1-2))

The Proposed Action would approve relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. According to Mr. Westervelt and information available from the Tulsa County Assessor, the Site consists of approximately 26.72 acres currently owned by GCC. In order to determine that the proposed redevelopment can be undertaken without detrimental impact to the Tulsa County levee bisecting the property, Tulsa County District 12 has asked that a 408 permit be processed with USACE. A NEPA EA is required as part of the 408 permit being sought.

4.0 ALTERNATIVES

(43 C.F.R. § 46.310(a)(4))

This section describes the alternatives that are analyzed within this NEPA EA. These alternatives include the Proposed Action and the No Action Alternative. A reasonable range of alternatives has been identified based on consideration of the purpose and need, which included consideration of commercial redevelopment of the Site without relief from the current drainage easements. These additional alternatives were determined not to be reasonable based on the factors discussed below, and therefore were not carried forward and analyzed in this NEPA EA.

4.1 NO ACTION (NO BUILD) ALTERNATIVE

The No Action Alternative would result in the existing property remaining as it is and continue use as a concrete batch mixing plant with no change in the overall land classification or use. Proposed structures would not be constructed, and property would remain encumbered by the current Tulsa County Levee District 12 drainage easements. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

4.2 RELIEF FROM EASEMENTS AND COMMERCIAL REDEVELOPMENT (PROPOSED/PREFERRED ACTION)

This preferred alternative would result in the approval of relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Construction activities would include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, remove trees and shrubs and plant new foliage for landscaping, and construct new buildings. Additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

4.3 ALTERNATIVES CONSIDERED BUT ELIMINATED

The intent of the analysis of alternatives in the NEPA EA is to present to decision makers and the public with a range of alternatives that are both reasonable (which includes being feasible) and sufficiently different from each other in critical aspects. NEPA's implementing regulations at 40 C.F.R. § 1502.14(a) require a discussion of alternatives that were eliminated from further study, and the reasons for those alternatives having been eliminated. The alternatives discussed herein were considered and rejected from further consideration because these alternatives were deemed infeasible or would not fulfill the purpose and need of the Proposed Action, and are therefore not reasonable.

Commercial Redevelopment without Relief from Easements

Commercial Redevelopment of the Site without relief from the two (2) drainage easements on the eastern Portion of the Site was considered. Easement interests are unique because the easement limits the fee landowner's ability to use the surface of the land for purpose. At the Site, the easements currently prohibit the construction of structures that impair the ability to flow water on the land. The drainage easements affect nearly 25% of the total Site area; based on the extent of this effect, commercial redevelopment without relief from easements was deemed infeasible.

5.0 DESCRIPTION OF THE AFFECTED ENVIRONMENT

(43 C.F.R. § 46.310(a)(3))

This section describes the existing environment for the proposed Site.

5.1 LOCATION AND SITE DESCRIPTION

The Site is located at 431 West 23rd Street along the west bank of the Arkansas River in Tulsa, Tulsa County, Oklahoma, and falls within Section 14, Township 19 North, Range 12 East of the Indian Meridian, Tulsa County, Oklahoma. The Site is situated in the northeast portion of the State of Oklahoma and on the western side of the City of Tulsa, Oklahoma. The property encompasses an irregularly shaped property that reportedly measures 26.72 acres.

A Vicinity Map (Figure 1) and a Topographic Map (Figure 2) are presented in Appendix A (Figures).

5.2 SITE VICINITY AND CHARACTERISTICS

The 26.72-acre Site consists mostly of concrete-paved areas for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas to the western, southern, and eastern portions of the Site. The Site can be accessed from the southern entrance along West 23rd Street and from the northwest corner from West 21st Street connected to South Jackson Avenue.

Surrounding properties consist of: River West Festival Park to the north; a bike path and the Arkansas River to the east; West 23rd Street to the south with the River Skate Park, West Maintenance Yard, and City of Tulsa Office beyond; and a railroad and South Jackson Avenue to the west with Landa Mobile Systems, FirstLine Filters, and multi-family housing beyond.

A Site Layout Map (Figure 3) is presented in Appendix A (Figures). A Photographic Record is presented in Appendix B.

5.3 ZONING

The Site is currently zoned IM (Industrial-Moderate), which permits a range of commercial and industrial uses. The current and proposed uses of the Site conform with the current zoning designation.

5.4 LAND RESOURCES

The following sections summarize the review of physical setting resources performed as part of this NEPA EA.

5.4.1 Topography

The Site has a gentle slope to the east and surface drainage flows to the east towards the Arkansas River. According to the Topographic Map of the Tulsa 7.5-Minute Quadrangle 2019, the elevation of the Site ranges from about 625 feet to 640 feet above Mean Sea Level (MSL).

A Topographic Map (Figure 2) is provided in Appendix A (Figures).

5.4.2 Flood Zoning

According to the Federal Emergency Management Agency (FEMA) Map Service Center and a NEPA Report provided by Environmental Data Resources (EDR), the majority of the Site is within the 0.2% annual chance floodplain, except the southern portion of the Site, which is outside of a flood zone.

A Flood Map (Figure 4) is provided in Appendix A (Figures).

5.4.3 **Soil**

According to the Custom Soil Survey Report of Tulsa County Oklahoma, the western and central portions of the surface soil at the Site consists of Choska-Severn-Urban land complex and the eastern portion of the Site is Kiomatia loamy fine sand. A Soil Map (Figure 6) is provided in Appendix A. The following summarizes the soil type components:

- The Choska-Severn-Urban Complex makes up about 86 percent of the map unit. The Choska component was deposited from stream terraces and is composed of very fine sandy loam that grades to silt loam. The soil has 0 to 1 percent slopes and runoff class is low. Depth to a restrictive layer (root, bedrock, or paralithic) is greater than 80 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high to high. Available water to a depth greater than 80 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded or ponded and does not meet hydric criteria. The Severn component is found on loamy floodplains. The parent material consists of very fine sandy loam and stratified loamy very fine sand to silty clay loam weathered from calcareous loamy and silty alluvium. Slopes are 0 to 1 percent. Depth to a restrictive layer (root, bedrock, or paralithic) is greater than 80 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low to high. Available water to a depth greater than 80 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded or ponded and does not meet hydric criteria. The Urban component has slopes between 0 to 1 percent. The runoff class is very high. Water movement in the most restrictive layer is moderately low to high. Shrink-swell potential is low. This soil is not flooded or ponded and does not meet hydric criteria.
- The Kiomatia component makes up about 14 percent of this map unit. Slopes are 0 to 1 percent. The parent material consists of loamy fine sand to stratified fine sand to loam residuum weathered from calcareous sandy alluvium. Depth to a restrictive layer (root, bedrock, or paralithic) is greater than 80 inches. The natural drainage class is welled drained. Water movement in the most restrictive layer is moderately high to high. Available water to a depth greater than 80 inches (or restricted depth) is low. Shrink-swell potential is high. This soil frequently floods but does not meet hydric criteria.

A Soil Map (Figure 5) is provided in Appendix A (Figures).

5.4.4 Geologic Setting, Mineral, and Paleontological Resources

The geological setting was reviewed from Oklahoma Geological Survey - Hydrologic Atlas of the Tulsa and Enid Quadrangles dated 1971 and 1980. The Site and surrounding areas are underlain by Holocene alluvium. This unit consists of gravel, sand, silt, and clay. The underlying bedrock units are the Pennsylvanian aged Coffeyville and Checkerboard Formations. The Coffeyville Formation is a shale interbedded with fine to medium-grained sandstone with thin coal seams. Total thickness within the Tulsa Quadrangle ranges from 120 to 130 feet. The Checkerboard Formation is a limestone with some shale. Thickness within the Tulsa Quadrangle is a consistent three (3) feet.

The Geology Map (Figure 6) is provided in Appendix A (Figures).

5.5 WATER RESOURCES

Groundwater data for the gradient direction within the Site area was not reviewed. Since there have been no reported contamination issues for the Site, no site-specific data was available for review. The actual direction of the groundwater flow in the immediate area is unknown; however, the flow is often reflected by the surface topography. Based on this, the expected shallow groundwater flow direction would be to the east towards the Arkansas River. The groundwater gradient however, may be influenced by external factors, including subsurface utilities or historical land use conditions. The Site is located within Arkansas River Watershed, Hydrologic Unit Code (HUC) 11110101.

5.5.1 Wetlands

According to the National Wetlands Inventory, there are no mapped wetlands or other freshwater habitats at the Site. The Arkansas River, located approximately 120 feet east of the Site, is classified as a riverine habitat.

The National Wetlands Inventory Map (Figure 7) is provided in Appendix A (Figures).

5.6 AIR QUALITY

Air quality appeared to be good at the Site with minimal detectable odors and minimal visible fugitive emissions from the concrete batch mixing plant. No detectable odors, visible fugitive emissions, or environmental issues were identified from nearby sources. The proposed project area is located within city limits surrounded by parks, residences, commercial facilities, and the Arkansas River.

5.7 LIVING RESOURCES

The Site is mostly paved with concrete. Landscaped areas and some trees are present along the western, southern, and eastern portions of the Site. Living resources within close proximity of the Site include trees and ground cover vegetation. No significant populations of wildlife or insects are expected to be located within the proposed project area due to the site location within city limits.

5.7.1 Wildlife

The United States Fish and Wildlife Service (USFWS) - Information, Planning and Consultation (IPaC) System search conducted via the USFWS website (dated July 17, 2023) identified the following endangered or threatened species in association with the Site:

Table 1
Threatened and Endangered Species

Species	Status	Critical Habitats	Critical Habitats On-Site?	Determinations
Tricolored Bat	Proposed Endangered	No critical habitat has been designated for this species	N/A	No Jeopardy
Piping Plover	Threatened	Final Rule Designated	No	No Effect
Red Knot	Threatened	Critical habitat rules have been proposed but not published	N/A	No Effect
Alligator Snapping Turtle	Proposed Threatened	Final Rule Designated	N/A	No Jeopardy
American Burying Beetle	Reetle Threatened been designated for this N/A Incident		May Affect, Incidental Take Not Prohibited	
Monarch Butterfly	Candidate	No critical habitat has been published for this species	N/A	No Jeopardy

A summary of these threatened and endangered species is provided below:

• The **Tricolored Bat** (*Perimyotis subflavus*) is one of the smallest bats native to North America. The once common species is wide ranging across the eastern and central United States and portions of southern Canada, Mexico and Central America. During the winter, tricolored bats are found in caves and mines, although in the southern United States, where caves are sparse, tricolored bats are often found roosting in road-associated culverts. During the spring, summer and fall, tricolored bats are found in forested habitats where they roost in trees, primarily among leaves. As its name suggests, the tricolored bat is distinguished by its unique tricolored fur that appears dark at the base, lighter in the middle and dark at the tip.

On September 14, 2022, The U.S. Fish and Wildlife Service (USFWS) announced a proposal to list the tricolored bat as endangered under the Endangered Species Act (ESA). The species faces extinction due primarily to the range-wide impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. At this time, the Tricolored Bat is not listed as either threatened or endangered under the ESA and no action is currently required. Should the status of the Tricolored Bat change during the timeframe of the Proposed Action, additional action may be warranted.

- The Piping Plover (<u>Charadrius melodus</u>), a migratory shorebird species, generally occupies drier portions of broad sandy expanses along rivers and reservoirs with sparse vegetation. While sparse clumps of grass or herbaceous vegetation are important, encroachment of woody vegetation is detrimental to this species. Based on review of aerial photography and site reconnaissance, suitable habitat for the Piping Plover is not present within the Site. Therefore, the Proposed Action will have no effect on the Piping Plover.
- The Red Knot (<u>Calidris canutus rufa</u>) is a migratory shorebird that nests in northern Canada and winters primarily in South America. The migratory path is mainly limited to the Gulf of Mexico and Atlantic coastlines; however, there have been a small number of documented sightings during the migration period along broad shorelines of rivers and lakes in Oklahoma and other areas throughout the interior United States. Based on aerial photography and site reconnaissance, suitable habitat for the Red Knot is not present within the Site. Therefore, the Proposed Action will have no effect on the Red Knot.
- The Alligator Snapping Turtle (<u>Macrochelys temminckii</u>) is the largest freshwater turtle in North America. The primary threats acting on the alligator snapping turtle include habitat loss or modification, harvest and collection, nest predation, and hook ingestion, entanglement, and drowning due to bycatch associated with freshwater fishing. The Alligator Snapping Turtle is almost exclusively aquatic. Except for egg-laying females, this species almost never comes on land. River systems, lakes, and wetland comprise its preferred habitat. At this time, the Alligator Snapping Turtle is not listed as either threatened or endangered under the ESA and no action is currently required. In addition, based on review of aerial photographs and site reconnaissance, no suitable habitat for the Alligator Snapping Turtle is located within the Site and, should the listing status of the Alligator Snapping Turtle change during the timeframe of the Proposed Action, the Proposed Action will have no effect on the Alligator Snapping Turtle.
- The Monarch Butterfly (<u>Danaus plexippus</u>) is a migratory butterfly that breeds in the United States, laying eggs on their obligatory milkweed host plants. In the fall, in both eastern and western North America, monarchs begin migrating to their respective overwintering sites up to 3,000 km to the south. While candidate species have no legal protection, USFWS biologists may recommend ways to reduce adverse effects and/or request studies as appropriate. These may be added as conservation recommendations. Legally, the action agency does not have to implement such recommendations. However, candidate species may later be proposed for listing, making conference necessary in the future if proposed actions are likely to jeopardize the continued existence of such species. Based on the current listing status, no action regarding the Monarch Butterfly is required at this time. In addition, suitable habitat for the Monarch Butterfly is not present within the Site and, should the Monarch Butterfly be proposed for listing as threatened or endangered, the Proposed Action will have no effect on the Monarch Butterfly.

• The American Burying Beetle (Nicrophorus americanus) has been collected from a variety of habitats in Oklahoma: from level areas with loose, well-drained soils, and a well-formed litter layer of previous years' vegetation; from oak-pine and oak-hickory forests; from grasslands and open fields; and along forest edges. Areas considered unsuitable for use by the American Burying Beetle are those that exhibit disturbances such as frequent mowing, grazing, herbicide application to vegetation that is less than 8 inches in height, previously developed lands no longer exhibiting surficial topsoil, leaf litter or vegetation, and areas where monoculture for non-native vegetation occurs. Based on aerial photography and site reconnaissance, suitable habitat for the American Burying Beetle is present in the landscaped areas along the western, southern, and eastern portions of the property. Due to the ongoing maintenance and limited extent of these landscaped areas, the Proposed Action is anticipated to have no effect on the American Burying Beetle. In addition, online consultation with the USFWS IPaC system was conducted to determine potential effects of the Proposed Action on the American Burying Beetle. A Consistency Letter dated July 17, 2023 was generated by the IPaC system stating that a finding of "no effect" had been reached.

The USFWS Consistency Letter is presented in Appendix C (Endangered Species Information).

Table 2
Migratory Birds of Concern

Species Names	Birds of Conservation Concern (BCC)	Breeding Dates in Project Area
Bald Eagle	N	October 15 to August 31
Black-billed Cuckoo	Υ	May 15 to October 10
Chimney Swift	Υ	March 15 to August 25
Eastern Whip-poor-will	Y	May 1 to August 20
Hudsonian Godwit	Υ	Breeds elsewhere
Kentucky Warbler	Υ	April 20 to August 20
Lesser Yellowlegs	Υ	Breeds elsewhere
Prothonotary Warbler	Y	April 1 to July 31
Red-headed Woodpecker	Υ	May 10 to August 31
Rusty Blackbird	Υ	Breeds elsewhere
Upland Sandpiper	Υ	May 10 to August 31

The various preferred habitats for the above-listed species are not present at the Site; however, should any of the above-listed species be identified during future construction or demolition activities, work will pause until potential impacts to any onsite Migratory Birds of Concern can be assessed. In addition, work that could cause potential impacts will be planned outside of the expected periods of greatest seasonal occurrence to the greatest extent possible.

According to the USFWS Federally-Listed Aquatic Species Watersheds of Oklahoma Map, Federal Candidate Aquatic Species Watersheds of Oklahoma Map, and Federally-Listed Aquatic Dependent Species Watersheds of Oklahoma Map, there are no rivers located within one (1) mile of the Site within which endangered species have been identified. According to the Oklahoma National Wildlife Refuges and National Fish Hatchery map, there are no national wildlife refuges or fish hatcheries on or near the Site.

A consultation request letter was sent to the USFWS on October 9, 2019 to comply with the requirements of the USFWS under Section 7(c) of the Endangered Species Act of 1969. A second consultation request letter dated July 28, 2023 was provided to the USFWS. To date, no correspondence has been received from the USFWS.

Endangered Species Information is presented in Appendix C (Endangered Species Information). Consultation letters are provided in Appendix F (Consultation Letters).

5.7.2 Vegetation

There are no reported endangered plant species in Tulsa County, Oklahoma.

5.7.3 Ecosystems and Biological Communities

Presently, the Site consists of mostly concrete-paved areas for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas along the western, southern, and eastern Site boundaries. The proposed commercial redevelopment includes landscaped areas and light commercial activity that would decrease stress on ecosystems and biological communities compared to the concrete batch mixing plant, due to decreased noise and dust.

No wetlands or wetland habitats were observed on the Site (See Section 5.5.1). No breeding, feeding, or roosting birds are known to habitually occupy the Site or are within the proposed project area. No endangered or threatened species or designated habitats were observed on the Site or within the proposed project area.

A & M reviewed the USFWS database which identifies threatened and endangered species known to occur in the vicinity of proposed developments. The surrounding areas consist of parks, residences, commercial facilities, and the Arkansas River. Critical habitats and presence of endangered or threatened species were not observed on the Site, in the proposed project area, or within most surrounding areas except for the Arkansas River. The Arkansas River is located to the east of the Site and may be a habitat for threatened or endangered species. The presence of the river is not an issue because proposed redevelopment would reduce noise and dust decreasing stress on this habitat following construction activities.

A consultation request dated October 9, 2019 was provided to the Oklahoma Natural Heritage Inventory (ONHI) for information related to rare species or ecological studies at the Site. A response was received from the ONHI dated October 14, 2019 that indicated that twelve (12) occurrences of relevant species (American Burying Beetle and Bald Eagle) have been identified in the vicinity of the Site; of these, only one occurrence (Bald Eagle) was identified within the mile section within which the Site is located. No suitable habitat for the Bald Eagle was identified at the Site which is identified on the threatened species list.

An additional consultation request dated July 28, 2023 was provided to the ONHI as part of this NEPA EA update. A response dated August 8, 2023 was received indicating that seven (7) occurrences of the Bald

Eagle were identified within the vicinity of the Site. Of these, only one occurrence (Bald Eagle) was identified within the mile section within which the Site is located. No other occurrences of relevant species were identified within the vicinity of the Site.

The consultation request letters are provided in Appendix F and the ONHI response letters are provided in Appendix G.

According to the Oklahoma Department of Wildlife Conservation and the U.S. Fish and Wildlife Service, there are no Wildlife Management Areas or National Wildlife Refuges on or near the proposed site expansion.

The Wildlife Conservation and Management Area Map (Figure 9) is provided in Appendix A.

According to the EDR NEPA Report, there are no federally designated wilderness areas or wildlife preserves within one (1) mile of the Site.

The EDR NEPA Report is provided in Appendix D.

5.7.4 Agriculture

The Site consists mostly of concrete-paved areas for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas to the western, southern, and eastern portions of the Site. No agricultural activities currently occur on the Site.

In 1981 Congress passed the Agriculture and Food Act which included the Farmland Protection Policy Act (FPPA). This Act was passed in order to minimize the impact of Federal programs that irreversibly convert farmland to nonagricultural uses. Farmland subject to this Act includes prime farmland, unique farmland, and land of statewide or local importance. In addition, farmland subject to FPPA requirements does not have to be currently used for cropland. Land that is already designated for urban development is not subject to this Act. Exemptions to the FPPA include corridor subsurface projects (such as buried water, sewage, and/or electrical lines), which would develop a soil disturbance/removal and reconstruction plan (as defined in 30CFR823.12 and 30CFR823.14) for all agricultural land uses. The Site is designated as urban; therefore, it is not subject to the FPPA Act.

If a project is in cropland, as defined by USDA-NRCS, the 30CFR823.15 regulation applies, and a soil revegetation and restoration plan would need to be developed. **The Site is not located in cropland and 30CFR823.15 does not apply.**

None of the soil types at the Site are classified as prime farmland.

A Soil Map (Figure 5) is provided in Appendix A (Figures). A soil report for the Site is presented in Appendix E (NRCS Soil Report). Requests for consultation are presented in Appendix F (Consultation Letters).

5.8 CULTURAL RESOURCES

5.8.1 Historic, Cultural, and Religious Properties

In order to determine potential Historical, Cultural, Religious, and Archeological locations, several Governmental databases were searched by Environmental Data Resources, Inc. (EDR), including the National Register of Historic Places (NRHP), Oklahoma Historical Society (OHS), and the National Association of Tribal Historic Preservation Officers.

Based on the EDR NEPA Report, there are Historical Sites situated within one (1) mile of the Site; however, all of these sites are located east of the Arkansas River and are neither located at the project site nor adjoining properties. The proposed relief from two (2) drainage easements on the eastern

NEPA EA GCC Ready Mix Facility
September 8, 2023 Tulsa, Oklahoma

portion of the Site and the proposed change in land use of the Site (from industrial to commercial use) will have no effect on these Historical Sites.

One Oklahoma Determination of Eligibility Site is mapped as being located approximately 0.25 miles west of the Site; however, this listing appears to be erroneously mapped as it refers to the Pedestrian Bridge which is located approximately one mile southeast of the Site.

In order to comply with the Section 106 of the National Preservation Act, the State Historic Preservation Office (SHPO) was contacted for a Historical Review for the Site and proposed project area. No response to the letter dated October 9, 2019 was received.

The Muscogee (Creek) Nation - Cultural and Historic Preservation and Osage Nation Historic Preservation Offices (THPO) were contacted to conducted reviews for the Site and proposed project area. The consultation letters were dated October 9, 2019. To date, no response has been received from either THPO.

Additional consultation with the SHPO and various THPOs was undertaken by the USACE in 2023.

A Historic Properties Map (Figure 8) is presented in Appendix A (Figures). The EDR NEPA Report is provided in Appendix D (EDR NEPA Report). Consultation requests are presented in Appendix F (Consultation Letters). Agency responses are presented in Appendix G (Consultation Responses).

5.9 ARCHEOLOGICAL RESOURCES

In a letter dated October 9, 2019, A & M requested the Oklahoma Archeological Survey (OAS) review the proposed project and provide information regarding any historic or prehistoric properties at the Site and provide a recommendation. Mr. Westervelt provided A & M with a letter from the OAS dated September 20, 2019 indicating that no known archeological sites are listed within the area, and based on the topographic and hydrologic setting, no archaeological materials are likely to be encountered. The OAS stated that an archaeological field inspection is not considered necessary.

An additional consultation request was provided to the OAS (July 28, 2023) requesting information regarding any known historic or prehistoric properties at the Site. A response dated August 28, 2023 stated that no archeological materials are likely to be encountered and an archeological field study is not considered necessary.

Consultation requests are presented in Appendix F (Consultation Letters). Agency responses are presented in Appendix G (Consultation Responses).

5.10 SOCIOECONOMIC CONDITIONS

5.10.1 Employment and Income

The Site is located in a county with a median household income of \$60,382, which is higher than the Oklahoma average of \$56,956. The percentage of employed Tulsa County residents over the age of 16 is 66.0%.

Within Tulsa County, the most common employment sector in 2019 was Office and Administrative Support, accounting for 12.3% of jobs. The Management sector accounted for 10.4% and was followed by the Sales and Related Occupations sector at 10.6%.

Data related to income and occupations within Tulsa County is included in Appendix H (US Census Information).

5.10.2 Demographic Trends

Data was obtained from the US Census Bureau website. The following summarizes the US Census findings for Tulsa County:

Tulsa County

County Seat Tulsa (City Population 413,066)

County Population 677,358 (2022)

Land Area 587 square miles

Median Household Income \$60,382

County Population Status Female: 50.8% Male: 49.2%

Ethnicity White alone: 71.1%; African American alone: 10.9%;

American Indian alone: 7.1%; Two or More Races:

6.7%

Housing Units 297,854

Nonfarm Establishments (Private) (2020) 19,268

Nonfarm Employment (Private) (2020) 319,207

Total Number of Firms (2017) 14,913

Data related to income and occupations within Tulsa County is included in Appendix H (US Census Information).

5.10.3 Lifestyle and Cultural Values

The Site and surrounding community is within an urban setting. The neighboring properties are parks, residences, or commercial facilities. Tulsa County has a diverse visual and performing arts sector, several entertainment venues, parks, and restaurants.

5.10.4 Community Infrastructure (Public Services and Utilities)

The following utilities are available for the Site:

Table 3
Available Utilities

U TILITY	UTILITY PROVIDER
Potable Water	City of Tulsa
Natural Gas	Oklahoma Natural Gas
Electricity	Public Service Company of Oklahoma
Trash	City of Tulsa
Sewer	City of Tulsa

5.10.5 Environmental Justice Considerations

The estimated area of effect associated with the Proposed Action is currently developed with a concrete batch plant. No residences, known cultural resources, or historic sites are present within the estimated area of effect. The proposed future commercial redevelopment would create economic opportunities and employment within the vicinity. The effect of the Proposed Action on minority and low-income populations in the vicinity of the Site is expected to be positive.

5.11 RESOURCE USE PATTERNS

5.11.1 Hunting, Fishing, and Gathering

The Site is located inside the city limits and no hunting is allowed. The Oklahoma Wildlife Conservation Service map for the area indicates there are no Wildlife Management Areas on or near the Site. A consultation request dated October 9, 2019 was provided to the Oklahoma Department of Wildlife Conservation (ODWC). No response was received from the ODWC.

The Wildlife Conservation and Management Area Map (Figure 9) is provided in Appendix A (Figures). Consultation requests are presented in Appendix F (Consultation Letters).

There are no rivers located on the Site. The Arkansas River is located approximately 120 feet east of the Site and provides fishing opportunities.

The Site is mostly paved and no gathering resources are present.

5.11.2 Timber Harvesting

The Site consists mostly of concrete-paved areas for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas to the western, southern, and eastern portions of the Site. The trees and shrubs are not of commercial value. No commercial timber harvesting will occur on the Site.

5.11.3 Agriculture

The Site is currently mostly paved and no arable land or other agricultural resources are present.

See Section 5.7.4 for additional discussion of Agricultural resources at the Site.

5.11.4 Mining

No mining practices were identified at the Site or the surrounding properties. A consultation request dated October 9, 2019 was sent to the Oklahoma Department of Mines (ODM). A response was received from the ODM (October 18, 2019) indicating that there are no mining activities that may affect or be affected by the Proposed Action.

An additional consultation request was sent to the ODM (July 28, 2023) as part of this NEPA EA update. A response was received dated August 21, 2023 indicating that there are no mining activities that may affect or be affected by the Proposed Action, with the nearest area of interest to the ODM located approximately 2.3 miles west of the Site.

Consultation requests are presented in Appendix F (Consultation Letters). Agency responses are presented in Appendix G (Consultation Responses).

5.11.5 Recreation

The Site is not currently used for recreation. Neighboring properties to the north, west, and south have recreational facilities. Approval of relief from two (2) drainage easements and the associated commercial redevelopment of the Site will not negatively affect recreational facilities at the adjoining properties.

5.11.6 Transportation Needs

U.S. Highway 244 is the nearest highway, and is accessible less than one (1) mile from the Site. West 23rd Street is located adjacent to the Site to the south and South Jackson Avenue is located beyond the railroad to the west. Approval of relief from two (2) drainage easements and the associated commercial redevelopment of the Site will not result in an increased need for transportation infrastructure of the area.

5.11.7 Land Use Plans

The Proposed Action would approve relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development.

Where possible, existing onsite development (former building foundations, mechanical systems, and/or asphalt paving) will be repurposed and reused.

5.12 OTHER VALUES

5.12.1 Wilderness

The Site currently consists of paved concrete for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas with trees and shrubs in the western, southern, and eastern portions of the Site. The Site is listed as a potential breeding, wintering, and/or year-round habitat for a variety of migratory birds. No endangered or threatened species or designated habitats were observed on the Site or in the proposed project area.

5.12.2 Noise and Light

Other than normal traffic noise from the adjoining streets, noise levels within the project vicinity will decrease as a result of terminating concrete batch mixing operations and replacing these operations with commercial development.

5.12.3 Visual

The Site is situated in a mixed use area within the Tulsa city limits. The Site is surrounded by parks, residences, and commercial properties. The area is generally clean and free of debris, other than miscellaneous waste typical in a city environment.

5.12.4 Public Health and Safety

The Tulsa Police Department provides emergency service and response to the Site, and law enforcement and public safety services to the area.

The Saint John Medical Center is located approximately 1.8 miles east of the Site, providing health care and medical services to community residents.

5.12.5 Climate Change (Greenhouse Gases)

According the USEPA, the primary sources of greenhouse gases are electricity production, transportation, industry, commercial and industrial, agriculture, land use and forestry. The proposed project will result in a short-term increase in the burning of fossil fuels during the redevelopment phase. The long-term increase in fossil fuel use associated with increased electricity use at the Site is anticipated to be moderate. Energy-efficient lighting and heating will be implemented at the proposed redevelopment as possible. A moderate increase in transportation use is anticipated. No industrial facilities will be part of the proposed project. An increase in greenhouse gases associated with the proposed project is anticipated.

5.12.6 Indian Trust Assets

Neither the Site nor the adjoining properties are currently owned by a federally-recognized tribal nation, and the Proposed Action will have no effect on Indian trust assets.

5.12.7 Hazardous Materials

The Site consists of concrete paving for parking and concrete mixing, as well as an office building, warehouse, storage shed, and landscaped areas with trees and shrubs in the western, southern, and eastern portions of the Site. No containers (drums, totes, tanks, etc.) of hazardous materials, petroleum products, or unidentified substances were identified during the site reconnaissance. During commercial redevelopment, it is anticipated that oil-containing machinery and fuel tanks would be present. Equipment will be maintained and spill kits will be available during construction. Once redevelopment is complete, it is not anticipated that hazardous materials would be stored or used at the Site.

6.0 ENVIRONMENTAL EFFECTS CIVIC

Potential environmental impacts are evaluated in the following sections.

(43 CFR 46.310(a)(4))

6.1 LAND RESOURCES

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Direct/Indirect Impacts: Relief from the two (2) drainage easements on the eastern portion of the Site is not anticipated to have a significant environmental effect on the land resources at the Site or adjoining properties. Redevelopment activities potentially include removing trees and shrubs and replacing with appropriate vegetation, structures, or pavement throughout the Site. Due to construction activities and proximity to the Arkansas River, best management practices (ex. mulch, silt fence, erosion blankets, or surface roughening) would be implemented to minimize soil erosion until vegetation or pavement is re-established throughout Site.

Cumulative Impacts: Approximately 26.72 acres would be commercially redeveloped. Electricity demands may increase from building heating, air conditioning, and lighting. Exterior lighting would increase throughout the Site. The reproposed development would promote economic activity in the vicinity. Building and lawn maintenance would be provided by business owners.

Design Element: During construction activities, the developer will comply with Best Management Practices (BMPs) and effluent limitations, as specified in the USEPA National Pollutant Discharge Elimination System (NPDES) - General Permit OKR10 for Construction Stormwater (Construction General Permit). Sedimentation will be controlled in accordance with the BMPs.

Mitigation Measures: Re-planting of appropriate vegetation in landscaped areas will offset vegetation lost due to redevelopment and will aid in minimizing erosion. Storm sewers will be constructed for runoff along roads and parking areas as applicable.

A link to the NPDES General Permit which includes applicable BMPs is provided in Appendix I (Best Management Practices).

6.2 WATER RESOURCES

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Direct/Indirect Impacts: Relief from the two (2) drainage easements on the eastern portion of the Site is not anticipated to have a significant environmental effect on the Site or adjoining properties. Redevelopment plans for the Site will address stormwater drainage and structures will not permanently impound stormwater flow. Redevelopment activities potentially include removing trees and shrubs and replacing with appropriate vegetation, structures, or pavement throughout the Site. Increased erosion and sedimentation is anticipated to occur during redevelopment. Due to construction activities and proximity to the Arkansas River, best management practices (ex. mulch, silt fence, erosion blankets, or surface roughening) would be implemented to minimize soil erosion until vegetation or pavement is re-established throughout Site.

Cumulative Impacts: Approximately 26.72 acres would be commercially redeveloped. Environmental effects at the Site and adjoining properties are generally anticipated to be positive, with the cessation of current concrete batch plant activities leading to a decrease in dust and sediment following redevelopment.

Design Element: During construction activities, the developer will comply with Best Management Practices (BMPs) and effluent limitations, as specified in the USEPA National Pollutant Discharge Elimination System (NPDES) - General Permit OKR10 for Construction Stormwater (Construction General Permit). Sedimentation will be controlled in accordance with the BMPs.

Mitigation Measures: Re-planting of appropriate vegetation in landscaped areas will offset vegetation lost due to development and will aid in minimizing erosion. Storm sewers will be constructed for runoff along proposed roads and parking areas.

A link to the NPDES General Permit which includes applicable BMPs is provided in Appendix I (Best Management Practices).

6.3 AIR QUALITY

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Direct/Indirect Impacts: Relief from the two (2) drainage easements on the eastern portion of the Site is not anticipated to have a significant environmental effect on air quality at the Site or adjoining properties. Temporary impacts from volatile emissions of light-end hydrocarbons from equipment and fugitive emissions (dust) are expected during redevelopment activities.

Cumulative Impacts: Following redevelopment, automotive emissions are expected from daily traffic of commercial development patrons and miscellaneous business contractors. These emissions are anticipated to represent an improvement compared to the current concrete batch mixing plant. No air permits are anticipated for this project or for site maintenance following redevelopment.

Design Element: Construction equipment would be maintained and equipped with manufacturer's emission control measures. The entire property would be developed, resulting in stabilization of all disturbed soil. As the General Permit states, BMPs will be followed during all construction activities.

Mitigation Measures: None were identified.

A link to the NPDES General Permit which includes applicable BMPs is provided in Appendix I (Best Management Practices).

6.4 LIVING RESOURCES

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property

NEPA EA GCC Ready Mix Facility
September 8, 2023 Tulsa, Oklahoma

as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

The following endangered species and threatened species are reported in Tulsa County, Oklahoma:

American Burying Beetle
 No critical habitat has been established

Piping Plover
 No critical habitat onsite

Red Knot
 No critical habitat has been established

Direct/Indirect Impacts: Relief from the two (2) drainage easements on the eastern portion of the Site is not anticipated to have a significant environmental effect on threatened and endangered species at the Site or adjoining properties. The habitat at the proposed project site does not support any of the endangered or threatened species; therefore, a determination of "no effect" is appropriate for the listed species. See Section 5.7.1 of this report for more detailed information on these endangered species.

Cumulative Impacts: The Arkansas River is east of the Site and may support threatened or endangered species. Compared to current site use as a concrete batch mixing plant, the proposed commercial redevelopment would decrease stress on neighboring habitats with more landscaped areas by reducing daily emissions and noise. Ultimately, the Site is within a city setting and would not have a significant impact to endangered or threatened species.

Design Element: BMPs, as per the General Permit (See Appendix I), will be implemented to control sediment and erosion during and after construction activities. Portions of the property which may remain undisturbed will provide continued habitat for wildlife.

Mitigation Measures: None were identified.

Endangered Species Information is presented in Appendix C (Endangered Species Information). A link to the NPDES General Permit which includes applicable BMPs is provided in Appendix I (Best Management Practices).

6.5 CULTURAL RESOURCES

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Based on the EDR NEPA Report, there are Historical Sites situated within one (1) mile of the Site located east of the Arkansas River. The proposed site developments will have no effect on these properties.

Direct/Indirect Impacts: If any buried archeological materials, such as chipped stone tools, pottery, bone historic crockery, glass, metal items, or building materials are exposed during construction, construction activities will cease and the Muscogee (Creek) Nation Cultural and Historic Preservation, Osage Nation Historic Preservation Office, and the Oklahoma Archeological Survey will be immediately notified.

Cumulative Impacts: The proposed project area does not have any cultural or historical resources. Therefore, there are no cumulative impacts due to the proposed project.

Mitigation Measures: None were identified.

The EDR NEPA Report is provided in Appendix D (EDR NEPA Report).

6.6 SOCIOECONOMIC RESOURCES

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either

excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Direct/Indirect Impacts: Relief from the two (2) drainage easements on the eastern portion of the Site combined with commercial redevelopment of the Site is anticipated to provide employment and revenue to the local economy.

Cumulative Impacts: By changing Site zoning from industrial to commercial, similar land use may be developed in the area, further promoting economic activity and increased housing options.

Mitigation Measures: None were identified.

6.7 RESOURCE USE PATTERNS

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Changing zoning from industrial to commercial would not alter other resource use patterns such as hunting, fishing, timber harvesting, agriculture, and mineral exploration. The Site lacks significant surface water resources or significant stands of timber, and the geology of the Site does not support mineral resource development nor does the Site contain significant paleontological resources.

Direct/Indirect Impacts: Existing trees, shrubbery, and grassland would be removed during development. Re-planting appropriate vegetation and developing new landscaped areas would offset vegetation lost due to development and would aid in minimizing erosion from the Site.

Cumulative Impacts: None were identified.

Mitigation Measures: None were identified.

6.8 OTHER VALUES (NOISE AND VISUAL/AESTHETIC)

No Action (No Build) Alternative:

The No Action Alternative would result in the existing property remaining as it is and the continued use as a concrete batch mixing plant with no change in the overall land classification or use. No relief from two (2) drainage easements on the eastern portion of the Site would occur, and no commercial redevelopment of the Site would be pursued. GCC would continue to maintain and manage the property as it currently exists. No direct/indirect or cumulative impacts, mitigation measures, or environmental justice issues were identified.

Relief from Easements and Commercial Redevelopment (Proposed Action):

This preferred alternative would result in relief from two (2) drainage easements on the eastern portion of the Site and would allow for a change in land use of the Site from an industrial facility to commercial development. Redevelopment activities would potentially include demolishing current buildings, either excavating or adding soil throughout the Site to improve building and road foundations, removing trees and shrubs and planting new foliage for landscaping, and constructing new buildings. Potentially, additional soil excavation may be required on the western portion of the Site where concrete batch mixing operations took place. Future management and ownership of the Site is undetermined at this time.

Direct/Indirect Impacts: Relief from the two (2) drainage easements on the eastern portion of the Site will have no significant effect on noise levels or aesthetics at the Site. During redevelopment, noise level is anticipated to temporarily increase because of heavy equipment (e.g., bulldozer, excavator, etc.), though muffler systems installed on the equipment would minimize noise. Visual concerns during redevelopment would likely include portable fuel tanks and portable toilets. Health or safety issues would not be expected to result from the project.

Cumulative Impacts: Compared to current Site use as a concrete batch mixing plant, the proposed commercial redevelopment would improve visual and noise impacts. Aesthetics would improve with new structures and landscaped areas. Commercial redevelopment is considered an improvement to the property and will have positive impact to the Site and the surrounding area.

Mitigation Measures: Construction activities will occur during normal working hours.

7.0 CONSULTATION AND COORDINATION

(43 CFR 46.310(a)(5))

The USACE consulted with A & M for the purpose of this EA. In addition, A & M reviewed resources from the US Fish and Wildlife Service, Oklahoma Water Resources Board (OWRB), US Environmental Protection Agency, Environmental Data Resources, Inc., and the Oklahoma Department of Wildlife Conservation to determine the effects and conditions of the proposed project area.

A & M solicited comments from various Federal, Tribal, State, and Local governments regarding the proposed developments for compliance with NEPA. The consultation correspondence is outlined below and a summary of Agency Responses is provided in Section 7.1.

Table 4
Consultation Requests

Agencies	Consultation Methods
Oklahoma Archeological Survey	Letter - Dated October 9, 2019;
Oklahoma Archeological Survey	Letter – Dated July 28, 2023
Oklahoma Department of Wildlife Conservation	Letter - Dated October 9, 2019;
Oklahoma Department of Whalife Conservation	Letter – Dated July 28, 2023
Oklahoma Biological Survey (Oklahoma Natural Heritage	Letter - Dated October 9, 2019;
Inventory)	Letter – Dated July 28, 2023
Oklahoma Historical Society (State Historic Preservation Office)	Letter - Dated October 9, 2019
Oktaholita Historical Society (State Historic Frescrivation Office)	(additional consultation by USACE)
US Army Corps of Engineering - Tulsa District	Letter - Dated October 9, 2019;
OS Army Corps of Engineering Tuisa District	Letter – Dated July 28, 2023
	Letter - Dated October 9, 2019;
Muscogee (Creek) Nation - Cultural and Historic Preservation	Letter – Dated July 28, 2023
	(additional consultation by USACE)
Oklahoma Department of Environmental Quality	Letter - Dated October 9, 2019;
Oklahoma Department of Environmental Quality	Letter – Dated July 28, 2023
U.S. Fish and Wildlife Services	Letter - Dated October 9, 2019;
0.5. Fish and Whalife Services	Letter – Dated July 28, 2023
Office of Water Quality Protection Division,	Letter - Dated October 9, 2019;
US Environmental Protection Agency - Region 6	Letter – Dated July 28, 2023
Oklahoma Scenic Rivers Commission	Letter - Dated October 9, 2019;
Oktanoma Seeme Rivers Commission	Letter – Dated July 28, 2023
Natural Resources Conservation Service, Tulsa Field Service	Letter - Dated October 9, 2019;
Center	Letter – Dated July 28, 2023
Oklahama Watar Pasaursa Baard	Letter - Dated October 9, 2019;
Oklahoma Water Resource Board	Letter – Dated July 28, 2023
	Letter - Dated October 9, 2019;
United States Geological Survey	Letter – Dated July 28, 2023
	, .
Tulsa County Emergency Management Agency	Letter - Dated October 9, 2019;
	Letter – Dated July 28, 2023
Jenks Public Works Department	Letter - Dated October 9, 2019;
	Letter – Dated July 28, 2023

NEPA EA September 8, 2023 GCC Ready Mix Facility Tulsa, Oklahoma

Mayor's Office of Economic Development	Letter - Dated October 9, 2019; Letter – Dated July 28, 2023
Oklahoma Department of Mines	Letter - Dated October 9, 2019; Letter - Dated July 28, 2023
Alabama-Quassarte Tribal Town	Letter - Dated July 28, 2023 Letter - Dated July 28, 2023 (additional consultation by USACE)
Osage Nation Historic Preservation Office	Letter - Dated October 9, 2019; Letter – Dated July 28, 2023 (additional consultation by USACE)
Thlopthlocco Tribal Town	Letter - Dated October 9, 2019; Letter – Dated July 28, 2023 (additional consultation by USACE)
Kialegee Tribal Town	Letter - Dated October 9, 2019; Letter – Dated July 28, 2023 (additional consultation by USACE)
Tulsa Brownfields Program	Letter – Dated July 28, 2023

Consultation requests are presented in Appendix F (Consultation Letters).

7.1 AGENCY RESPONSES

Table 5
Agency Responses

Agencies	Responses
Oklahoma Archeological Survey	2019: Email requesting additional information regarding type and extent of impacts associated with proposed development (10/15/2019). Additional information was provided (10/22/2019). It was then determined that a response from OAS had already been developed and provided to Tanner Consulting (9/20/2019) that identified no prehistoric or historic sites at the project site. 2023: Email requesting additional information (8/3/2023). Additional information provided, received response indicating no historic or prehistoric properties at the Site (8/28/2023).
Oklahoma Department of Wildlife Conservation	No response
Oklahoma Biological Survey (Oklahoma Natural Heritage Inventory)	(10/14/2019) Twelve occurrences of relevant species within the vicinity – ABB and bald eagle. (8/8/2023) Seven occurrences of relevant species (bald eagle only).
Oklahoma Historical Society (State Historic Preservation Office)	No response

NEPA EA September 8, 2023 GCC Ready Mix Facility Tulsa, Oklahoma

	Phone conversation with Mr. Tony Clyde regarding
US Army Corps of Engineering - Tulsa District	additional consultation to be undertaken by USACE with THPOs and SHPO (8/16/2023).
Muscogee (Creek) Nation - Cultural and Historic Preservation	No response
Oklahoma Department of Environmental Quality	No response
U.S. Fish and Wildlife Services	No response
Office of Water Quality Protection Division, US Environmental Protection Agency - Region 6	No response
Oklahoma Scenic Rivers Commission	No response
Natural Resources Conservation Service, Tulsa Field Service Center	No response
Oklahoma Water Resource Board	Property does not appear to lie within the 100-year floodplain but is very close to areas that lie within the floodplain and floodway. Suggests contacting City of Tulsa Floodplain Administrator (10/17/2019). Review of City of Tulsa data available online indicated that the extreme southeast corner of the Site is at risk of flooding during releases of 305,000 cubic feet per second (CFS) from the Keystone Dam.
United States Geological Survey	No response
Tulsa County Emergency Management	Name
Agency	No response
Jenks Public Works Department	Received a Phase II ESA performed on an adjoining property indicating that an adjoining historical landfill may extend under the Site. Total Petroleum Hydrocarbons (TPH), lead, and selenium were identified in the southernmost soil boring (closest to then project site) in concentrations in excess of regulatory screening levels (RSL) and naturally-occurring background levels in shallow soil (2'-3' below ground surface). No other concerns were identified. Email indicating no concerns with project (8/2/2023).
Mayor's Office of Economic Development	
Oklahoma Department of Mines	No coal mines, non-coal mines, or other surface reclamation efforts that might affect the project (10/18/2019). Email indicating no concerns with projects; nearest area of interest to ODM is located ~2.3 miles west of Site
Alabama-Quassarte Tribal Town	(8/21/2023). No response.
Alabama-Quassante mbai rown	No response.

NEPA EA September 8, 2023 GCC Ready Mix Facility Tulsa, Oklahoma

Osage Nation Historic Preservation Office	No response.
Thlopthlocco Tribal Town	No response.
Kialegee Tribal Town	No response.
Tulsa Brownfields Program	No response.

Agency response documents are presented in Appendix G (Consultation Responses).

8.0 PROFESSIONAL QUALIFICATIONS

The following is a list of qualified professionals who were involved with this NEPA EA.

Preparation of Initial Report Ms. Valerie Blomgren (P.G. Geologist)
Preparation of Report Update Mr. Justin Scott (Environmental Specialist)

QA/QC and Review Mr. Jeff Elbert (Vice President – Professional Services)

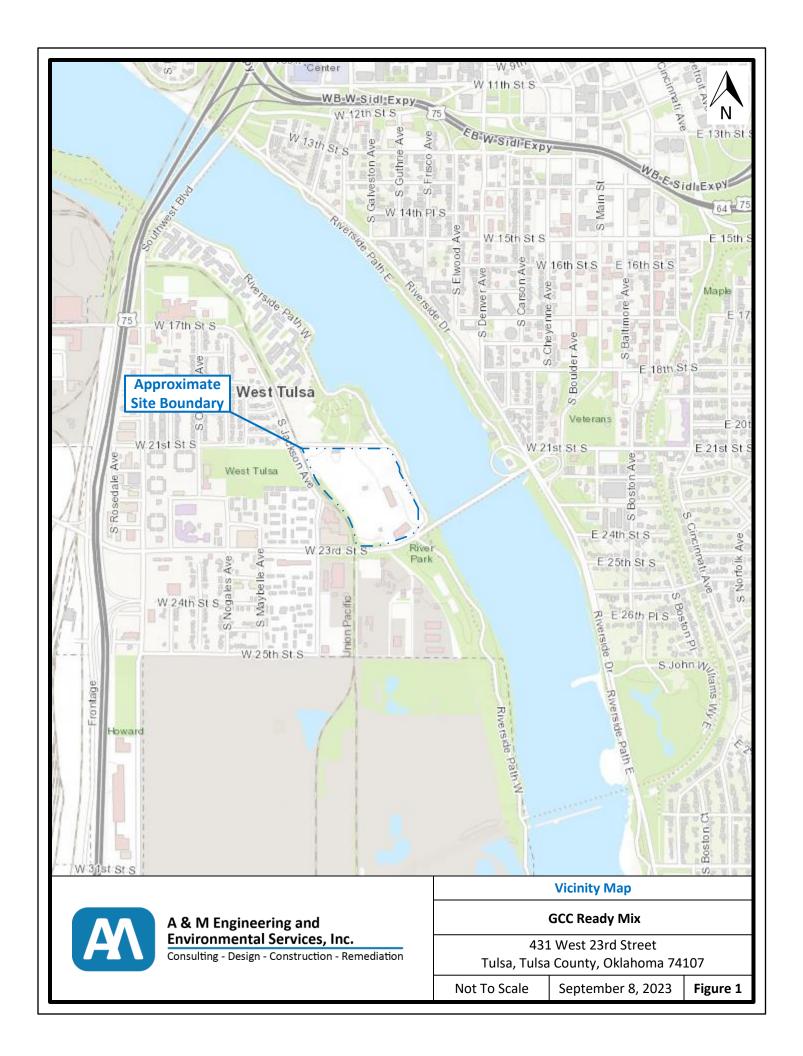
Professional Resumes and Qualifications are provided in Appendix J (Professional Qualifications).

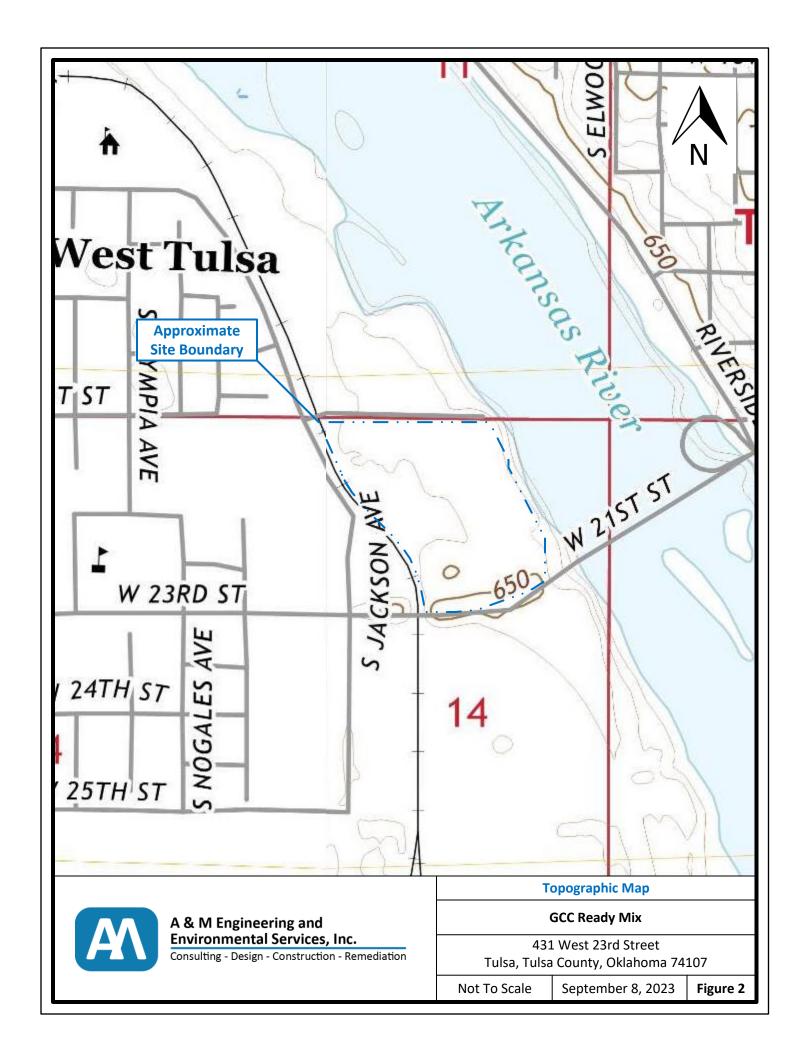
9.0 REFERENCES

Published References used in the completion of this NEPA EA include:

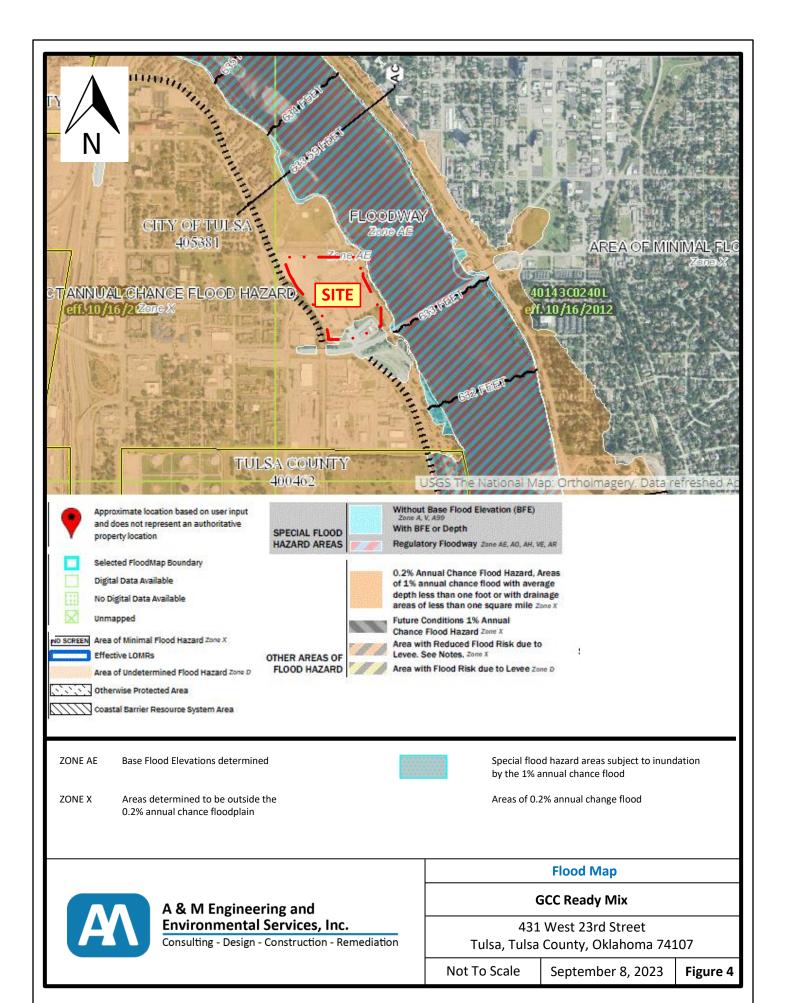
- Environmental Data Resources, Inc. (EDR). NEPASearch Map Report. Inquiry Number 7395451.1s. GCC Ready Mix, 431 West 23rd Street, Tulsa, OK 74107. Dated July 20, 2023.
- USGS 7.5 Minute Topographic Map. Tulsa, Oklahoma Quadrangle. 2019.
- Oklahoma Geological Survey. Hydrologic Atlas of the Tulsa and Enid Quadrangles, Oklahoma, Plate 1. 1971 and 1980
- Custom Soil Resource Report for Tulsa County, Oklahoma. U.S. Department of Agriculture Soil Conservation Service. Dated October 14, 2019.
- Federal Emergency Management Administration, Map Service Center website. Flood Map. Community Panel No: 40143C0240L. Effective October 16, 2012.
- USFWS National Wetland Inventory website. Wetlands Map. October 15, 2019.
- US Census Bureau website. American Fact Finder. July 17, 2023.
- USFWS Oklahoma Ecological Services Field Office. Endangered Species Information and Aquatic Species List. July 17, 2023.

Appendix A Site Figures











Legend

- 8 Choska-Severn-Urban land complex (0-1 percent slopes)
- 27 Kiomatia loamy fine sand (0-1 percent slopes)



Soil	I N/I OI
JUII	Mai

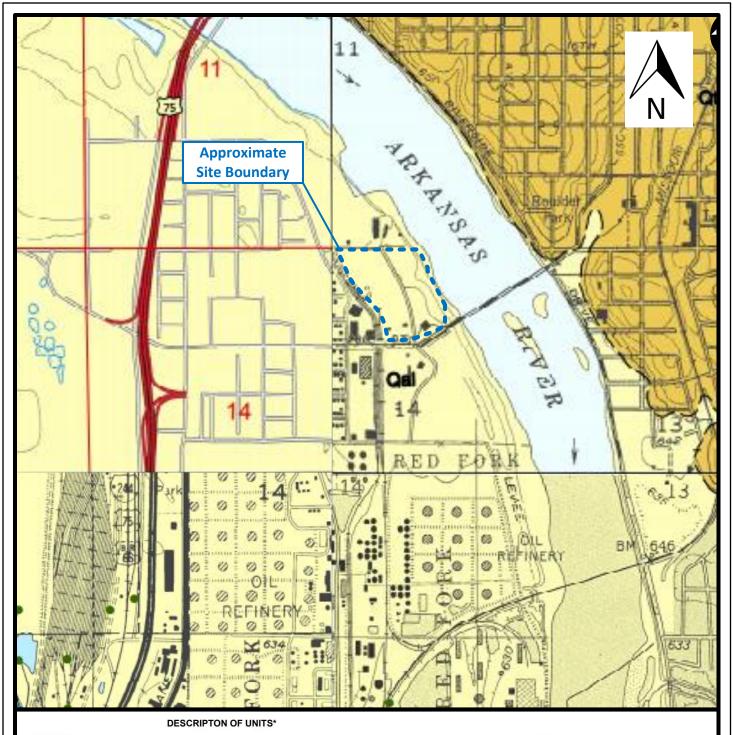
GCC Ready Mix

431 West 23rd Street Tulsa, Tulsa County, Oklahoma 74107

Not To Scale

September 8, 2023

Figure 5



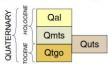
Qal

ALLUVIUM (Holocene)—Clay, silt, sand, and gravel in channels and on flood plains of modern streams. Includes terrace deposits of similar composition located directly above and adjacent to modern channels and flood plains. Thickness: 0 to about 30 ft.

Qtgo

REMNANTS OF OLDER TERRACE DEPOSITS (Pleistocene)—Clay, silt, sand, and gravel adjacent to the flood plain of the Arkansas River. Sand commonly is medium-to rarely coarse-grained and very light colored; when present, gravel locally consists of concentrations of local and distally derived, subrounded pebble and cobble-sized clasts of limestone and dolomite composition. The upper third to half of the deposit exhibits signs of aeolian reworking and modification, suggesting a prevailing northeast wind direction throughout the Holocene. Thickness: 0 ft to as much as 140 ft.

CORRELATION OF MAP UNITS





A & M Engineering and Environmental Services, Inc.

Consulting - Design - Construction - Remediation

Geology Map

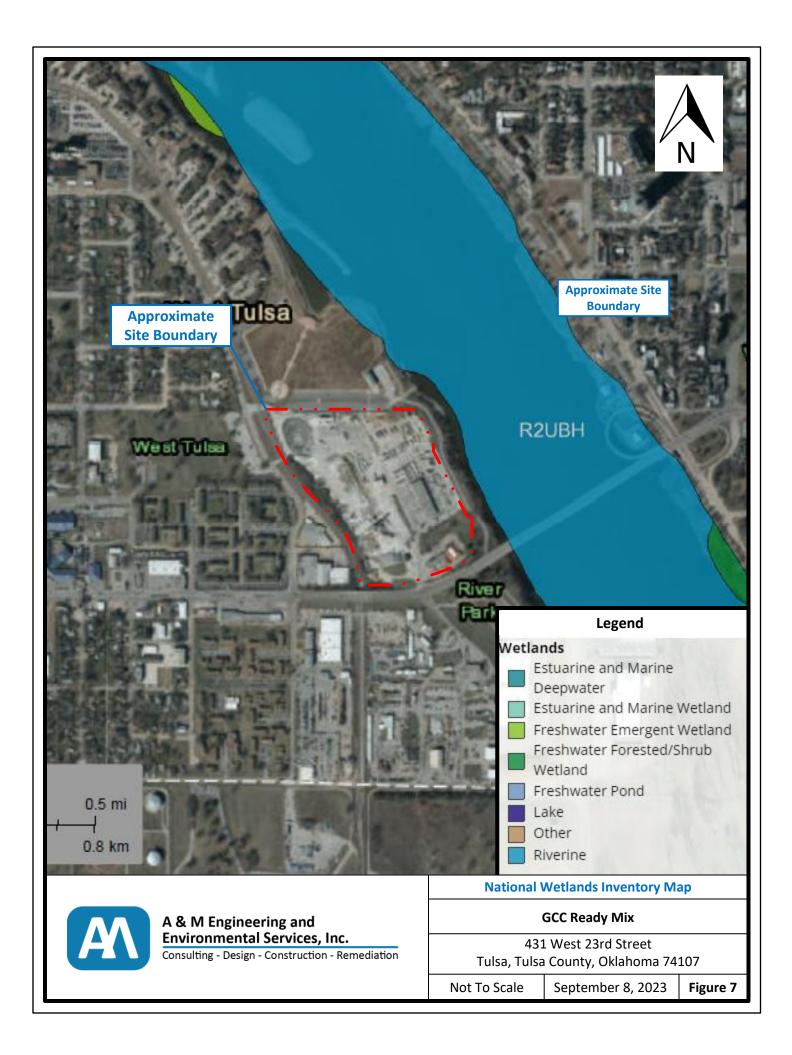
GCC Ready Mix

431 West 23rd Street Tulsa, Tulsa County, Oklahoma 74107

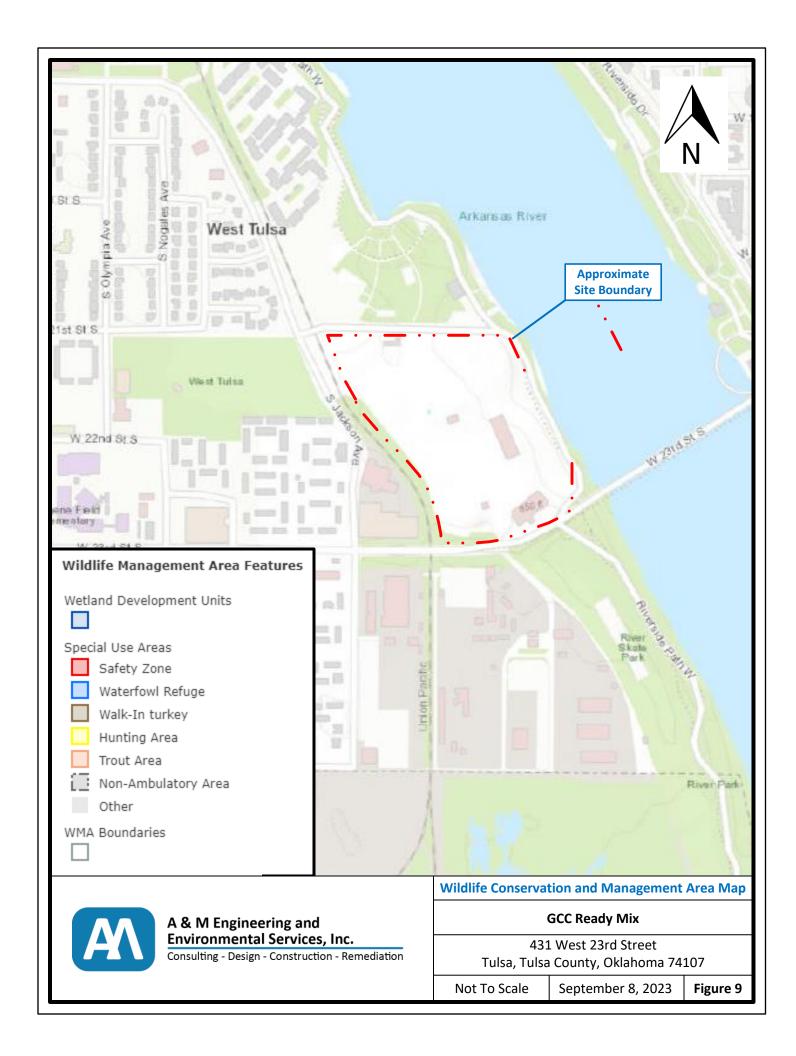
Not To Scale

September 8, 2023

Figure 6







Appendix B Photographic Record



Onsite parking area located northwest of the shop building.



The Site from the northwest, looking southeast along an abandoned road.



Earthen dike containing truck wash water.



Drying area for truck wash rinsate and sediment.



Equipment and materials stored on western portion of the Site.



Runoff pond located in the central portion of the Site.



Photographic Record

GCC Ready Mix

431 East 23rd Street Tulsa, Tulsa Oklahoma 74107

Page 1 of 3

September 8, 2023



Material storage area.



Concrete batching operations.



The onsite truck wash.



Records Storage Building



"Boneyard area" located north of the shop building.



Aboveground diesel storage tanks with containment.



Photographic Record

GCC Ready Mix

431 East 23rd Street Tulsa, Tulsa Oklahoma 74107

Page 2 of 3

September 8, 2023



The adjoining property to the north.



The adjoining property to the east.



The adjoining property to the south (beyond West 23rd Street).



The adjoining property to the west.



An adjoining property to the west (beyond railroad tracks and South Jackson Avenue).





Photographic Record

GCC Ready Mix

431 East 23rd Street Tulsa, Tulsa Oklahoma 74107

Page 3 of 3

September 8, 2023

Appendix C Endangered Species Information



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428

Phone: (918) 581-7458 Fax: (918) 581-7467

In Reply Refer To: 12/11/2024 17:25:30 UTC

Project code: 2023-0105145 Project Name: GCC Ready-Mix

Federal Nexus: yes

Federal Action Agency (if applicable): Army Corps of Engineers

Subject: Record of project representative's no effect determination for 'GCC Ready-Mix'

Dear Justin Scott:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on December 11, 2024, for 'GCC Ready-Mix' (here forward, Project). This project has been assigned Project Code 2023-0105145 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the **Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey)**, invalidates this letter. **Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

Determination for the Northern Long-Eared Bat and/or Tricolored Bat

Based upon your IPaC submission and a standing analysis, your project has reached the following effect determinations:

SpeciesListing StatusDeterminationTricolored Bat (Perimyotis subflavus)ProposedNo effectEndangered

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a) (4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Alligator Snapping Turtle Macrochelys temminckii Proposed Threatened
- American Burying Beetle Nicrophorus americanus Threatened
- Monarch Butterfly Danaus plexippus Candidate
- Piping Plover Charadrius melodus Threatened
- Rufa Red Knot Calidris canutus rufa Threatened

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

Next Steps

If there are no updates on listed species, no further consultation/coordination for this project is required with respect to the species covered by this key. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location

Project code: 2023-0105145

12/11/2024 17:25:30 UTC

of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the Oklahoma Ecological Services Field Office and reference Project Code 2023-0105145 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

GCC Ready-Mix

2. Description

The following description was provided for the project 'GCC Ready-Mix':

The proposed action would allow for a change in land use of the subject property from an industrial facility to a commercial and residential site developed with mixed used buildings for restaurants, retail, and apartments, as well as a hotel, parking garage, and apartment buildings. The potential exists for the proposed development to affect an existing USACE civil works project (levee).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@36.13173125,-95.99714028391699,14z



DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the species covered by this determination key. Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

Project code: 2023-0105145

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

- 9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*
- 10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

No

13. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

14. Will the action result in effects to a culvert or tunnel at any time of year?

15. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

Yes

16. Does the action include the intentional exclusion of bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

- 17. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**No
- 18. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic permanently or temporarily on one or more existing roads?

Note: For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

20. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

21. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansistandard-60-drinking-water-treatment-chemicals-health-effects

No

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

23. Will the action include drilling or blasting?

- 24. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)? No
- 25. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)? No
- 26. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-surveyguidelines.

27. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

No

Project code: 2023-0105145

28. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

No

29. Will the proposed action result in the use of prescribed fire?

Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

No

30. Does the action area intersect the tricolored bat species list area?

Automatically answered

Yes

31. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

32. Has a presence/probable absence but survey targeting the <u>tricolored but and following the Service's Range-wide Indiana But and Northern Long-Eared But Survey Guidelines been conducted within the project area?</u>

No

33. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (Tillandsia usneoides), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

34. Do you have any documents that you want to include with this submission? *No*

PROJECT QUESTIONNAIRE

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Justin Scott

Address: 10100 East 16th Street

City: Tulsa State: OK Zip: 74128

Email jscott@aandmengineering.com

Phone: 9186656575

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers

12/11/2024 17:25:30 UTC



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428

Phone: (918) 581-7458 Fax: (918) 581-7467

In Reply Refer To: July 17, 2023

Project code: 2023-0105145 Project Name: GCC Ready-Mix

Subject: Consistency letter for 'GCC Ready-Mix' project for a No Effect determination for the

American burying beetle

Dear Justin Scott:

The U.S. Fish and Wildlife Service (Service) received on **July 17, 2023** your effect determination(s) for the 'GCC Ready-Mix' (the Action) using the American burying beetle (Nicrophorus americanus) determination key within the Information for Planning and Consultation (IPaC) system.

The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.)

Based on your consideration of the Action and the assistance in the Service's American burying beetle determination key, you have determined that your proposed action will have No Effect on the American burying beetle.

Your agency has met consultation requirements for these species by informing the Service of your "no effect" determination. No further consultation for this project is required for the American burying beetle. This consistency letter confirms you may rely on effect determinations you reached by considering the American burying beetle DKey to satisfy agency consultation requirements under Section 7(a) (2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.; ESA).

Coordination with your local Ecological Services Office is complete for the American burying beetle. If your project may affect additional listed species, please contact your local Ecological Services Field Office for assistance with those species. Thank you for considering Federallylisted species during your project planning.

This letter covers only the American burying beetle. It **does not** apply to the following ESAprotected species that also may occur in the Action area:

- Alligator Snapping Turtle Macrochelys temminckii Proposed Threatened
- Monarch Butterfly *Danaus plexippus* Candidate

- Piping Plover Charadrius melodus Threatened
- Red Knot Calidris canutus rufa Threatened
- Tricolored Bat Perimyotis subflavus Proposed Endangered

If your project may affect additional listed species, you must evaluate additional DKeys for other species, or submit a request for consultation for the additional species to your local Ecological Services Field Office.

The Service recommends that your agency contact the Service or re-evaluate the project in IPaC if: 1) the scope or location of the proposed project is changed significantly, 2) new information reveals that the action may affect listed species or designated critical habitat; 3) the action is modified in a manner that causes effects to listed species or designated critical habitat; or 4) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation should take place before project changes are final or resources committed.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

GCC Ready-Mix

2. Description

The following description was provided for the project 'GCC Ready-Mix':

The proposed action would allow for a change in land use of the subject property from an industrial facility to a commercial and residential site developed with mixed used buildings for restaurants, retail, and apartments, as well as a hotel, parking garage, and apartment buildings. The potential exists for the proposed development to affect an existing USACE civil works project (levee).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@36.1316793,-95.99709591827792,14z



QUALIFICATION INTERVIEW

1. Is the action authorized, funded, or being carried out by a Federal agency? *Yes*

2. Have you determined that the proposed action will have "no effect" on the American burying beetle? (If you are unsure select "No")

No

3. Will your activity **purposefully take** American burying beetles? *No*

4. Is your project wholly inside the 4d rule Analysis Area? For areas of your project occurring inside the Analysis Area (New England, Northern Plains, Southern Plains), your project may qualify for exemptions. For areas of your project occurring outside the Analysis Area, all incidental take is exempted according to the ABB 4d Rule.

Automatically answered

Yes

5. Is American burying beetle <u>suitable habitat</u> present within the action area? *No*

PROJECT QUESTIONNAIRE

Please select the activity that best matches your proposed action.

13. Other activities with soil disturbance - briefly describe below

If you chose 13 above, please describe below. If you did not choose 13 above, please type "0".

Soil disturbance related to change of use at levee.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Justin Scott

Address: 10100 East 16th Street

City: Tulsa State: OK Zip: 74128

Email jscott@aandmengineering.com

Phone: 9186656575

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428 Phone: (918) 581-7458 Fax: (918) 581-7467

In Reply Refer To: July 17, 2023

Project Code: 2023-0105145 Project Name: GCC Ready-Mix

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

07/17/2023 2

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

07/17/2023

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

07/17/2023

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428 (918) 581-7458

PROJECT SUMMARY

Project Code: 2023-0105145 Project Name: GCC Ready-Mix

Project Type: Levee / Dike - Maintenance/Modification

Project Description: The proposed action would allow for a change in land use of the subject

property from an industrial facility to a commercial and residential site

developed with mixed used buildings for restaurants, retail, and

apartments, as well as a hotel, parking garage, and apartment buildings. The potential exists for the proposed development to affect an existing

USACE civil works project (levee).

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@36.1316793,-95.99709591827792,14z



Counties: Tulsa County, Oklahoma

ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Tricolored Bat <i>Perimyotis subflavus</i>	Proposed
No critical habitat has been designated for this species.	Endangered
Species profile: https://ecos.fws.gov/ecp/species/10515	9

BIRDS

NAME	STATUS
Pining Ployer Charadrius melodus	Threatened

Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/6039

Red Knot Calidris canutus rufa Threatened

There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/1864

REPTILES

NAME	STATUS
Alligator Snapping Turtle <i>Macrochelys temminckii</i>	Proposed
No critical habitat has been designated for this species.	Threatened
Species profile: https://ecos.fws.gov/ecp/species/4658	

INSECTS

NAME STATUS

American Burying Beetle Nicrophorus americanus

Threatened

Population: Wherever found, except where listed as an experimental population

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/66

Monarch Butterfly Danaus plexippus

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

07/17/2023

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

07/17/2023

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

BREEDING

NAME	SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Oct 15 to Aug 31
Black-billed Cuckoo <i>Coccyzus erythropthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10

NAME	BREEDING SEASON
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Eastern Whip-poor-will <i>Antrostomus vociferus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 20
Hudsonian Godwit <i>Limosa haemastica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Kentucky Warbler <i>Oporornis formosus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Upland Sandpiper <i>Bartramia longicauda</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9294	Breeds May 1 to Aug 31
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

07/17/2023

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

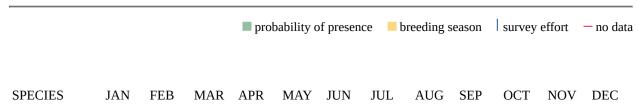
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

MIGRATORY BIRDS FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point

within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no

data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

07/17/2023

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Justin Scott

Address: 10100 East 16th Street

City: Tulsa State: OK Zip: 74128

Email jscott@aandmengineering.com

Phone: 9186656575

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers

Appendix D EDR NEPA Report

GCC Ready Mix 431 West 23rd Street Tulsa, OK 74107

Inquiry Number: 7395451.1s

July 20, 2023

EDR NEPASearch™ Map Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
EDR NEPASearch Description	1
Map Findings Summary	2
Natural Areas	. 3
Historic Sites	8
Flood Plain	32
Wetlands	37
Wetlands Classification System	40
FCC & FAA Sites	44
Key Contacts and Government Records Searched	55

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR NEPASearch DESCRIPTION

The National Environmental Policy Act of 1969 (NEPA) requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects and actions, analyze potential environmental effects of proposed actions and their alternatives for public understanding and scrutiny, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality as much as possible.

The EDR NEPASearch Map Report provides information which may be used, in conjunction with additional research, to determine whether a proposed site or action will have significant environmental effect.

TARGET PROPERTY ADDRESS

GCC READY MIX
431 WEST 23RD STREET
TULSA, OK 74107

Inquiry #: 7395451.1s
Date: 7/20/23

TARGET PROPERTY COORDINATES

Latitude (North): 36.131882 - 36° 7' 54.8" Longitude (West): 95.997261 - 95° 59' 50.1"

Universal Tranverse Mercator: Zone 15 UTM X (Meters): 230270.5 UTM Y (Meters): 4002537.5

The report provides maps and data for the following items (where available). Search results are provided in the Map Findings Summary on page 2 of this report.

Section Natural Areas Map	Regulation
 Federal Lands Data: Officially designated wilderness areas Officially designated wildlife preserves, sanctuaries and refuges 	47 CFR 1.1307(1) 47 CFR 1.1307(2)
 Wild and scenic rivers Fish and Wildlife Threatened or Endangered Species, Fish and Wildlife, Critical Habitat Data (where available) 	40 CFR 6.302(e) 40 CFR 6.302 47 CFR 1.1307(3); 40 CFR 6.302
Historic Sites Map • National Register of Historic Places • State Historic Places (where available) • Indian Reservations	47 CFR 1.1307(4); 40 CFR 6.302
Flood Plain Map • National Flood Hazard Layer Data (where available) • FEMA Q3 Flood Data (where available)	47 CFR 1.1307(6); 40 CFR 6.302 47 CFR 1.1307(6); 40 CFR 6.302
Wetlands MapNational Wetlands Inventory Data (where available)State Wetlands Data (where available)	47 CFR 1.1307(7); 40 CFR 6.302 47 CFR 1.1307(7); 40 CFR 6.302
FCC & FAA Map • FCC antenna/tower sites, FAA Markings and	47 CFR 1.1307(8)

Key Contacts and Government Records Searched

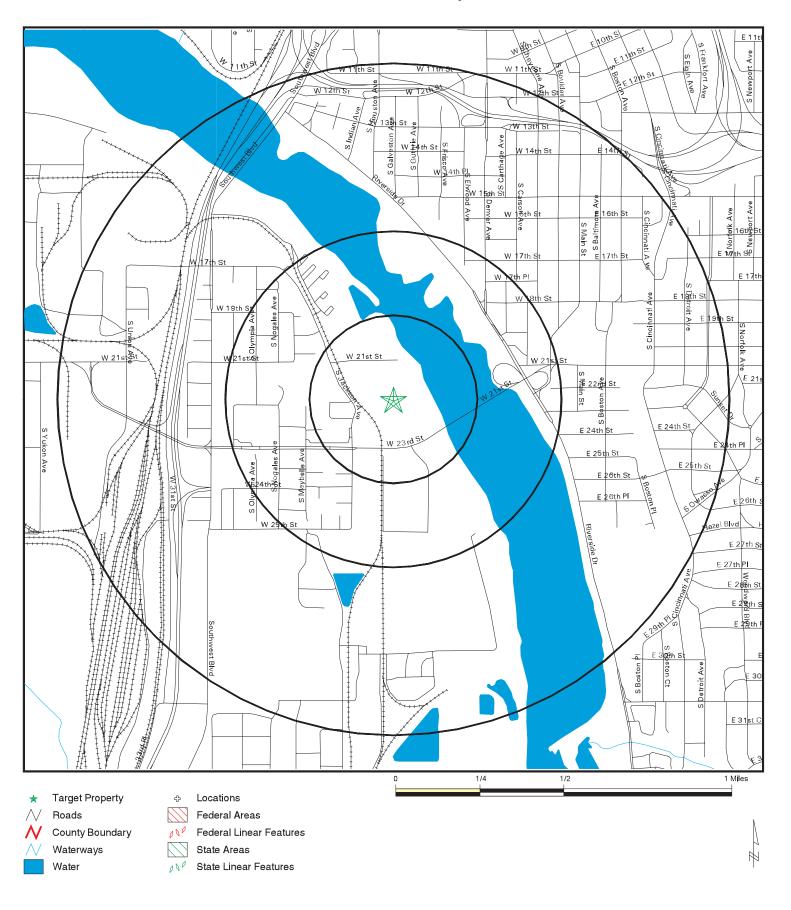
Obstructions, Airports, Topographic gradient

MAP FINDINGS SUMMARY

The databases searched in this report are listed below. Database descriptions and other agency contact information is contained in the Key Contacts and Government Records Searched section on page 55 of this report.

Applicable Regulation from 47 CFR/FCC Checklist	Database	Search Distance (Miles)	Within Search	Within 1/8 Mile
NATURAL AREAS MAP				
1.1307a (1) Officially Designated Wilderness Area	US Federal Lands	1.00	NO	NO
	US Wilderness Preservation	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	US Federal Lands	1.00	NO	NO
	US ACEC	1.00	NO	NO
	OK Protected Areas	1.00	NO	NO
	US Scenic River	1.00	NO	NO
	US Proclamation Boundaries	1.00	NO	NO
	US NCED	1.00	NO	NO
	US Critical Water Habitat	1.00	NO	NO
	US Critical Land Habitat	1.00	NO	NO
1.1307a (3) Threatened or Endangered Species or Critical Habitat	US Endangered Species	County	YES	N/A
1.1307a (3) Threatened or Endangered Species or Critical Habitat	OK Endangered Species	County	YES	N/A
HISTORIC SITES MAP				
1.1307a (4) Listed or eligible for National Register	OK Historic Sites	1.00	YES	NO
1.1307a (4) Listed or eligible for National Register	Natchez Trace National Scenic	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	Potomac Heritage National Scen	1.00	NO	NO
	Indian Reservations	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	US Trails	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	National Register of Hist. Pla	1.00	YES	NO
FLOOD PLAIN MAP				
1.1307 (6) Located in a Flood Plain	Special Flood Hazard Area (1%)	1.00	YES	YES
1.1307 (6) Located in a Flood Plain	0.2% Annual Chance Flood Hazar	1.00	YES	YES
WETLANDS MAP				
1.1307 (7) Change in surface features (wetland fill)	NWI	1.00	YES	YES
1.1307 (7) Change in surface features (wetland fill)	STATE	1.00	NO	NO
FCC & FAA SITES MAP				
	Cellular	1.00	NO	NO
	Antenna Structure Registration	1.00	YES	NO
	AM Antenna	1.00	NO	NO
	FM Antenna	1.00	NO	NO
	FAA DOF	1.00	YES	YES
	Airports	1.00	NO	
	Power Lines	1.00	YES	

Natural Areas Map



SITE NAME: GCC Ready Mix 431 West 23rd Street Tulsa OK 74107 ADDRESS:

LAT/LONG: 36.131881 / 95.997258 A&M Engineering & Envtl. Serv.

CLIENT: CONTACT: Justin W Scott

INQUIRY#: 7395451.1s DATE: July 20, 2023

TC7395451.1s Page 3 of 62

Scientific Name: Desmognathus brimleyorum

Scientific Name: Eurycea tynerensis

Federal Endangered Species from the U.S. Fish and Wildlife for OK State

Group: Amphibians

Common Name: Ouachita dusky salamander

Status: Species of Concern

Common Name: Oklahoma salamander

Status: Under Review

Group:Birds

Common Name: Black Rail Scientific Name: Laterallus jamaicensis

Status: Under Review

Common Name: Migrant loggerhead shrike Scientific Name: Lanius ludovicianus migrans

Status: Species of Concern

Group:Clams

Common Name: Western fanshell Scientific Name: Cyprogenia aberti

Status: Under Review

Common Name: [Unnamed] elktoe Scientific Name: Alasmidonta marginata

Status: Species of Concern

Common Name: Ouachita kidneyshell Scientific Name: Ptychobranchus occidentalis

Status: Species of Concern

Group:Crustaceans

Common Name: Oklahoma cave amphipod Scientific Name: Allocrangonyx pellucidus

Status: Species of Concern

Common Name: [Unnamed] crayfish Scientific Name: Cambarus tartarus

Status: Under Review

Common Name: Bat Cave isopod Scientific Name: Caecidotea macropropoda

Status: Species of Concern

Group:Fishes

Common Name: Bluehead shiner Scientific Name: Pteronotropis hubbsi

Status: Status Undefined

Common Name: Flathead chub Scientific Name: Platygobio gracilis

Status: Species of Concern

Common Name: Ouachita Mountain shiner Scientific Name: Lythrurus snelsoni

Status: Species of Concern

Common Name: Plains minnow Scientific Name: Hybognathus placitus

Status: Species of Concern

Common Name: prairie chub Scientific Name: Macrhybopsis australis

Status: Under Review

Common Name: Arkansas River speckled chub Scientific Name: Macrhybopsis aestivalis tetranemus

Status: Species of Concern

Federal Endangered Species from the U.S. Fish and Wildlife for OK State (Continued...)

Common Name: Longnose darter Scientific Name: Percina nasuta

Status: Under Review

Common Name: Rocky shiner Scientific Name: Notropis suttkusi

Status: Under Review

Common Name: Colorless shiner Scientific Name: Notropis perpallidus

Status: Under Review

Group:Flowering Plants

Common Name: Least, Ozark trillium Scientific Name: Trillium pusillum ozarkanum

Status: Species of Concern

Common Name: No common name Scientific Name: Tradescantia ozarkana

Status: Species of Concern

Common Name: [Unnamed] lady's-slipper Scientific Name: Cypripedium kentuckiense

Status: Species of Concern

Common Name: [Unnamed] sedge Scientific Name: Carex fissa

Status: Species of Concern

Common Name: [Unnamed] jewelflower Scientific Name: Streptanthus squamiformis

Status: Species of Concern

Common Name: No common name Scientific Name: Thalictrum arkansanum

Status: Species of Concern

Common Name: Seaside alder Scientific Name: Alnus maritima

Status: Under Review

Common Name: Cumberland sandreed Scientific Name: Calamovilfa arcuata

Status: Under Review

Common Name: Slender dodder Scientific Name: Cuscuta attenuata

Status: Species of Concern

Common Name: Auriculate false-foxglove Scientific Name: Agalinis auriculata

Status: Species of Concern

Common Name: Waterfall's sedge Scientific Name: Carex latebracteata

Status: Species of Concern

Common Name: Hall's bullrush Scientific Name: Schoenoplectus hallii

Status: Under Review

Common Name: Small-headed pipewort Scientific Name: Eriocaulon kornickianum

Status: Under Review

Common Name: Tissue sedge Scientific Name: Carex hyalina

Status: Species of Concern

Common Name: [Unnamed] false indigo Scientific Name: Amorpha ouachitensis

Status: Species of Concern

Federal Endangered Species from the U.S. Fish and Wildlife for OK State (Continued...)

Group:Insects

Common Name: Big Cedar grasshopper

Status: Species of Concern

Common Name: Reisen's hydropsyche caddisfly

Status: Species of Concern

Common Name: Prairie mole cricket

Status: Species of Concern

Common Name: Ozark emerald

Status: Under Review

Common Name: Monarch buttefly

Status: Under Review

Common Name: Regal fritillary

Status: Under Review

Common Name: Little riffle beetle

Status: Species of Concern

Common Name: Linda's Roadside-skipper

Status: Under Review

Common Name: Three-tooth long-horned caddisfly

Status: Under Review

Group:Mammals

Common Name: Southeastern myotis

Status: Species of Concern

Common Name: Pale Townsend's big-eared bat

Status: Species of Concern

Common Name: Texas kangaroo rat

Status: Under Review

Group:Reptiles

Common Name: Texas garter snake

Status: Species of Concern

Group:Snails

Common Name: Rich Mt. slitmouth

Status: Species of Concern

Federal Endangered Species from the U.S. Fish and Wildlife for TULSA County

Group:Birds

Common Name: Red knot

Status: Threatened

Scientific Name: Eximacris phenax

Scientific Name: Hydropsyche reiseni

Scientific Name: Gryllotalpa major

Scientific Name: Somatochlora ozarkensis

Scientific Name: Danaus plexippus plexippus

Scientific Name: Speyeria idalia

Scientific Name: Dubiraphia parva

Scientific Name: Amblyscirtes linda

Scientific Name: Triaenodes tridontus

Scientific Name: Myotis austroriparius

Scientific Name: Plecotus townsendii pallescens

Scientific Name: Dipodomys elator

Scientific Name: Thamnophis sirtalis annectens

Scientific Name: Stenotrema pilsbryi

Scientific Name: Calidris canutus rufa

Federal Endangered Species from the U.S. Fish and Wildlife for TULSA County (Continued...)

Common Name: Piping Plover Scientific Name: Charadrius melodus

Status: Threatened

Common Name: Least tern Scientific Name: Sterna antillarum

Status: Endangered

Group:Insects

Common Name: American burying beetle Scientific Name: Nicrophorus americanus

Status: Endangered

Group:Mammals

Common Name: Northern Long-Eared Bat Scientific Name: Myotis septentrionalis

Status: Threatened

OK Endangered species for TULSA County

Group: BIRDS

Common Name: BALD EAGLE Scientific Name: HALIAEETUS LEUCOCEPHALUS

Federal Status: Listed Threatened State Status: Listed Endangered

Common Name: LEAST TERN Scientific Name: STERNA ANTILLARUM

Federal Status: Listed Endangered Status: Listed Endangered

Group: INSECTS

Common Name: AMERICAN BURYING BEETLE Scientific Name: NICROPHORUS AMERICANUS

Federal Status: Listed Endangered State Status: Listed Endangered

Common Name: PRAIRIE MOLE CRICKET Scientific Name: GRYLLOTALPA MAJOR

Federal Status: Not Reported State Status: Species of special concern, possibly

threatened with extirpation, addtl

information needed.

Group: REPTILES

Common Name: TEXAS HORNED LIZARD Scientific Name: PHRYNOSOMA CORNUTUM

Federal Status: Not Reported State Status: Statewide closed Season, species

of special concern possibly threatened

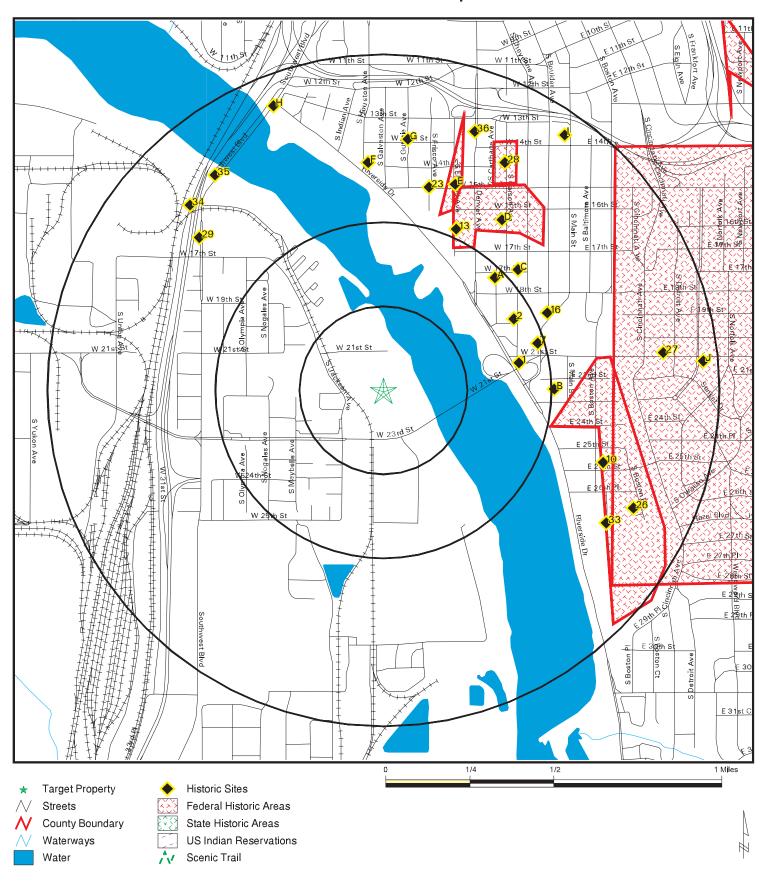
with extirpation

Map ID Direction

Distance Distance (ft.) EDR ID Database

No mapped sites were found in EDR's search of available government records within the search radius around the target property.

Historic Sites Map



SITE NAME: GCC Ready Mix ADDRESS:

431 West 23rd Street Tulsa OK 74107 LAT/LONG: 36.131881 / 95.997258 A&M Engineering & Envtl. Serv. Justin W Scott

CLIENT: CONTACT:

INQUIRY#: 7395451.1s DATE: July 20, 2023

TC7395451.1s Page 8 of 62

Map ID Direction Distance Distance (ft.)

EDR ID Database

OK2016000000440

OK Historic Sites

USHDX0000000788

National Register of Hist. Places

Buena Vista Park Historic District

ENE 1/4-1/2 mi 2174

Roughly Bounded By West 18th South, Rear Lot Lines Of Properties East Of South Cheyenne Avenue West, West 21st

South, And Riverside Drive-south Carson Avenue

Tulsa, OK

ID #: 7000919 Project Name: Not Reported **Building Type:** District Historic Function: Domestic Current Function: Domestic Area Significance: Not Reported Addtl Area Sig: Not Reported Year Built: Not Reported Not Reported Original Site: Arch Style: Not Reported Decorative Details: Not Reported Condition: Not Reported

Buena Vista Park Historic District ENE

1/4-1/2 mi 2339

Roughly bounded by W. 18th St. S, rear lot lines of E of S. Cheyenne Ave. W, W. 21st St. S and Riverside Dr./S, Carson

Tulsa, OK

07000919 Ref #: Multiple Property Name: Not Reported County: Tulsa

Restricted: Not Reported

LISTED IN THE NATIONAL REGISTER Certification:

20070906 Certification Date: District Type: # of Contrib Bldgs: 24 # of Contrib Sites: Not Reported # of Contrib Objects: Not Reported # of Contrib Structs: Not Reported

Documents:

https://npgallery.nps.gov/AssetDetail/NRIS/07000919

NE 1/4-1/2 mi 2364

Dresser, Carl K., House 235 W. 18th St.

Tulsa, OK

00000625 Multiple Property Name: Not Reported

County: Tulsa

USHBX0000021267 National Register of Hist. Places

Map ID Direction Distance Distance (ft.)

EDR ID tance (ft.)

Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20000602 Type: Building # of Contrib Bldgs: 1

of Contrib Sites: Not Reported
of Contrib Objects: Not Reported
of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/00000625

A4 Carl K Dresser House NE 235 West 18th 1/4-1/2 mi Tulsa, OK

OK2016000000879 OK Historic Sites

ID #: 625

Project Name: Not Reported Building Type: Building

Historic Function: Domestic Single Dwelling

Current Function:
Area Significance:
Addtl Area Sig:
Year Built:
Original Site:
Architecture
Not Reported
1919-1920
Not Reported
Spanish Eclectic

Decorative Details: Hipped Terra Cotta Roof, Exposed Purlins, One-story Porte Cochere,

Triple-arched Windows, Iron Railings And Balconets, French Doors.

Condition: Excellent

D5 Stonebraker Heights Historic District

NNE Roughly bounded by W. 15th St. S., Alley E of South Cheyenne 1/4-1/2 mi Ave. W., W. 17th St. S and S. Elwood Ave. W

2498 Tulsa, OK

USHDCNP00013059 National Register of Hist. Places

Ref #: 07000917
Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20070906 Type: District # of Contrib Bldgs: 67

of Contrib Sites: Not Reported
of Contrib Objects: Not Reported
of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/07000917

Map ID Direction Distance Distance (ft.)

EDR ID Database

B6 East 1/4-1/2 mi 2504 Boulder-on-the-park 1850 S. Boulder Ave.

Tulsa, OK

OK2016000001190 OK Historic Sites

ID #: 3000872 Project Name: Not Reported Building Type: Building Historic Function: Industrial Current Function: Commerce Area Significance: Communications Addtl Area Sig: Not Reported Not Reported Year Built: Original Site: Not Reported Arch Style: Moderne

Decorative Details: Six-over-one Paired And Triple Hung Wood Windows, Brick Rowlock Sills,

Brick Parapet, stone Ornamented Pediment

Condition: Excellent

/ ENE 1/4-1/2 mi 2537 Boulder-on-the-Park 1850 S. Boulder Ave. Tulsa, OK

USHBX0000021829 National Register of Hist. Places

Ref #: 03000872
Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20030902 Type: Building # of Contrib Bldgs: 1

of Contrib Sites: Not Reported
of Contrib Objects: Not Reported
of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/03000872

NE 1/4-1/2 mi 2620

A8

Moore Manor 228 W. 17th Pl. Tulsa, OK

USHBX0000020856 National Register of Hist. Places

Ref #: 82003705

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Map ID Direction Distance Distance (ft.)

EDR ID Database

Certification Date: 19820219
Type: Building
of Contrib Bldgs: 1
of Contrib Sites: 0
of Contrib Objects: 0
of Contrib Structs: 0

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/82003705

A9 NE 1/4-1/2 mi

2621

Moore Manor 228 West 17th Place

Tulsa, OK

OK2016000000772 OK Historic Sites

USHDCNP00013073

National Register of Hist. Places

ID #: 82003705
Project Name: Not Reported
Building Type: Building

Historic Function: Domestic: Single Dwelling

Current Function: Commerce/trade
Area Significance: Architecture
Addtl Area Sig: Not Reported

Year Built: 1918 Original Site: Yes

Arch Style: Noeclassical

Decorative Details: Dentils; Quoins; Arched Window Hoods; Pedimented Entry

Condition: Excellent

10

Riverside Historic Residential District

ESE 1/2-1 mi 2691 Roughly bounded by the Midland Railway Bike Trail, Riverside

Dr., S. Boston Ave., and E. 24th St. and E 21st St.

Tulsa, OK

Ref #: 04000937
Multiple Property Name: Not Reported County: Tulsa

Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20050331 Type: District # of Contrib Bldgs: 152

of Contrib Sites: Not Reported Not Reported Not Reported

of Contrib Structs: 2

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/04000937

B11 East 1/2-1 mi 2776 Harwelden 2210 South Main Tulsa, OK

OK2016000000041 OK Historic Sites

Map ID Direction **Distance** Distance (ft.)

EDR ID Database

ID #: 78002271 Project Name: Not Reported Building Type: Building Historic Function: House Current Function: Not Reported Area Significance: Not Reported Addtl Area Sig: Not Reported Year Built: 1923 Original Site: Not Reported

Arch Style: Tutor

Decorative Details: Not Reported

Condition: Good

B12 East 1/2-1 mi 2780

Harwelden 2210 S. Main St. Tulsa, OK

USHBX0000020884 **National Register of Hist. Places**

Ref#: 78002271 Multiple Property Name: Not Reported County: Tulsa

Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 19780208 Type: Building # of Contrib Bldgs: # of Contrib Sites: 0 # of Contrib Objects: 0

of Contrib Structs:

https://npgallery.nps.gov/AssetDetail/NRIS/78002271 Documents:

13 NNE 1/2-1 mi 2783

Riverview Historic District

Bounded By West 12th And 13th South, Rear Lot Lines Of Properties East Of South Elwood Avenue West, West 14th Place South, And South Riverside Drive, South Jackson Avenue West, And Rear Lot Properties West Of South Indian Avenue West

Tulsa, OK

ID #: 7000906 Project Name: Not Reported Building Type: District Historic Function: **Domestic** Current Function: Not Reported Not Reported Area Significance: Addtl Area Sig: Not Reported Year Built: Not Reported

OK2016000000437 **OK Historic Sites**

Map ID Direction Distance Distance (ft.)

EDR ID Database

Original Site:
Arch Style:
Decorative Details:
Condition:
Not Reported
Not Reported
Not Reported
Not Reported

C14 NE Creek Council Tree Site 18th and Cheyenne Sts.

1/2-1 mi Tulsa, OK 2833

USHSX0000000460 National Register of Hist. Places

Ref #: 76001576

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 19760929
Type: Site
of Contrib Bldgs: 0
of Contrib Sites: 1
of Contrib Objects: 0
of Contrib Structs: 0

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/76001576

C15 NE 1/2-1 mi 2833 Creek Council Tree Site 18th & Cheyenne Avenue

Tulsa, OK

OK2016000000026 OK Historic Sites

ID #: 76001576 Project Name: Not Reported **Building Type:** Not Reported Historic Function: Not Reported **Current Function:** Not Reported Area Significance: Not Reported Addtl Area Sig: Not Reported Year Built: Not Reported Original Site: Not Reported Arch Style: Not Reported Decorative Details: Not Reported Condition: Not Reported

16 ENE Elizabeth Manor

1/2-1 mi 2849 1820 South Boulder Avenue West

Tulsa, OK

OK2016000000126 OK Historic Sites

Map ID Direction **Distance** Distance (ft.)

EDR ID Database

ID #: 15000329 Project Name: Not Reported Building Type: Building

Historic Function: Domestic:multiple Dwelling Current Function: Commerce/trade:professional Area Significance: Community Planning & Development

Addtl Area Sig: Not Reported

Year Built: 1925 Original Site: Yes

Arch Style: Late 19th & 20th Century Revival: Late Gothic Revival/collegiate

Gothic

Decorative Details: Multi-story Bay Windows

Condition: Excellent

C17 NE 1/2-1 mi 2854

James Alexander Veasey House 1802 South Cheyenne Avenue

Tulsa, OK

OK2016000000402 **OK Historic Sites**

ID #: 89001006 Project Name: Not Reported **Building Type:** Building

Historic Function: Domestic: Single Dwelling Current Function: Domestic: Single Dwelling

Area Significance: Architecture Addtl Area Sig: Not Reported

Year Built: 1913 Original Site: Yes

Arch Style: Colonial Revival

Decorative Details: Dentils; Pedimented Entry; Columns

Condition: Excellent

C18 NE 1/2-1 mi 2857

Veasey, James Alexander, House

1802 S. Cheyenne Ave.

Tulsa, OK

USHBX0000020936 National Register of Hist. Places

89001006 Ref#: Multiple Property Name: Not Reported County: Tulsa Restricted: Not Reported

LISTED IN THE NATIONAL REGISTER Certification:

Certification Date: 19890727 Type: Building # of Contrib Bldgs:

0 # of Contrib Sites: # of Contrib Objects: 0

Map ID Direction Distance

EDR ID Distance (ft.) **Database**

of Contrib Structs:

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/89001006

E19 **Riverview Historic District**

NNE 1/2-1 mi 2900

Roughly bounded by W. 12th and 13th Sts. S, E of S. Elwood Ave. W., W. 14th Place S., S. Riverside Dr., S. Jackson Ave. Tulsa, OK

USHDCNP00013053 National Register of Hist. Places

Ref#:

07000906 Multiple Property Name: Not Reported County: Tulsa

Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20070906 Type: District # of Contrib Bldgs: 140

of Contrib Sites: Not Reported # of Contrib Objects: Not Reported # of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/07000906

F20 Stonebraker Heights Historic District

NNE 1/2-1 mi 3090

Roughly bounded by W. 15th St. S., Alley E of South Cheyenne Ave. W., W. 17th St. S and S. Elwood Ave. W

USHDCNP00013060 National Register of Hist. Places

Tulsa, OK

07000917 Ref#: Multiple Property Name: Not Reported County: Tulsa Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20070906 Type: District # of Contrib Bldgs: 67

Not Reported # of Contrib Sites: # of Contrib Objects: Not Reported # of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/07000917

Robert M Mcfarlin House D21 NE 1610 South Carson 1/2-1 mi

Tulsa, OK 3248

OK2016000000412 **OK Historic Sites**

Map ID Direction Distance Distance (ft.)

EDR ID Database

ID #: 79002031
Project Name: Not Reported
Building Type: Building

Historic Function: Domestic: Single Dwelling Current Function: Domestic: Single Dwelling

Area Significance: Architecture
Addtl Area Sig: Not Reported

Year Built: 1918 Original Site: Yes

Arch Style: Colonial Revival

Decorative Details: Full-width One-story Porch

Condition: Excellent

D22 McFarlin, Robert M., House

NE 1/2-1 mi 3248

1610 Carson Tulsa, OK USHBX0000020881 National Register of Hist. Places

Ref #: 79002031

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 19790125
Type: Building
of Contrib Bldgs: 1
of Contrib Sites: 0

of Contrib Sites: 0 # of Contrib Objects: 0 # of Contrib Structs: 0

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/79002031

23 Sophian Plaza

NNE 1/2-1 mi 3273 1500 South Frisco Avenue West

Tulsa, OK

OK2016000000095 OK Historic Sites

ID #: 11000896
Project Name: Not Reported
Building Type: Building
Historic Function: Domestic
Current Function: Domestic
Area Significance: Architecture

Addtl Area Sig: Community Planning And Development

Year Built: 1926 Original Site: Yes

Arch Style: Italian Renaissance
Decorative Details: Not Reported

Map ID Direction **Distance** Distance (ft.)

EDR ID Database

Excellent Condition:

F24 McBirney, James H., House North

1/2-1 mi 3588

1414 S. Galveston Tulsa, OK

USHBX0000020885 National Register of Hist. Places

76001577 Ref #: Multiple Property Name: Not Reported County: Tulsa Restricted: Not Reported

LISTED IN THE NATIONAL REGISTER Certification:

Certification Date: 19761113 Building Type: # of Contrib Bldgs: 2 0 # of Contrib Sites: # of Contrib Objects: 0

https://npgallery.nps.gov/AssetDetail/NRIS/76001577 Documents:

F25 North 1/2-1 mi 3590

James H. Mcbirney House 1414 South Galveston

of Contrib Structs:

Tulsa, OK

OK2016000000549 **OK Historic Sites**

ID #: 76001577 Project Name: Not Reported Building Type: Building

Historic Function:

Domestic: Single Dwelling Current Function: Domestic: Single Dwelling

Area Significance: Architecture Addtl Area Sig: Not Reported

Year Built: 1927 Original Site: Yes

Arch Style: Gothic Revival

Decorative Details: Leaded And Stained Glass Windows; Wrought Iron

Condition: Excellent

26 **Riverside Historic Residential District**

East Roughly bounded by the Midland Railway Bike Trail, Riverside

1/2-1 mi Dr., S. Boston Ave., and E. 24th St. and E 21st St.

3616 Tulsa, OK

USHDCNP00013076 **National Register of Hist. Places**

Map ID Direction Distance Distance (ft.)

EDR ID Database

Ref #: 04000937

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20050331
Type: District
of Contrib Bldgs: 152

of Contrib Sites: Not Reported # of Contrib Objects: Not Reported

of Contrib Structs: 2

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/04000937

27 Maple Ridge Historic Residential District

East Roughly bounded by Hazel Blvd., S. Peoria Ave., 14th St., 1/2-1 mi and Railroad

1/2-1 mi and Railroad 3636 Tulsa, OK

Ref #: 83002138

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

0

Certification Date: 19830406
Type: District
of Contrib Bldgs: 700
of Contrib Sites: 0
of Contrib Objects: 0

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/83002138

28 Carlton Place Historic District

of Contrib Structs:

NNE Bounded by W. 14th St. S, S. Carson Ave. W., W. 15th St. S 1/2-1 mi and S. Cathage Ave. W

1/2-1 mi and S. Cathage Ave. W

Tulsa, OK

Ref #: 07000907

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20070906 Type: District # of Contrib Bldgs: 23

of Contrib Sites: Not Reported

USHDCNP00013057

USHDCNP00013055

National Register of Hist. Places

National Register of Hist. Places

Map ID Direction **Distance**

EDR ID Distance (ft.) **Database**

> # of Contrib Objects: Not Reported

of Contrib Structs:

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/07000907

NW 1/2-1 mi 3759

Cities Service Station #8 1648 Southwest Boulevard

Tulsa, OK

OK2016000001156 **OK Historic Sites**

ID #: 11000080 Project Name: Not Reported **Building Type:** Building

Historic Function: Commerce/trade Current Function: Vacant: Not In Use Area Significance: Transportation Addtl Area Sig: Architecture CA. 1940 Year Built: Original Site: Yes

Arch Style: Modern Movement **Decorative Details:** Not Reported Condition: Excellent

G30 North 1/2-1 mi 3822

Sophian Plaza 1500 S. Frisco Ave., W.

Tulsa, OK

USHBX0000056535 National Register of Hist. Places

11000896 Ref #: Multiple Property Name: Not Reported County: Tulsa Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 20111213 Building Type: # of Contrib Bldgs:

of Contrib Sites: Not Reported # of Contrib Objects: Not Reported

of Contrib Structs:

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/11000896

G31 North 1/2-1 mi 4041

Clinton-Hardy House 1322 S. Guthrie Tulsa, OK

USHBX0000020880 National Register of Hist. Places

Map ID Direction Distance Distance (ft.)

EDR ID Database

79002027 Ref #: Multiple Property Name: Not Reported County: Tulsa Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 19790123 Building Type: # of Contrib Bldgs: # of Contrib Sites: 0 # of Contrib Objects: 0 # of Contrib Structs: 0

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/79002027

G32 North 1/2-1 mi 4041

Clinton-hardy House 1322 South Guthrie Tulsa, OK

79002027

ID #: Project Name: Not Reported **Building Type:** Building Historic Function: Not Reported **Current Function:** Not Reported Area Significance: Not Reported Addtl Area Sig: Not Reported

Year Built: 1913 Original Site: Not Reported

Arch Style: Colonial

Decorative Details: Porte Cochere, Lapped Siding, gabled Roof, Doric Columns Condition: Good

33 **ESE** 1/2-1 mi 4075

Riverside Historic Residential District

Riverside Drive; South Boston; East 24th And East 21st Street

Tulsa, OK

OK2016000000831 **OK Historic Sites**

OK2016000000181

OK Historic Sites

ID #: 4000937 Project Name: Not Reported **Building Type:** District

Historic Function: Domestic: Single Dwelling; Domestic: Multiple Dwelling Domestic: Single Dwelling; Domestic: Multiple Dwelling Current Function:

Area Significance: Community Planning And Development

Addtl Area Sig: Architecture Year Built: 1920-1956 Original Site: Yes

Arch Style: Colonial Revival; Tudor Revival; Ranch; International Style; Bungalow;

Prairie School; Minimal Traditional

Map ID Direction **Distance** Distance (ft.)

EDR ID Database

Decorative Details: Not Reported Condition: Excellent

Cities Service Station #8 NW 1648 SW Boulevard

USHBX0000013920 National Register of Hist. Places

1/2-1 mi Tulsa, OK 4208

> Ref#: 11000080

Multiple Property Name: Route 66 and Associated Resources in Oklahoma AD MPS

County: Tulsa Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

20110314 Certification Date: Type: Building # of Contrib Bldgs:

of Contrib Sites: Not Reported # of Contrib Objects: Not Reported # of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/11000080

35 Eleventh Street Arkansas River Bridge

NW 1/2-1 mi

4295

US 66 over the Arkansas R., from Tulsa to W. Tulsa

Tulsa, OK

USHSTX000065369 National Register of Hist. Places

96001488 Ref #:

Multiple Property Name: Route 66 in Oklahoma MPS

County: Tulsa Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 19961213 Type: Structure

of Contrib Bldgs: 0 # of Contrib Sites: 0 # of Contrib Objects: 0 # of Contrib Structs:

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/96001488

Belmont Apartments

NNE 1314 South Denver Avenue West

1/2-1 mi 4314

Tulsa, OK

OK2016000000991 **OK Historic Sites**

Map ID Direction **Distance**

EDR ID Distance (ft.) **Database**

> ID #: 15000876 Project Name: Not Reported Building Type: Building

Historic Function: Domestic: Multiple Dwelling Domestic: Multiple Dwelling Current Function:

Area Significance: Community Planning And Development

Addtl Area Sig: Not Reported

Year Built: 1925 Original Site: Yes Arch Style: Art Deco Decorative Details: Not Reported Condition: Excellent

H37 **Eleventh Street Arkansas River Bridge**

NNW US 66 over the Arkansas R., from Tulsa to W. Tulsa 1/2-1 mi Tulsa, OK 4793

USHSTX000065368 **National Register of Hist. Places**

Ref#: 96001488

Multiple Property Name: Route 66 in Oklahoma MPS

County: Tulsa Restricted: Not Reported

LISTED IN THE NATIONAL REGISTER Certification:

Certification Date: 19961213 Type: Structure

of Contrib Bldgs: 0 # of Contrib Sites: 0 # of Contrib Objects: 0 # of Contrib Structs:

https://npgallery.nps.gov/AssetDetail/NRIS/96001488 Documents:

H38 Eleventh Street Arkansas River Bridge NNW Us-66 Over The Arkansas River 1/2-1 mi

Tulsa, OK

4794

OK2016000000239 **OK Historic Sites**

ID #: 96001488

Project Name: Route 66 Historic Resources Survey 2001-2002

Building Type: Structure Historic Function: Transportation **Current Function:** Not Reported Area Significance: Transportation Addtl Area Sig: Engineering Year Built: 1916-1917

Original Site: Arch Style: Multiple-span Reinforced Concrete

Decorative Details: Not Reported

Map ID Direction **Distance**

4921

EDR ID Distance (ft.) **Database**

> Fair Condition:

139 **Ambassador Hotel** NE 1314 S. Main 1/2-1 mi Tulsa, OK

USHBX0000021136 National Register of Hist. Places

99001085 Ref #: Multiple Property Name: Not Reported County: Tulsa Restricted: Not Reported

LISTED IN THE NATIONAL REGISTER Certification:

19991117 Certification Date: Building Type: # of Contrib Bldgs:

Not Reported # of Contrib Sites: # of Contrib Objects: Not Reported # of Contrib Structs: Not Reported

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/99001085

140 ΝE 1/2-1 mi 4922

Ambassador Hotel 1314 S Main Tulsa, OK

Original Site:

OK2016000000641 **OK Historic Sites**

ID #: 99001085 Project Name: Not Reported **Building Type:** Building Historic Function: Hotel Current Function: Hotel Area Significance: Architecture Addtl Area Sig: Not Reported Year Built: 1929

Yes Arch Style: Mission/spanish Colonial Revival

Decorative Details: Limestone Sills, Polychrome Terra Cotta Ornaments, Central Blue

Medallion Arched Window Heads

Condition: Good

J41 East 1/2-1 mi 5050

William G. Skelly House 2101 South Madison

Tulsa, OK

OK2016000000197 **OK Historic Sites**

Map ID Direction Distance Distance (ft.)

EDR ID Database

ID #: 78002275
Project Name: Not Reported
Building Type: Building

Historic Function: Domestic: Single Dwelling Current Function: Domestic: Single Dwelling

Area Significance:
Addtl Area Sig:
Year Built:
Original Site:

Architecture
Industry
1923
Yes

Arch Style: Neoclassical

Decorative Details: Two Story Porch On Facade; Two Story Columns; Fanlights Over Windows

Condition: Excellent

J42 Skelly, William G., House East 2101 S. Madison 1/2-1 mi Tulsa, OK

USHBX0000020882 National Register of Hist. Places

Ref #: 78002275

Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: LISTED IN THE NATIONAL REGISTER

Certification Date: 19781128
Type: Building
of Contrib Bldgs: 1
of Contrib Sites: 0
of Contrib Objects: 0

of Contrib Sites: 0
of Contrib Objects: 0
of Contrib Structs: 0

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/78002275

Due to poor or inadequate address information, the following sites were not mapped:

Status EDR ID Database

Unmappable OK2016000001003

Unmappable OK201600000109

OK Historic Sites

OK Historic Sites

Blue Dome Historic District

Roughly Between South Kenosha And South Detroit, Frisco Rr

Tracks And East 8th

Tulsa, OK

ID #: 11000895
Project Name: Not Reported
Building Type: District

Historic Function: Commerce, Industry, Transportation, Domestic, Government

Current Function: Commerce, Industry, Domestic

Area Significance: Transportation
Addtl Area Sig: Commerce
Year Built: 1903-1965

Original Site: Yes

Arch Style: Commercial, Moderne, Art Deco, International, Mission/spanish Colonial

Decorative Details: Not Reported

Condition: Good

Brady Historic District

Roughly Along E/w Cameron And E/w Archer, From N Boulder To

N Detroit Tulsa, OK

ID #: 10000618
Project Name: Not Reported
Building Type: District
Historic Function: Not Reported
Current Function: Not Reported

Area Significance: Community Planning And Development

Addtl Area Sig:
Year Built:
Original Site:
Arch Style:
Decorative Details:
Commerce
1906-1964
Yes
Multiple
Not Reported
Good

Casa Loma Hotel 2626-2648 East Eleventh Street Tulsa, OK

ID #: 10000805
Project Name: Not Reported
Building Type: Building

Historic Function: Commerce/trade; Domestic: Hotel

Unmappable OK2016000000110 OK Historic Sites

Due to poor or inadequate address information, the following sites were not mapped:

Status EDR ID Database

Current Function: Commerce/trade; Domestic: Hotel

Area Significance: Architecture
Addtl Area Sig: Transportation

Year Built: 1927 Original Site: Yes

Arch Style: Mission/spanish Colonial Revival

Decorative Details: Not Reported Condition: Excellent

Katy Railroad Historic District Roughly Along W. Easton And The Old Katy Railroad Row, Btwn N. Cheyenne And Boston Tulsa, OK Unmappable OK2016000001101 OK Historic Sites

ID #: 10001012
Project Name: Not Reported
Building Type: District

Historic Function: Commerce/trade; Recreation And Culture; Social

Current Function: Commerce/trade; Recreation And Culture

Area Significance:
Addtl Area Sig:
Year Built:
Original Site:

Commerce
Not Reported
1913-1964
Yes

Arch Style: Commercial; Art Deco; Moderne

Decorative Details: Not Reported

Condition: Good

Katy Railroad Historic District Roughly Along W. Easton And The Old Katy Railroad Row, Btwn N. Cheyenne And Boston Tulsa, OK Unmappable OK2016000001052 OK Historic Sites

ID #: 10001012
Project Name: Not Reported
Building Type: District

Historic Function: Commerce/trade; Recreation And Culture; Social Current Function: Commerce/trade; Recreation And Culture

Area Significance:
Addtl Area Sig:
Year Built:
Original Site:

Not Reported
1913-1964
Yes

Arch Style: Commerical; Art Deco; Moderne

Decorative Details: Not Reported

Condition: Good

Due to poor or inadequate address information, the following sites were not mapped:

Status EDR ID Database

North Cheyenne Historic District

Roughly Along E./w. Frisco Tracks & Alley Between W. Archer

And W. Brady Tulsa, OK Unmappable OK2016000000086 OK Historic Sites

ID #: 10001011
Project Name: Not Reported

Building Type: District

Historic Function: Commerce/trade; Industry; Transportation Current Function: Commerce/trade; Industry; Transportation

Area Significance: Commerce
Addtl Area Sig: Not Reported
Year Built: 1908-1956

Original Site: Yes

Arch Style: Late 19th And 20th Century Revival Styles: Spanish Mission Revival;

Late 19th And 20th Century Revival Styles: Colonial Revival; Late 19th And 20th Century American Movements: Commercial; Modern Movement:

Moderne

Decorative Details: Not Reported

Condition: Good

Oil Capital Historic District

Roughly Between 3rd And 7th Streets And Cincinnati And

Cheyenne Tulsa, OK Unmappable OK2016000001100 OK Historic Sites

ID #: 10001013
Project Name: Not Reported

Building Type: District

Historic Function: Commerce/trade; Government; Domestic; Social; Religion; Landscape Current Function: Commerce/trade; Government; Domestic; Social; Religion; Landscape

Area Significance:
Addtl Area Sig:
Year Built:
Original Site:

Commerce
Not Reported
1913-1967
Yes

Arch Style: Moderne; Art Deco; Italianate; Mission/spanish Colonial Revival

Decorative Details: Not Reported Condition: Excellent

Sally Ann Apartments 1309-1313, 1310-1314 S Jackson Avenue Tulsa, OK

ID #: 15000581

Unmappable OK2016000000789 OK Historic Sites

Due to poor or inadequate address information, the following sites were not mapped:

Status

EDR ID

Database

Project Name: Not Reported Building Type: Building

Historic Function: Domestic: Multiple Dwelling Current Function: Domestic: Multiple Dwelling

Area Significance: Community Planning And Development

Addtl Area Sig: Architecture
Year Built: 1948
Original Site: Yes

Arch Style: Modern Movement
Decorative Details: Not Reported
Condition: Excellent

Sixth Street Commercial/residential Historic District Roughly Along East Sixth Street From South Peoria Avenue To The Northsouth Alley Between Quaker And Quincy Avenues Tulsa, OK Unmappable OK2016000001023 OK Historic Sites

ID #: 9000687
Project Name: Not Reported
Building Type: District

Historic Function: Comerce/trade: Specialty Store, Restaurant; Domestic: Multiple

Dwelling

Current Function: Commerce/trade: Specialty Store; Vacant/not In Use; Domestic: Multiple

Dwelling

Area Significance: Community Planning And Development

Addtl Area Sig: Not Reported Year Built: 1919-1960

Original Site: Yes

Arch Style: Late 19th And 20th Century American Movements: Commercial Style,

Bungalow/craftsman

Decorative Details: Brick Walls, Stone Details, Garage Storefronts

Condition: Good

Tulsa Civic Center Historic District Between West Third And Sixth Streets And South Houston And Denver Avenue Tulsa, OK Unmappable OK2016000000088 OK Historic Sites

ID #: 11000641
Project Name: Not Reported
Building Type: District

Historic Function: Government, Education, Recreation/culture Current Function: Government, Education, Recreation/culture Area Significance: Community Planning And Development

Addtl Area Sig: Architecture

Due to poor or inadequate address information, the following sites were not mapped:

Status EDR ID Database

Year Built: 1955-1969
Original Site: Yes
Arch Style: International
Decorative Details: Not Reported

Condition:

Tulsa Race Riot of 1921 Historic District Roughly N. Cincinnati, E. King, N. & S. Greenwood, Archer, Boston, Boulder, Brady, Main, 1st, 2nd, 4th, & 6th Sts. Tulsa, OK

Good

Unmappable 12001041 National Register of Hist. Places

Ref #: 12001041
Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: DATE RECEIVED/PENDING NOMINATION

Certification Date: 20121026
Type: District
of Contrib Bldgs: 12
of Contrib Sites: 5

of Contrib Objects: Not Reported

of Contrib Structs: 1

Tulsa, OK

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/12001041

Whittier Square Historic District Roughly Between Lewis Avenue, Zunis Avenue, East First Street Unmappable OK2016000000093 OK Historic Sites

ID #: 12000348
Project Name: Not Reported
Building Type: District

Historic Function: Commerce, Trade, Social, Government, Domestic Current Function: Commerce, Trade, Recreation/culture, Domesitc

Area Significance: Community Planning And Development, Commerce And Trade, Transportation

Addtl Area Sig: Not Reported Year Built: 194-1965 Original Site: Yes

Arch Style: Commerical, Moderne, Bungalow/craftsman, No Style

Decorative Details: Not Reported

Condition: Good

Woodward Park and Gardens Historic District 2101 & 2435 S. Peoria Ave. Tulsa, OK Unmappable 14000054 National Register of Hist. Places

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID

EDR ID Database

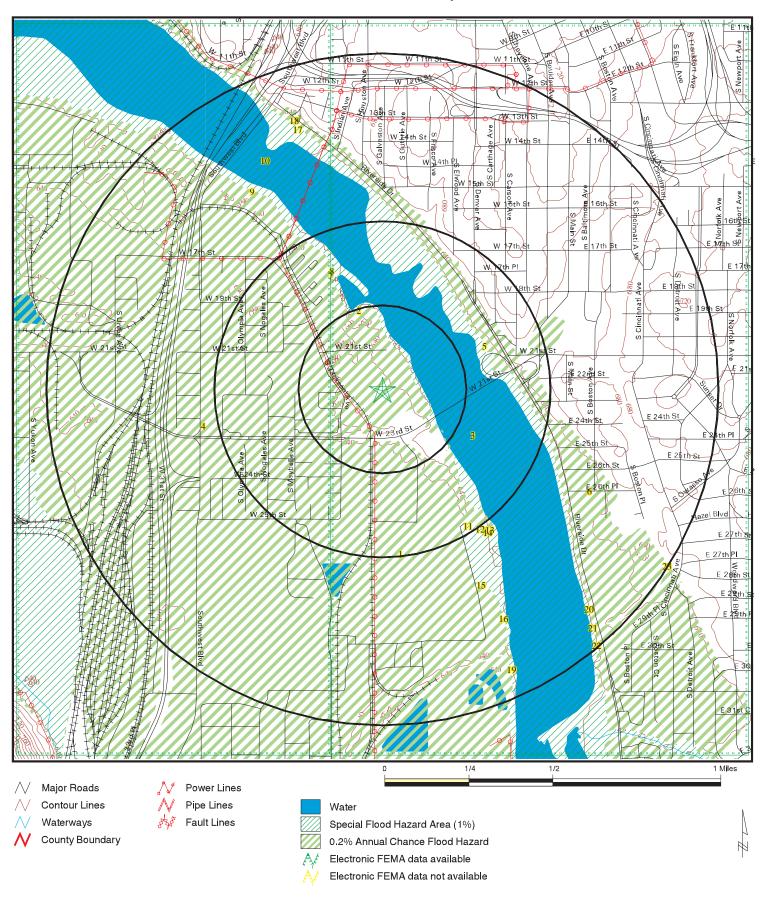
Ref #: 14000054
Multiple Property Name: Not Reported
County: Tulsa
Restricted: Not Reported

Certification: DATE RECEIVED/PENDING NOMINATION Certification Date: 20140123

Certification Date: 2014012
Type: District
of Contrib Bldgs: 5
of Contrib Sites: 7
of Contrib Objects: 11
of Contrib Structs: 3

Documents: https://npgallery.nps.gov/AssetDetail/NRIS/14000054

Flood Plain Map



SITE NAME: GCC Ready Mix 431 West 23rd Street Tulsa OK 74107 ADDRESS:

36.131881 / 95.997258

LAT/LONG:

A&M Engineering & Envtl. Serv. Justin W Scott

CLIENT: CONTACT:

INQUIRY#: 7395451.1s DATE: July 20, 2023

TC7395451.1s Page 32 of 62

Source: FEMA FIRM Flood Data, FEMA Q3 Flood Data

Flood Panel Number FEMA Source Type

Flood Plain panel at target property:

40143C0240L (FEMA FIRM Flood data)

Additional Flood Plain panel(s) in search area:

40143C0220L (FEMA FIRM Flood data) 40143C0332L (FEMA FIRM Flood data) 40143C0351L (FEMA FIRM Flood data) 40037C0185D (FEMA FIRM Flood data)

Sub Type:

Map ID Direction Distance

1679

Description Distance (ft.) Database Special Flood Hazard Area: **FLOODPLAIN** North Flood Hazard Area: 0.2% Annual Chance Flood Hazard 0-1/16 mi Flood Zone: 0.2 PCT ANNUAL CHANCE FLOOD HAZARD Sub Type: Special Flood Hazard Area: **FLOODPLAIN** Yes **ENE** Flood Hazard Area: Special Flood Hazard Area (1%) 1/16-1/8 mi Flood Zone: ΑE 494 Sub Type: Not Reported 3 Special Flood Hazard Area: **FLOODPLAIN** Yes **ENE** Flood Hazard Area: Special Flood Hazard Area (1%) Flood Zone: 1/16-1/8 mi ΑE 506 Sub Type: **FLOODWAY** Special Flood Hazard Area: **FLOODPLAIN** West Flood Hazard Area: 0.2% Annual Chance Flood Hazard 1/8-1/4 mi Flood Zone: 0.2 PCT ANNUAL CHANCE FLOOD HAZARD 811 Sub Type: Special Flood Hazard Area: Yes **FLOODPLAIN** Flood Hazard Area: **ENE** Special Flood Hazard Area (1%) Flood Zone: 1/4-1/2 mi ΑE

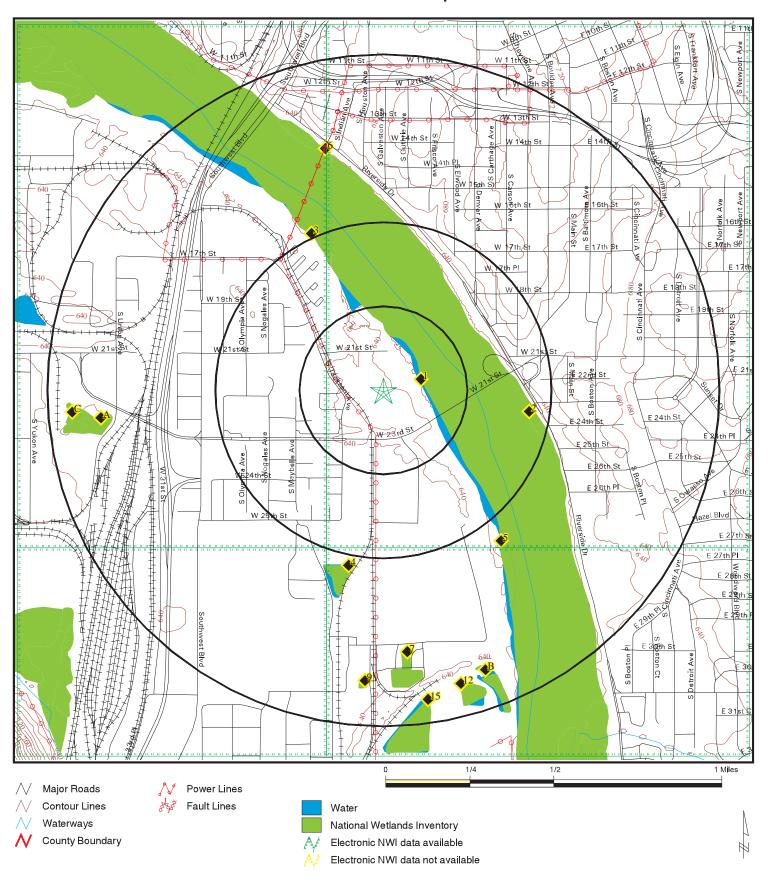
Not Reported

Map ID Direction Distance Distance (ft.)	Descript	Database	
6 ENE 1/4-1/2 mi 1692	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZ	FLOODPLAIN ZARD
7	Special Flood Hazard Area:	Yes	FLOODPLAIN
NNW	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/4-1/2 mi	Flood Zone:	AE	
1970	Sub Type:	Not Reported	
8 NNW 1/4-1/2 mi 1999	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZ	FLOODPLAIN ZARD
9	Special Flood Hazard Area:	Yes	FLOODPLAIN
NNW	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/4-1/2 mi	Flood Zone:	AE	
2099	Sub Type:	Not Reported	
10	Special Flood Hazard Area:	Yes	FLOODPLAIN
NNW	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/4-1/2 mi	Flood Zone:	AE	
2196	Sub Type:	FLOODWAY	
11	Special Flood Hazard Area:	Yes	FLOODPLAIN
SSE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/4-1/2 mi	Flood Zone:	AE	
2486	Sub Type:	Not Reported	
12	Special Flood Hazard Area:	Yes	FLOODPLAIN
SE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/4-1/2 mi	Flood Zone:	AE	
2612	Sub Type:	Not Reported	
13	Special Flood Hazard Area:	Yes	FLOODPLAIN
SE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
2749	Sub Type:	Not Reported	

Map ID Direction Distance Distance (ft.)	Descript	Database	
14	Special Flood Hazard Area:	Yes	FLOODPLAIN
SE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
2778	Sub Type:	Not Reported	
15	Special Flood Hazard Area:	Yes	FLOODPLAIN
SSE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
3408	Sub Type:	Not Reported	
16	Special Flood Hazard Area:	Yes	FLOODPLAIN
SSE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
3615	Sub Type:	Not Reported	
17	Special Flood Hazard Area:	Yes	FLOODPLAIN
NNW	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
3758	Sub Type:	Not Reported	
18 NNW 1/2-1 mi 3810	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HAZ	FLOODPLAIN ARD
19	Special Flood Hazard Area:	Yes	FLOODPLAIN
SSE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
4624	Sub Type:	Not Reported	
20	Special Flood Hazard Area:	Yes	FLOODPLAIN
SE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
4658	Sub Type:	Not Reported	
21	Special Flood Hazard Area:	Yes	FLOODPLAIN
SE	Flood Hazard Area:	Special Flood Hazard Area (1%)	
1/2-1 mi	Flood Zone:	AE	
4899	Sub Type:	Not Reported	

Map ID Direction Distance Distance (ft.)	Descript	ion	Database
22 SE 1/2-1 mi 5193	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	Yes Special Flood Hazard Area (1%) AE Not Reported	FLOODPLAIN
23 ESE 1/2-1 mi 5237	Special Flood Hazard Area: Flood Hazard Area: Flood Zone: Sub Type:	No 0.2% Annual Chance Flood Hazard X 0.2 PCT ANNUAL CHANCE FLOOD HA	FLOODPLAIN ZARD

Wetlands Map



SITE NAME: GCC Ready Mix 431 West 23rd Street Tulsa OK 74107 ADDRESS:

36.131881 / 95.997258

LAT/LONG:

A&M Engineering & Envtl. Serv. Justin W Scott CLIENT: CONTACT:

July 20, 2023

INQUIRY #: 7395451.1s

DATE:

TC7395451.1s Page 37 of 62

WETLANDS MAP FINDINGS

Source: Fish and Wildlife Service NWI data

NWI hardcopy map at target property: Tulsa Additional NWI hardcopy map(s) in search area: Sand Springs

Sand Springs Jenks Sapulpa North

Map ID Direction Distance

Distance Distance (fr	t.) Code and Description*	Database
1 ENE 0-1/8 mi 616	R2UBH [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded Lat/Lon: 36.132359 / -95.995255	NWI
2 East 1/4-1/2 mi 2315	PFO1A [P] Palustrine [FO] Forested [1] Broad-Leaved Deciduous [A] Temporarily Flooded Lat/Lon: 36.130970 / -95.989510	NWI
3 NNW 1/2-1 mi 2713	PEM1C [P] Palustrine [EM] Emergent [1] Persistent [C] Seasonally Flooded Lat/Lon: 36.138653 / -96.001083	NWI
4 South 1/2-1 mi 2803	PUBHx [P] Palustrine [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 36.124332 / -95.999107	NWI
5 SE 1/2-1 mi 3003	R2USC [R] Riverine [2] Lower Perennial [US] Unconsolidated Shore [C] Seasonally Flooded Lat/Lon: 36.125389 / -95.990997	NWI
6 NNW 1/2-1 mi 3906	PSS1C [P] Palustrine [SS] Scrub Shrub [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 36.142311 / -96.000336	NWI
7 South 1/2-1 mi 4123	PUBHx [P] Palustrine [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 36.120605 / -95.995979	NWI
A8 West 1/2-1 mi 4275	PEM1/SS1C [P] Palustrine [EM] Emergent [1] Persistent / [SS] Scrub Shrub [1] Broad-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 36.130768 / -96.011665	NWI

^{*}See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.) Code and Description*	Database
9 South 1/2-1 mi 4569	PUBHx [P] Palustrine [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 36.119358 / -95.998230	NWI
B10 SSE 1/2-1 mi 4577	PUBHx [P] Palustrine [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 36.120018 / -95.992134	NWI
A11 West 1/2-1 mi 4644	PUBF [P] Palustrine [UB] Unconsolidated Bottom [F] Semipermanently Flooded Lat/Lon: 36.130627 / -96.012901	NWI
12 SSE 1/2-1 mi 4766	PEM1C [P] Palustrine [EM] Emergent [1] Persistent [C] Seasonally Flooded Lat/Lon: 36.119228 / -95.993134	NWI
B13 SSE 1/2-1 mi 4771	PEM1C [P] Palustrine [EM] Emergent [1] Persistent [C] Seasonally Flooded Lat/Lon: 36.119637 / -95.991516	NWI
C14 West 1/2-1 mi 4895	PUBF [P] Palustrine [UB] Unconsolidated Bottom [F] Semipermanently Flooded Lat/Lon: 36.131176 / -96.013802	NWI
15 South 1/2-1 mi 4907	PUBHx [P] Palustrine [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 36.118546 / -95.994873	NWI
C16 West 1/2-1 mi 4907	PUBF [P] Palustrine [UB] Unconsolidated Bottom [F] Semipermanently Flooded Lat/Lon: 36.130711 / -96.013802	NWI

WETLANDS CLASSIFICATION SYSTEM

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a sub-department of the U.S. Department of the Interior. In 1974, the U.S. Fish and Wildlife Service developed a criteria for wetland classification with four long range objectives:

- · to describe ecological units that have certain homogeneous natural attributes,
- · to arrange these units in a system that will aid decisions about resource management,
- · to furnish units for inventory and mapping, and
- to provide uniformity in concepts and terminology throughout the U.S.

High altitude infrared photographs, soil maps, topographic maps and site visits are the methods used to gather data for the productions of these maps. In the infrared photos, wetlands appear as different colors and these wetlands are then classified by type. Using a hierarchical classification, the maps identify wetland and deepwater habitats according to:

- system
- subsystem
- · class
- subclass
- modifiers

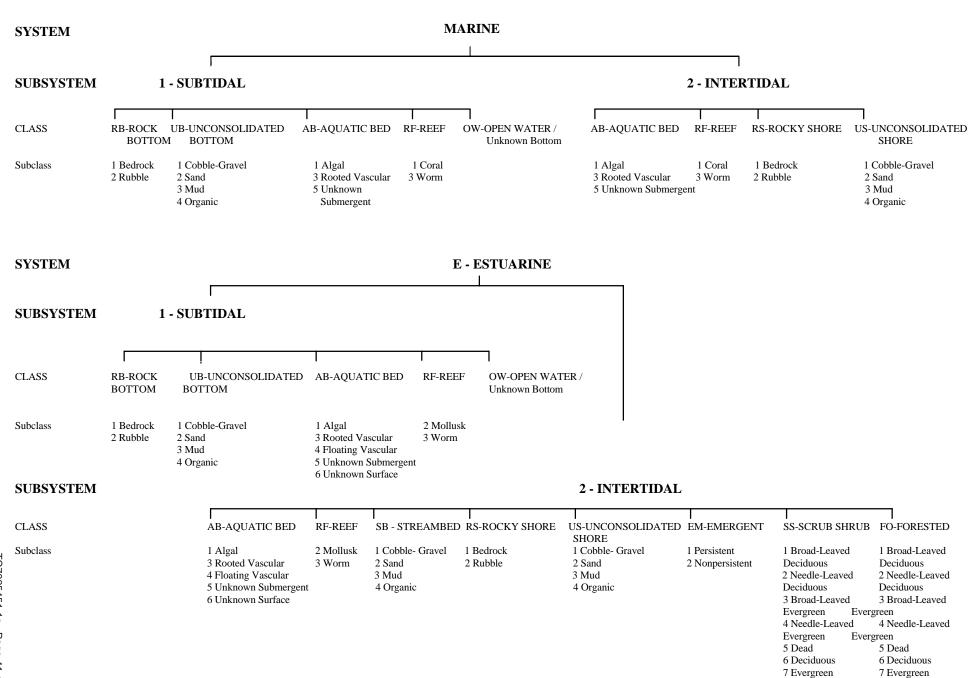
(as defined by Cowardin, et al. U.S. Fish and Wildlife Service FWS/OBS 79/31. 1979.)

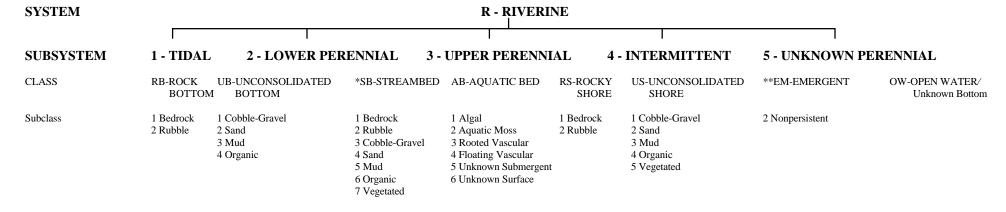
The classification system consists of five systems:

- 1. marine
- 2. estuarine
- 3. riverine
- 4. lacustrine
- 5. palustrine

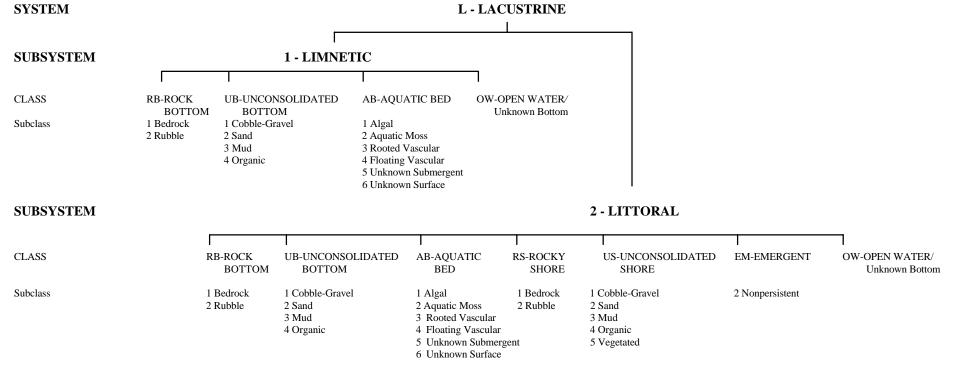
The marine system consists of deep water tidal habitats and adjacent tidal wetlands. The riverine system consists of all wetlands contained within a channel. The lacustrine systems includes all nontidal wetlands related to swamps, bogs & marshes. The estuarine system consists of deepwater tidal habitats and where ocean water is diluted by fresh water. The palustrine system includes nontidal wetlands dominated by trees and shrubs and where salinity is below .5% in tidal areas. All of these systems are divided in subsystems and then further divided into class.

National Wetland Inventory Maps are produced by transferring gathered data on a standard 7.5 minute U.S.G.S. topographic map. Approximately 52 square miles are covered on a National Wetland Inventory map at a scale of 1:24,000. Electronic data is compiled by digitizing these National Wetland Inventory Maps.





^{*} STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.



^{**}EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

MODIFIERS

7 Evergreen

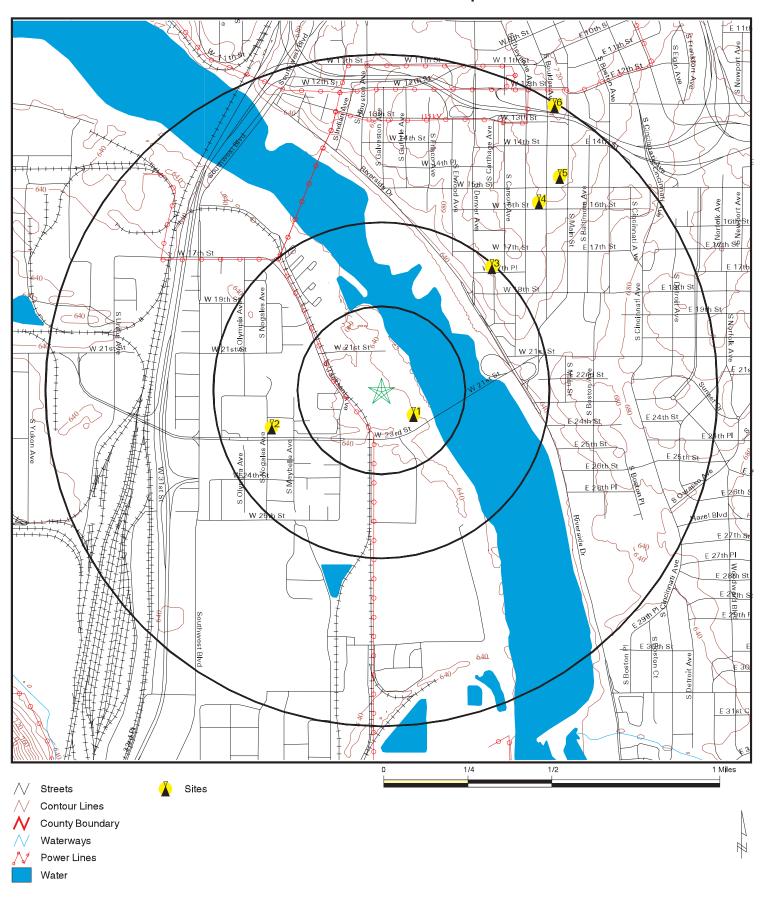
7 Evergreen

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
A Temporarily Flooded B Saturated C Seasonally Flooded D Seasonally Flooded/ Well Drained	Fidal CoastalHa H Permanently Flooded J Intermittently Flooded K Artificially Flooded W Intermittently Flooded/Temporary	alinityInlandSalinitypHMo K Artificially Flooded L Subtidal M Irregularly Exposed N Regularly Flooded P Irregularly Flooded		1 Hyperhaline 2 Euhaline 3 Mixohaline (Brackish) 4 Polyhaline 5 Mesohaline	7 Hypersaline 8 Eusaline	all Fresh Water a Acid t Circumneutral i Alkaline	g Organic n Mineral	b Beaver d Partially Drained/Ditched f Farmed h Diked/Impounded r Artificial Substrate
E Seasonally Flooded/ Saturated F Semipermanently Flooded G Intermittently Exposed	Y Saturated/Semipermanent/ Seasonal Z Intermittently Exposed/Permanent U Unknown	<u> </u>	rimes are only used in ed, freshwater systems.	6 Oligohaline 0 Fresh				s Spoil x Excavated

Source: U.S. Department of the Interior Fish and Wildlife Service National Wetlands Inventory

FCC & FAA Sites Map



SITE NAME: GCC Ready Mix ADDRESS: 431 West 23rd Street Tulsa OK 74107

36.131881 / 95.997258

LAT/LONG:

CLIENT: A&M Engineering & Envtl. Serv. CONTACT: Justin W Scott

INQUIRY #: 7395451.1s DATE: July 20, 2023

TC7395451.1s Page 44 of 62

Map ID Direction Distance

Distance (ft.)

EDR ID Database

1 SE DOF161200242669 FAA DOF

0-1/8 mi 632

Obstacle #: 40-000301
Obstacle Type: TOWER
Quantity: 1

Ft Above Ground: 320 Ft Above Sea Level: 960 Verification Status: Verified Lighting: Unknown Not Reported Horizontal Accuracy: Vertical Accuracy: Not Reported Markings: Marked Action: Dismantle 1990260 Action Date:

WSW 1/4-1/2 mi

1820

ANT130000071166 ANTREG

Registration #: 1223708 File #: A0215746 Issue Date: 9/28/2001

Entity: United States Cellular Corporation

Height: 42.6

Address: West half of Block X, River View Park Addition in Tulsa County, State

of Oklahom 01-ASW-4267-OE

FAA Study: 01-ASW-4267-FAA Circular: Not Reported License ID: L00127162 Contact Name: Not Reported

Contact Address: 8410 W. BRYN MAWR AVENUE, SUITE 700

Contact City: CHICAGO
Contact State: IL
Contact Zip: 60631

ASR Search: http://wireless2.fcc.gov/UlsApp/AsrSearch/asrRegistrationSearch.jsp

This record is for a license, and it may or may not indicate a site which has been built.

Map ID Direction Distance Distance (ft.)

EDR ID Database

FAA DOF

DOF161200242708

3

ΝE 1/4-1/2 mi 2606

40-000374

Quantity:

Obstacle #:

Obstacle Type: **TOWER** Ft Above Ground: 443 Ft Above Sea Level: 1133 Verification Status: Verified Lighting: Red Horizontal Accuracy: +/- 500 ft Vertical Accuracy: +/- 50 ft Markings: Marked Action: Change Action Date: 2014138

> DOF161200242723 FAA DOF

NE 1/2-1 mi 3855

40-000592 Obstacle #: Obstacle Type: BLDG Quantity: 1 Ft Above Ground: 260 Ft Above Sea Level: 960 Verification Status: Verified Lighting: None Horizontal Accuracy: +/- 100 ft Vertical Accuracy: +/- 20 ft Markings: None Change Action: Action Date: 2014138

Map ID Direction Distance Distance (ft.)

EDR ID Database

5 NE DOF161200242729 FAA DOF

1/2-1 mi 4377

Obstacle #: 40-001402
Obstacle Type: BLDG
Quantity: 1
Ft Above Ground: 243
Ft Above Sea Level: 950
Verification Status: Verified
Lighting: Unknown

Horizontal Accuracy: +/- 100 ft
Vertical Accuracy: +/- 20 ft
Markings: None
Action: Change
Action Date: 2014138

6 NNE 1/2-1 mi 5237 DOF161200242743 FAA DOF

40-001403 Obstacle #: Obstacle Type: BLDG Quantity: 1 Ft Above Ground: 205 Ft Above Sea Level: 926 Verification Status: Verified Lighting: Unknown Horizontal Accuracy: +/- 100 ft Vertical Accuracy: +/- 20 ft Markings: None Change Action: Action Date: 2014138

FCC & FAA SITES MAP FINDINGS AIRPORTS

EDR ID Database

No Sites Reported.

EDR ID Database

107148 **POWERLINES**

Voltage:

Range: Not Reported

Hi voltage: 0

Volt cat: 0-69 kV

Type: Alternating current

Status: Active Single line Corridor:

Owner: American Electric Power

Owner id: **AMELECCO** Num owners: Single Owner

Public Service Co. of Oklahoma Operator:

Operator id: **PSO**

Last owner: Not Reported Not Reported Last own id: Last oper: Not Reported Last oper id: Not Reported .38869407 Mileage:

24610

POWERLINES

Voltage: 115 Range: Yes Hi voltage: 161

70-138 kV Volt cat:

Alternating current Type:

Status: Active Single line Corridor:

American Electric Power Owner:

Owner id: **AMELECCO** Num owners: Single Owner

Operator: Public Service Co. of Oklahoma

Operator id: **PSO**

Not Reported Last owner: Not Reported Last own id: Last oper: Not Reported Last oper id: Not Reported

Mileage: 2.0479541800000001

24455

POWERLINES

Voltage: 115 Range: Yes Hi voltage: 161 70-138 kV Volt cat:

Alternating current Type:

EDR ID Database

Status: Active Corridor: Single line

Owner: American Electric Power

Owner id: AMELECCO Num owners: Single Owner

Operator: Public Service Co. of Oklahoma

Operator id: PSO

Last owner:
Last own id:
Not Reported
Not Reported
Not Reported
Not Reported
Not Reported
Not Reported

Mileage: 4.2382604199999996

82116 POWERLINES

Voltage: 115
Range: Yes
Hi voltage: 161
Volt cat: 70-138 kV
Type: Alternating current

Status: Active Corridor: Single line

Owner: American Electric Power

Owner id: AMELECCO Num owners: Single Owner

Operator: Public Service Co. of Oklahoma

Operator id: PSO

Last owner:
Last own id:
Not Reported
Not Reported
Last oper:
Not Reported
Not Reported
Not Reported

Mileage: .67204741999999995

109239 POWERLINES

Voltage: 115
Range: Yes
Hi voltage: 161
Volt cat: 70-138 kV
Type: Alternating current

Status: Active
Corridor: Multiple lines
Owner: Not Reported
Owner id: Not Reported
Num owners: Single Owner
Operator: Not Reported
Not Reported
Not Reported
Not Reported
Not Reported
Not Reported

EDR ID Database

Last owner: Not Reported Not Reported Last own id: Last oper: Not Reported Not Reported Last oper id: Mileage: .49065632999999997

24612

POWERLINES

Voltage: 115 Range: Yes Hi voltage: 161 Volt cat: 70-138 kV Type: Alternating current

Status: Active

Multiple lines Corridor:

Owner: American Electric Power

Owner id: **AMELECCO** Num owners: Single Owner

Operator: Public Service Co. of Oklahoma

Operator id:

Last owner: Not Reported Last own id: Not Reported Not Reported Last oper: Last oper id: Not Reported

.49065632999999997 Mileage:

24611

POWERLINES

Voltage: 115 Range: Yes Hi voltage: 161 Volt cat: 70-138 kV

Type: Alternating current

Status: Active Corridor: Single line

Owner: American Electric Power

Owner id: **AMELECCO** Num owners: Single Owner

Public Service Co. of Oklahoma Operator:

Operator id: **PSO**

Last owner: Not Reported Last own id: Not Reported Not Reported Last oper: Last oper id: Not Reported

Mileage: .64927343999999998

EDR ID Database

82440

POWERLINES

Voltage:

Range: Not Reported

Hi voltage:

Volt cat: 0-69 kV

Type: Alternating current

Status: Active Single line Corridor: Owner: Not Reported Not Reported Single Owner Owner id: Num owners: Not Reported Operator: Operator id: Not Reported Last owner: Not Reported Not Reported Last own id: Last oper: Not Reported Last oper id: Not Reported .06140723 Mileage:

82115

POWERLINES

Voltage: 115 Range: Yes Hi voltage: 161 70-138 kV Volt cat:

Type: Alternating current

Status: Active Single line Corridor: Not Reported Owner: Not Reported Owner id: Single Owner Num owners: Operator: Not Reported Not Reported Operator id: Not Reported Last owner: Last own id: Not Reported Last oper: Not Reported Last oper id: Not Reported Mileage: 1.16594577

> 107146 **POWERLINES**

Voltage:

Not Reported Range:

Hi voltage: 0 Volt cat: 0-69 kV

Alternating current Type:

EDR ID Database

Status: Active Single line Corridor: Not Reported Owner: Not Reported Owner id: Num owners: Single Owner Operator: Not Reported Operator id: Not Reported Not Reported Last owner: Not Reported Last own id: Not Reported Last oper: Last oper id: Not Reported

Mileage: 2.0583403499999999

107145 POWERLINES

Voltage: 0

Range: Not Reported

Hi voltage: 0 Volt cat: 0-69 kV

Type: Alternating current

Status: Active Corridor: Single line Not Reported Owner: Not Reported Owner id: Single Owner Num owners: Not Reported Operator: Operator id: Not Reported Last owner: Not Reported Not Reported Last own id: Not Reported Last oper: Last oper id: Not Reported

Mileage: .58071647000000004

82441 POWERLINES

Voltage: 0

Range: Not Reported

Hi voltage: 0 Volt cat: 0-69 kV

Type: Alternating current

Status: Active
Corridor: Single line
Owner: Not Reported
Owner id: Not Reported
Num owners: Single Owner
Operator: Not Reported
Operator id: Not Reported
Not Reported
Operator id: Not Reported

EDR ID Database

Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported

Mileage: .53977085000000002

38221

POWERLINES

Voltage: 115
Range: Yes
Hi voltage: 161
Volt cat: 70-138 kV

Type: Alternating current

Status: Active Corridor: Single line Not Reported Owner: Not Reported Owner id: Num owners: Single Owner Not Reported Not Reported Operator: Operator id: Last owner: Not Reported Last own id: Not Reported Last oper: Not Reported Not Reported Last oper id:

Mileage: .09476112999999999

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Various Federal laws and executive orders address specific environmental concerns. NEPA requires the responsible offices to integrate to the greatest practical extent the applicable procedures required by these laws and executive orders. EDR provides key contacts at agencies charged with implementing these laws and executive orders to supplement the information contained in this report.

NATURAL AREAS Wilderness Areas

Government Records Searched in This Report

FED LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife

Service.

- National Parks

- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

US NWP: National Wilderness Preservation System

This map layer consists of National Wilderness Preservation System areas of 320 acres or more, in the United States, Puerto Rico, and the U.S. Virgin Islands. Some established wilderness areas which are larger than 320 acres are not included in this map layer because their boundaries were not available from the owning or administering agency.

Source: U.S. Geological Survey. Telephone: 888-275-8747

Federal Contacts for Additional Information

National Park Service, Intermountain Region 12795 Alameda Parkway Denver CO 80225 303-969-2500

USDA Forest Service, Southern 1720 Peachtree Road, N.W. Atlanta GA 30367 404-347-2384

BLM- New Mexico State Office 1474 Rodeo Road Santa Fe NM 87502-0115 505-438-7400

Fish & Wildlife Service, Fish & Wildlife Region 2 P.O. Box 1306 500 Gold Ave., S.W. Albuquerque NM 87103 505-248-6925

Wildlife Preserves, Sanctuaries and Refuges

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife

Service.

- National Parks

- Forests

- Monuments

- Wildlife Sanctuaries, Preserves, Refuges

- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

OK Protected Areas: Protected Areas

The Protected Areas Database of Oklahoma (PAD-OK) is managed by the Oklahoma Biological Survey and is designed for inclusion into the Protected Areas Database of The US, managed by USGS GAP. It illustrates and describes public land ownership, management, and other conservation lands, including voluntarily provided privately protected areas.

Source: Oklahoma Biological Survey.

Telephone: 405-325-4034

US Scenic River: National Wild and Scenic River System

National Wild and Scenic Rivers System

Source: USGS National Atlas and the Interagency Wild and Scenic River Coordinating Council.

Telephone: 509-546-8333

US Proclamation Boundaries: US Proclamation Boundaries

Approved, Proclamation or Extent Boundary

Source: USGS.

Telephone: 208-301-8288

US Critical Water Habitat: US Critical Water Habitat

When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act.

Source: US Fish & Wildlife Services.

Telephone: 970-226-9468

US ACEC: Areas of Critical Environmental Concern Designated Polygons

The designated ACECs are "areas within the public lands where special management attention is required to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources or other natural systems of processes, or to protect life and safety from natural hazards

Source: Bureau of Land Management.

Telephone: 202-912-7352

US NCED: National Conservation Easement Database

NCED shows a comprehensive picture of privately owned conservation easement lands in the U.S. The NCED will allow better strategic planning for conservation and development by merging data on land protection with biodiversity and resources, improving ecological and economic plans and investments.

Source: U.S Endowment for Forestry and Communities.

Telephone: 202-621-1647

US Critical Land Habitat: US Critical Land Habitat

When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act.

Source: US Fish & Wildlife Services.

Telephone: 970-226-9468

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 2 P.O. Box 1306 500 Gold Ave., S.W. Albuquerque NM 87103 505-248-6925

State Contacts for Additional Information

Dept. of Wildlife Conservation 405-521-3851

Wild and scenic rivers

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife

Service.

- National Parks

- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 2 P.O. Box 1306 500 Gold Ave., S.W. Albuquerque NM 87103 505-248-6925

Endangered Species

Government Records Searched in This Report

OK Endangered Species by County: Federal and State Endangered and Threatened Species by County

Federal and State Endangered and Threatened Species by County.

Source: Oklahoma Natural Heritage Inventory.

Telephone: 405-325-1985

Federal Endangered Species by County: Threatened and Endangered Species Listing

Endangered, Threatened, Emergency Listing (Endangered), Emergency Listing (Threatened), Experimental Population (Essential),

Experimental Population (Non-Essential), Similarity of Appearance (Endangered), Similarity of Appearance (Threatened).

Source: US Fish and Wildlife Services.

Telephone: 800-344-9453

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 2 P.O. Box 1306 500 Gold Ave., S.W. Albuquerque NM 87103 505-248-6925

State Contacts for Additional Information

Natural Heritage Inventory, Oklahoma Biological Survey 405-325-1985

LANDMARKS, HISTORICAL, AND ARCHEOLOGICAL SITES Historic Places

Government Records Searched in This Report

National Register of Historic Places:

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. These contribute to an understanding of the historical and cultural foundations of the nation. The National Register includes:

- All prehistoric and historic units of the National Park System;

- National Historic Landmarks, which are properties recognized by the Secretary of the Interior as possessing national significance; and

- Properties significant in American, state, or local prehistory and history that have been nominated by State Historic Preservation Officers, federal agencies, and others, and have been approved for listing by the National Park Service.

Date of Government Version: 07/19/2015

OK Historic Sites: Oklahomas State Register Of Historic Places

Listing of historic sites on the State Register.

Source: Oklahoma Historical Society. State Historic Preservation Office

Telephone: 405-522-4478

Potomac Heritage National Scenic Trail: Potomac Heritage National Scenic Trail

Source: Potomac Heritage NST Office.

Telephone: 304-535-4014

Natchez Trace National Scenic Trail: Natchez Trace National Scenic Trail

Source: Natchez Trace Parkway.

Telephone: 800-305-7417

Indian Reservations: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to

or greater than 640 acres.

Source: USGS.

Telephone: 202-208-3710

US Trails: US Trails

This dataset contains a baseline inventory and condition assessment of all non-motorized trails on U.S. Fish and Wildlife Service lands as part of the National Trails Inventory Program conducted by the US Dept.

of Transportation, Federal Highway Administration, Federal Lands Highway Division.

Source: U.S. Fish and Wildlife. Telephone: 703-358-2205

Federal Contacts for Additional Information

Park Service; Advisory Council on Historic Preservation

1849 C Street NW Washington, DC 20240 Phone: (202) 208-6843

State Contacts for Additional Information

Oklahoma Historical Society 405-521-2491

Indian Religious Sites

Government Records Searched in This Report

Indian Reservations:

This map layer portrays Indian administrated lands of the United States that have any area

equal to or greater than 640 acres.

Source: USGS Phone: 888-275-8747

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Department of the Interior- Bureau of Indian Affairs Office of Public Affairs 1849 C Street, NW Washington, DC 20240-0001

Office: 202-208-3711 Fax: 202-501-1516

National Association of Tribal Historic Preservation Officers

1411 K Street NW, Suite 700 Washington, DC 20005 Phone: 202-628-8476 Fax: 202-628-2241

State Contacts for Additional Information

A listing of local Tribal Leaders and Bureau of Indian Affairs Representatives can be found at: http://www.doi.gov/bia/areas/agency.html

Muskogee Area Office, Bureau of Indian Affairs Old Federal Building Muskogee OK 74401 918-687-2296

Anadarko Area Office, Bureau of Indian Affairs WCD Office Complex P.O. Box 368 Anadarko OK 73005 405-247-6673

FLOOD PLAIN, WETLANDS AND COASTAL ZONE

Flood Plain Management

Government Records Searched in This Report

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts Special Flood Hazard Areas (1%) and 0.2% Annual Chance of Flood Hazard as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA Phone: 877-336-2627

Date of Government Version: 2015, 2003

Federal Contacts for Additional Information Federal Emergency Management Agency

877-3362-627

State Contacts for Additional Information

Dept. of Civil Emergency Management 405-521-2481

Wetlands Protection

Government Records Searched in This Report

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010, and 2015 from the U.S. Fish and Wildlife Service.

Source: U.S. Fish and Wildlife Service.

Phone: 608-238-9333

Date of Government Version: 05/28/2015

Federal Contacts for Additional Information

Fish & Wildlife Service 813-570-5412

State Contacts for Additional Information

Dept. of Wildlife Conservation 405-521-3851

Coastal Zone Management

Government Records Searched in This Report

CAMA Management Areas Dept. of Env., Health & Natural Resources 919-733-2293

Federal Contacts for Additional Information

Office of Ocean and Coastal Resource Management N/ORM, SSMC4
1305 East-West Highway
Silver Spring, Maryland 20910
301-713-3102

State Contacts for Additional Information

FCC & FAA SITES MAP

For NEPA actions that come under the authority of the FCC, the FCC requires evaluation of Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

Government Records Searched in This Report

Cellular

Federal Communications Commission 445 12th Street, SW Washington, DC 20554 888-225-5322

Antenna Structure Registration

Federal Communications Commission 445 12th Street, SW Washington, DC 20554 888-225-5322

AM Antenna

Federal Communications Commission 445 12th Street, SW Washington, DC 20554 888-225-5322

FM Antenna

Federal Communications Commission 445 12th Street, SW Washington, DC 20554 888-225-5322

FAA Digital Obstacle File

Federal Aviation Administration (FAA) 1305 East-West Highway, Station 5631 Silver Sprinng, MD 20910-3281 Telephone: 301-713-2817

Describes known obstacles of interest to aviation users in the US. Used by the Federal Aviation Administration (FAA) and the National Oceanic and Atmospheric Administration to manage the National Airspace System.

Airport Landing Facilities

Federal Aviation Administration Telephone (800) 457-6656 Private and public use landing facilities.

Electric Power Transmission Line Data

PennWell Corporation

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Excessive Radio Frequency Emission

For NEPA actions that come under the authority of the FCC, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the determination of whether the particular facility, operation or transmitter would cause human exposure to levels of radio frequency in excess of certain limits.

Federal Contacts for Additional Information

Office of Engineering and Technology Federal Communications Commission 445 12th Street SW Washington, DC 20554 Phone: 202-418-2470

OTHER CONTACT SOURCES

STREET AND ADDRESS INFORMATION

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Appendix E NRCS Soil Report



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Tulsa County, Oklahoma



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map	
Legend	10
Map Unit Legend	11
Map Unit Descriptions	11
Tulsa County, Oklahoma	13
8—Choska-Severn-Urban land complex, 0 to 1 percent slopes, rarely	
flooded	13
27—Kiomatia loamy fine sand, 0 to 1 percent slopes, frequently flooded	15
References	17

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(o)

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area



Stony Spot

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Tulsa County, Oklahoma Survey Area Data: Version 17, Sep 6, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 11, 2022—Jul 11. 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
8	Choska-Severn-Urban land complex, 0 to 1 percent slopes, rarely flooded	22.9	85.0%	
27	Kiomatia loamy fine sand, 0 to 1 percent slopes, frequently flooded	4.0	15.0%	
Totals for Area of Interest		26.9	100.0%	

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

Custom Soil Resource Report

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Tulsa County, Oklahoma

8—Choska-Severn-Urban land complex, 0 to 1 percent slopes, rarely flooded

Map Unit Setting

National map unit symbol: 3l28 Elevation: 10 to 2.000 feet

Mean annual precipitation: 22 to 60 inches Mean annual air temperature: 50 to 70 degrees F

Frost-free period: 185 to 300 days

Farmland classification: Not prime farmland

Map Unit Composition

Choska and similar soils: 42 percent Severn and similar soils: 31 percent

Urban land: 22 percent *Minor components:* 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Choska

Setting

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Convex

Typical profile

A - 0 to 14 inches: very fine sandy loam C - 14 to 25 inches: very fine sandy loam

2C - 25 to 35 inches: silt loam

3C - 35 to 80 inches: stratified loamy fine sand to silt loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Rare Frequency of ponding: None

Available water supply, 0 to 60 inches: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: B

Ecological site: R112XY123KS - Loamy Terrace Forage suitability group: Unnamed (G112XY020OK) Other vegetative classification: Unnamed (G112XY020OK)

Hydric soil rating: No

Description of Severn

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Calcareous loamy and silty alluvium

Typical profile

A - 0 to 8 inches: very fine sandy loam

C - 8 to 28 inches: stratified loamy very fine sand to silty clay loam

2C - 28 to 48 inches: very fine sandy loam

3C - 48 to 80 inches: stratified loamy very fine sand to silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr

Depth to water table: More than 80 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Available water supply, 0 to 60 inches: High (about 10.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B

Ecological site: R112XY125KS - Loamy Floodplain Forage suitability group: Unnamed (G118BY034OK) Other vegetative classification: Unnamed (G118BY034OK)

Hydric soil rating: No

Description of Urban Land

Typical profile

C - 0 to 60 inches: variable

Properties and qualities

Slope: 0 to 1 percent Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high

(0.06 to 2.00 in/hr) Frequency of flooding: Rare

Available water supply, 0 to 60 inches: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: D

Forage suitability group: Unnamed (G112XY999OK)
Other vegetative classification: Unnamed (G112XY999OK)

Hydric soil rating: No

Minor Components

Latanier

Percent of map unit: 5 percent Landform: Plains on paleoterraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R112XY124KS - Wet Floodplain

Other vegetative classification: Unnamed (G118AY126OK)

Hydric soil rating: No

27—Kiomatia loamy fine sand, 0 to 1 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3l16 Elevation: 80 to 750 feet

Mean annual precipitation: 39 to 51 inches Mean annual air temperature: 58 to 64 degrees F

Frost-free period: 200 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kiomatia and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kiomatia

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Calcareous sandy alluvium

Typical profile

A - 0 to 10 inches: loamy fine sand

C - 10 to 61 inches: stratified fine sand to loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Frequent

Custom Soil Resource Report

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: B

Ecological site: R118BY068OK - Fluventic Flood Plain Forage suitability group: Unnamed (G118BY181OK) Other vegetative classification: Unnamed (G118BY181OK)

Hydric soil rating: No

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Appendix F Consultation Letters

Dr. Kary L. Stackelbeck State Archeologist Oklahoma Archeological Survey 111 East Chesapeake, Room 102 Norman, Oklahoma 73019-5111

Dear Dr. Stackelbeck:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

See Exhibit "A"

The former GCC Ready Mix facility is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, and Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

Please provide information regarding the presence of any historic or prehistoric properties at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Mr. J.D. Strong Director Oklahoma Department of Wildlife Conservation P.O. Box 53465 Oklahoma City, Oklahoma 73152

Dear Mr. Strong:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding the presence of any endangered species at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Dr. Todd Fagin Biotics Administrator Oklahoma Natural Heritage Inventory Oklahoma Biological Survey 111 East Chesapeake Street Norman, Oklahoma 73019-0575

Dear Dr. Fagin:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding the presence of any rare species and ecological studies at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Ms. Lynda Ozan, Deputy SHPO State Historic Preservation Office Oklahoma Historical Society Oklahoma History Center 800 Nazih Zuhdi Drive Oklahoma City, Oklahoma, 73105-7917

Dear Ms. Ozan:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding the presence of any historic or prehistoric properties at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Department of the Army
US Army Corps of Engineering – Tulsa District
1645 South 101st East Avenue
Tulsa, Oklahoma 74128 – 4609

To Whom It May Concern:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding any concerns or activity at this location and your recommendation regarding the need for further investigation at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Corain Lowe-Zepeda
Tribal Historic Preservation Officer
Muscogee (Creek) Nation – Cultural and Historic Preservation
P.O. Box 580
Okmulgee, Oklahoma 74447

Dear Ms. Lowe-Zepeda:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Oklahoma Department of Environmental Quality P.O. Box 1667 Oklahoma City, Oklahoma 73101 – 1677

To Whom It May Concern:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Jonna Polk
Project Leader
Tulsa Field Office
U.S. Fish and Wildlife Services
9014 East 21st Street
Tulsa, Oklahoma 74129

Dear Ms. Polk:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding the presence of any endangered species at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Ms. Sharon Parrish
Chief of Wetlands
Office of Water Quality Protection Division
US Environmental Protection Agency – Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Dear Ms. Parrish:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding the presence of any wetlands or water quality concerns at this location and your recommendation regarding the need for further investigation at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Ms. Nancy Sanchez Oklahoma Scenic Rivers Commission P.O. Box 292 Tahleguah, Oklahoma 74465-0292

Dear Ms. Sanchez:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

See Exhibit "A"

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Please provide information regarding any concerns or activity at this location and your recommendation regarding the need for further investigation at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

If you have any questions, please feel free to contact Justin Scott at (918) 665-6575 or email jscott@aandmengineering.com. An immediate response will be greatly appreciated.

Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

In fax

Ms. Gabriael Parker Natural Resources Conservation Service Tulsa Field Service Center 6660 South Sheridan Rd, Suite 120 Tulsa, Oklahoma 74133

Dear Ms. Parker:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

See Exhibit "A"

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Mr. Yohanes Sugeng, P.E., CFM State NFIP Coordinator Oklahoma Water Resource Board 3800 North Classen Boulevard Oklahoma City, Oklahoma 73118

Dear Mr. Sugeng:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Mr. Ford Drummond Chairman Oklahoma Water Resources Board 3800 Classen Boulevard Oklahoma City, Oklahoma 73118

Dear Mr. Drummond:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Mr. Joe Henderson Regional Management Officer United States Geological Survey 1700 East Pointe Drive, Suite 202 Columbia, Missouri 65201

Dear Mr. Henderson

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott
Environmental Specialist

Mr. Roger Joliff, Director Tulsa County Emergency Management Agency 600 Civic Center Tulsa, Oklahoma 74103

Dear Mr. Joliff:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Mr. F. Robert Carr, Jr., P.E. Director Jenks Public Works Department 211 North Elm Street PO Box 2007 Jenks, Oklahoma 74037

Dear Mr. Carr:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Mayor's Office of Economic Development 175 East 2nd Street Tulsa, Oklahoma 74103

To Whom It May Concern:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Ms. Mary Ann Pritchard, Director Oklahoma Department of Mines 2915 North Classen Blvd., Suite 213 Oklahoma City, Oklahoma 73106

Dear Ms. Pritchard:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Samantha Robinson Alabama-Quassarte Tribal Town PO Box 187 Wetumka, OK 74883

Dear Ms. Robinson:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Dr. Andrea A. Hunter, THPO
Osage Nation Historic Preservation Office
627 Grandview
Pawhuska, OK 74056

Dear Dr. Hunter:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Terry Clouthier, THPO Thlopthlocco Tribal Town PO Box 188 Okemah, OK 74859

Dear Mr. Clouthier:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

David Cook Kialegee Tribal Town PO Box 332 Wetumka, OK 74883

Dear Mr. Cook:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

A & M Engineering and Environmental Services, Inc.

Justin Scott

Environmental Specialist

Dr. Kary L. Stackelbeck State Archeologist Oklahoma Archeological Survey 111 East Chesapeake, Room 102 Norman, Oklahoma 73019-5111

REF: Consultation regarding the presence of any historic or prehistoric properties associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Dr. Stackelbeck:

In accordance with the United States Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Mr. J.D. Strong
Director
Oklahoma Department of Wildlife Conservation
P.O. Box 53465
Oklahoma City, Oklahoma 73152

REF: Consultation regarding the presence of any endangered species associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Mr. Strong:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Dr. Todd Fagin Biotics Administrator Oklahoma Natural Heritage Inventory Oklahoma Biological Survey 111 East Chesapeake Street Norman, Oklahoma 73019-0575

REF: Consultation regarding the presence of any rare species and ecological studies associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Dr. Fagin:

In accordance with the U.S. Army Corps of Engineers (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Lynda Ozan, Deputy SHPO State Historic Preservation Office Oklahoma Historical Society Oklahoma History Center 800 Nazih Zuhdi Drive Oklahoma City, Oklahoma, 73105-7917

REF: Consultation regarding the presence of any historic or prehistoric properties associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Ozan:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Department of the Army Unite States Army Corps of Engineering - Tulsa District 2488 East 81st Street Tulsa, Oklahoma 74137

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

To Whom It May Concern:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Corain Lowe-Zepeda
Tribal Historic Preservation Officer
Muscogee (Creek) Nation – Cultural and Historic Preservation
P.O. Box 580
Okmulgee, Oklahoma 74447

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Lowe-Zepeda:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Oklahoma Department of Environmental Quality P.O. Box 1667 Oklahoma City, Oklahoma 73101 – 1677

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

To Whom It May Concern:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Jonna Polk
Project Leader
Tulsa Field Office
U.S. Fish and Wildlife Services
9014 East 21st Street
Tulsa, Oklahoma 74129

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Polk:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Sharon Parrish
Chief of Wetlands
Office of Water Quality Protection Division
US Environmental Protection Agency – Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

REF: Consultation regarding any wetlands or water quality concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Parrish:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Nancy Sanchez Oklahoma Scenic Rivers Commission P.O. Box 292 Tahleguah, Oklahoma 74465-0292

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Sanchez:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Gabriael Parker Natural Resources Conservation Service Tulsa Field Service Center 6660 South Sheridan Rd, Suite 120 Tulsa, Oklahoma 74133

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Parker:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

Please provide information regarding any concerns or activity at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Mr. Yohanes Sugeng, P.E., CFM Engineering And Planning Division Chief Oklahoma Water Resource Board 3800 North Classen Boulevard Oklahoma City, Oklahoma 73118

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Mr. Sugeng:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Jennifer Castillo Chairman Oklahoma Water Resources Board 3800 Classen Boulevard Oklahoma City, Oklahoma 73118

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Castillo:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

Please provide information on any concerns or activity at this location at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Dianna M Hogan, Ph.D.
Deputy Regional Director, Southeast
United States Geological Survey
1770 Corporate Drive
Norcross, GA 30093

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Hogan,

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

Please provide information regarding any concerns or activity at this location at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Mr. Joseph Kralicek, Executive Director Tulsa County Emergency Management Agency 600 Civic Center Tulsa, Oklahoma 74103

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Mr. Kralicek:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Mr. F. Robert Carr, Jr., P.E. Director Jenks Public Works Department 211 North Elm Street PO Box 2007 Jenks, Oklahoma 74037

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Mr. Carr:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

Please provide information regarding any concerns or activity at this location at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Enclosure

July 28, 2023

Mayor's Office of Economic Development 175 East 2nd Street Tulsa, Oklahoma 74103

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

To Whom It May Concern:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Ms. Mary Ann Pritchard, Director Oklahoma Department of Mines 2915 North Classen Blvd., Suite 213 Oklahoma City, Oklahoma 73106

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Pritchard:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Samantha Robinson Alabama-Quassarte Tribal Town PO Box 187 Wetumka, OK 74883

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Robinson:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please provide information regarding any concerns or activity at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Dr. Andrea A. Hunter, THPO
Osage Nation Historic Preservation Office
627 Grandview
Pawhuska, OK 74056

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Dr. Hunter:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Terry Clouthier, THPO Thlopthlocco Tribal Town PO Box 188 Okemah, OK 74859

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Mr. Clouthier:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

David Cook Kialegee Tribal Town PO Box 332 Wetumka, OK 74883

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Mr. Cook:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

Please provide information regarding any concerns or activity at this location and your recommendation regarding the need for an inventory at your earliest convenience. Federal environmental review procedures require that these projects be carried out in compliance with the National Environmental Policy Act of 1969 (NEPA).

Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Michelle Barnett, P.E. Director Tulsa Brownfields Program 100 South Cincinnati Avenue, Suite 6 Tulsa, OK 74103

REF: Consultation regarding any concerns associated with the property located at 431 West 23rd Street, Tulsa, Tulsa County, Oklahoma 74104.

Dear Ms. Barnett:

In accordance with the United States Army Corps of Engineer (USACE) 408 process for requests to alter USACE Civil Works projects, the USACE will be considering activities associated with the future development of existing industrial property located adjacent to the Arkansas River. The property is described as follows:

The Mid-Continent Concrete of Oklahoma, Inc. site, owned by GCC of America, Inc., is located at 431 West 23rd Street in Tulsa, Tulsa County, Oklahoma. The property is situated in Section 14, Township 19 North, Range 12 East and consists of 26.72 acres. The historical and current industrial use of the property includes concrete batching operations, materials storage, truck parking, and full maintenance support activities. Future development activities may alter existing USACE Civil Works projects that have previously been conducted on the property.

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Please remit your response or call with questions to Joe Westervelt at (918) 607-8808, by email at jwestervelt@mapleviewassociates.com or physical address at 1630 S. Boston Avenue, Tulsa, OK 74119 at your earliest convenience.

Sincerely,

Sarah Vance
Director of Environmental
GCC of America, Inc.

Appendix G Consultation Responses



THE UNIVERSITY OF OKLAHOMA

September 20, 2019

Tanner Consulting, LLC Attn: Candice Ledbetter 5323 South Lewis Avenue Tulsa, OK 74105-6539

Re:

OAS FY19-3344 Proposed Demolition of an Existing Building and Redevelopment into a

Retail Shopping Center.

Legal Description: NE ¼ Section 14, T19N, R12E, Tulsa County, Oklahoma.

Dear Ms. Ledbetter:

The Community Assistance Program staff of the Oklahoma Archeological Survey has reviewed the above referenced project in order to identify areas that may potentially contain prehistoric or historic archeological materials (historic properties). The location of your project has been crosschecked with the state site files containing approximately 26,000 archaeological sites, which are currently recorded for the state of Oklahoma. No Sites are listed as occurring within your project area, and based on the topographic and hydrologic setting, no archaeological materials are likely to be encountered. Thus, an archaeological field inspection is not considered necessary. Please contact this office at (405) 325-7211 if buried archaeological materials such as chipped stone tools, pottery, bone, historic crockery, glass, metal items or building materials are exposed during construction activities.

Should this project, in part or in whole, be considered subject to compliance with Section 106 of the National Historic Preservation Act, the comments included in this letter will warrant reconsideration based on consultation with other relevant parties, such as the Oklahoma State Historic Preservation Office and/or Tribal Historic Preservation Offices, as appropriate.

Sincerely,

Harmony C. Cole Staff Archaeologist

: dkg cc: SHPO

State Archaeologist

MARY ANN PRITCHARD DIRECTOR



J. KEVIN STITT GOVERNOR

October 18, 2019

Justin Scott
A&M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, OK 74128-4813

Re: NEPA Compliance for Former GCC Ready Mix Facility 431 West 23rd St, Tulsa, OK 74107 NE ¹/₄ NE ¹/₄ Section 14, T19N, R12E Tulsa County, Oklahoma

Dear Mr. Scott:

The Oklahoma Department of Mines (ODM) received your request for information on October 15, 2019 regarding the subject area (NE ¼ NE ¼ Section 14, T19N, R12E, Tulsa County) and surrounding of the former GCC Ready Mix facility. After researching our current and historical data file, ODM did not find any coal permits, any current non-coal permits, or any other surface reclamation efforts on record that might affect your project.

If you need additional information, please contact Mike Kelley at (405) 522-9851.

Sincerely,

Tekleab Tsegay

ODM Chief, Technical Services

From: <u>Aaron Milligan</u>
To: <u>Justin Scott</u>

Subject: GCC Ready Mix facility

Date: Thursday, October 17, 2019 12:43:03 PM

Justin,

I received your letter of October 9 requesting comments related to development at 431 W. 23rd St. in Tulsa. This property does not appear to be in the 100-year floodplain but it is very close to areas that are in the floodplain and floodway. I recommend you consult with the City of Tulsa Floodplain Administrator, Michael Ling, as they may have some specific requirements for this area.

Best regards,

Aaron Milligan, CFM, RPES

Floodplain Management
Planning & Management Division
OKLAHOMA WATER RESOURCES BOARD
3800 N Classen Blvd, Oklahoma City, OK 73118
405.530.8800 • www.owrb.ok.gov • @OKWaterBoard



From: <u>Community Assistance</u>

To: <u>Justin Scott</u>

Subject: Future Development Project- Tulsa County
Date: Tuesday, October 15, 2019 9:03:29 AM

Good Morning,

The Oklahoma Archeological Survey received your project for future development activities at 431 West 23rd Street in Tulsa. Our office had a few questions before we can complete a review. What types of development will be occurring? Do you know what type of ground disturbance will take place as part of this development? Will there be any expansion outside of the indicated area?

Also, you letter did not include a return address. Can you please provide an address where we can send our final recommendation?

If you have any questions, please feel free to contact our office.

Thank You, Alexandra Flores

Staff Archaeologist

Oklahoma Archeological Survey 111 E. Chesapeake Street, Norman, Oklahoma 73019-5111

Phone: (405) 325-7211 Fax: (405) 325-7604

http://www.ou.edu/archsurvev

OBS Ref. 2019-541-BUS-AME

Dear Mr. Scott, Oct. 14, 2019

We have reviewed occurrence information on federal and state threatened, endangered or candidate species, as well as non-regulatory rare species and ecological systems of importance currently in the Oklahoma Natural Heritage Inventory database for the following location you provided:

Sec. 14-T19N-R12E, Tulsa County

We found 12 occurrence(s) of relevant species within the vicinity of the project location as described.

Species Name	Common Name	Federal Status
Nicrophorus americanus	American burying beetle	Endangered
County	TRS	Count
Tulsa	Sec. 11-T19N-R12E	1
Tulsa	Sec. 13-T19N-R12E	1
Tulsa	Sec. 25-T19N-R12E	1
Tulsa	Sec. 36-T19N-R12E	1
Haliaeetus leucocephalus	Bald Eagle	Protected
County	TRS	Count
Tulsa	Sec. 7-T19N-R12E	2
Tulsa	Sec. 8-T19N-R12E	1
Tulsa	Sec. 9-T19N-R12E	2
Tulsa	Sec. 14-T19N-R12E	1
Tulsa	Sec. 25-T19N-R12E	1
Tulsa	Sec. 26-T19N-R12E	1

Additionally, absence from our database does not preclude such species from occurring in the area.

If you have any questions about this response, please send me an email, or call us at the number given below.

Although not specific to your project, you may find the following links helpful.

ONHI, guide to ranking codes for endangered and threatened species: http://vmpincel.ou.edu/heritage/ranking_guide.html

Information regarding the Oklahoma Natural Areas Registry: http://www.oknaturalheritage.ou.edu/registry fag.htm

Todd Fagin Oklahoma Natural Heritage Inventory (405) 325-4700 tfagin@ou.edu
 From:
 Barnett. Michelle

 To:
 Justin Scott

 Subject:
 GCC Ready-Mix site

Date: Friday, October 11, 2019 4:34:39 PM

Attachments: Text of PhaseII Rpt RiverWestFestPark Mar2008.pdf

Got your letter. Attached is the Phase II from the adjacent property showing that the landfill likely extends under the GCC facility. The entire report is 100M, so let me know if you need the full document. Curious what its proposed re-use is?

Michelle Barnett, PE

Deputy Chief of Economic Development

Mayor's Office of Economic Development 175 E. 2nd Street, Suite 15-040, Tulsa, OK 74103

P: 918-596-7457 C: 918-606-4728

www.cityoftulsa.org/economicdevelopment

From: <u>Joseph Westervelt</u>
To: <u>Ashton Roberts</u>

Cc: <u>Justin Scott</u>; <u>Jeff Elbert</u>; <u>Dan E. Tanner</u>

Subject: Fwd: Consultation Regarding Any Concerns Associated with the Property Located at 431 West 23rd Street, Tulsa,

Tulsa County, Oklahoma 74104

Date: Wednesday, August 2, 2023 4:31:25 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe

Here is the first letter back.. apparently the author did not understand what the letter was for.....I assume I do not need a re-write, it is the proper address.

Joe Westervelt jwestervelt@mapleviewassociates.com 918-607-8808

Begin forwarded message:

From: Chris Cloyde < CCloyde@jenksok.org>

Subject: Consultation Regarding Any Concerns Associated with the

Property Located at 431 West 23rd Street, Tulsa, Tulsa County,

Oklahoma 74104

Date: August 2, 2023 at 4:04:39 PM CDT **To:** "jwestervelt@mapleviewassociates.com" <jwestervelt@mapleviewassociates.com> **Cc:** Robert Carr <rcarr@jenksok.org>

Joe,

The City of Jenks received a letter requesting any concerns related to the Zink Lake Dam located at 431 West 23rdStreet in Tulsa, Oklahoma. The City of Jenks has reviewed the letter and has no concerns with this project.

Regards,

Chris Cloyde, PE, CFM | City Engineer

City of Jenks (918) 556-7479 direct ccloyde@jenksok.org



THE UNIVERSITY OF OKLAHOMA

August 28, 2023

Mapleview Associates Attn: Joe Westervelt 1630 S. Boston Avenue Tulsa, OK 74119

Re:

OAS FY23-2296 USACE – GCC of America, Inc., Proposed Entertainment Venue with Associated Parking at the Former Mid-Continent Concrete Facility: 431 West 23rd Street, Tulsa. Legal Description: NW ¼ NE ¼ NE ¼ Section 14, T19N, R12E, Tulsa County, Oklahoma.

Dear Mr. Westervelt:

The Community Assistance Program staff of the Oklahoma Archeological Survey has reviewed the above referenced project to identify areas that may potentially contain prehistoric or historic archeological materials (historic properties). The location of your project has been crosschecked with the state site files containing approximately 27,000 archaeological sites, which are currently recorded for the state of Oklahoma. No sites are listed as occurring within your project area, and based on the topographic and hydrologic setting, no archaeological materials are likely to be encountered. Thus, an archaeological field inspection is not considered necessary. Please contact this office at (405) 325-7211 if buried archaeological materials such as chipped stone tools, pottery, bone, historic crockery, glass, metal items or building materials are exposed during construction activities.

This environmental review and evaluation are done in cooperation with the State Historic Preservation Office, Oklahoma Historical Society. The responsible federal agency or their official delegate must also have a letter from that office to document consultation pursuant to Section 106 of the National Historic Preservation Act.

In addition to our review comments, under 36CFR Part 800.3 you are reminded of your responsibility to consult with the appropriate Native American tribe/groups to identify any concerns they may have pertaining to this undertaking and potential impacts to properties of traditional and/or ceremonial value.

Sincerely,

Far: Daniel Lestarjette
Staff Archaeologist

Kary L.
Staff Archaeologist

: dkg cc: SHPO Kary L. Stackelbeck, Ph.D. State Archaeologist

From: Community Assistance < oascap@ou.edu>

Date: August 3, 2023 at 8:21:37 AM CDT

To: Joseph Westervelt < <u>jwestervelt@mapleviewassociates.com</u>>

Subject: Additional information needed for 431 W. 23rd St., Tulsa, OK undertaking

Hi Joe, we received the attached initial submission for an industrial property located at 431 W. 23rd St. in Tulsa, OK. Before we can review this submission, could you please provided the following additional information?

- 1. Aerial map with the area of potential effect clearly indicated; and,
- 2. A description of the proposed development to be undertaken

Please email it to oascap@ou.edu (or simply reply to this message). Once we receive this additional information, we will review your project and make a determination within thirty (30) days via U.S. Mail.

Thanks for your assistance—I appreciate it.

--

Daniel Lestarjette, MA, RPA (RPA ID No. 5687) Staff Archaeologist Oklahoma Archeological Survey Community Assistance Program 111 E. Chesapeake St. Norman, OK 73019-5111

Phone: 405-325-7211 Fax: 405-325-7604

http://www.ou.edu/archsurvey



THE UNIVERSITY OF OKLAHOMA

August 28, 2023

Mapleview Associates Attn: Joe Westervelt 1630 S. Boston Avenue Tulsa, OK 74119

Re:

OAS FY23-2296 USACE – GCC of America, Inc., Proposed Entertainment Venue with Associated Parking at the Former Mid-Continent Concrete Facility: 431 West 23rd Street, Tulsa. Legal Description: NW ¼ NE ¼ NE ¼ Section 14, T19N, R12E, Tulsa County, Oklahoma.

Dear Mr. Westervelt:

The Community Assistance Program staff of the Oklahoma Archeological Survey has reviewed the above referenced project to identify areas that may potentially contain prehistoric or historic archeological materials (historic properties). The location of your project has been crosschecked with the state site files containing approximately 27,000 archaeological sites, which are currently recorded for the state of Oklahoma. No sites are listed as occurring within your project area, and based on the topographic and hydrologic setting, no archaeological materials are likely to be encountered. Thus, an archaeological field inspection is not considered necessary. Please contact this office at (405) 325-7211 if buried archaeological materials such as chipped stone tools, pottery, bone, historic crockery, glass, metal items or building materials are exposed during construction activities.

This environmental review and evaluation are done in cooperation with the State Historic Preservation Office, Oklahoma Historical Society. The responsible federal agency or their official delegate must also have a letter from that office to document consultation pursuant to Section 106 of the National Historic Preservation Act.

In addition to our review comments, under 36CFR Part 800.3 you are reminded of your responsibility to consult with the appropriate Native American tribe/groups to identify any concerns they may have pertaining to this undertaking and potential impacts to properties of traditional and/or ceremonial value.

Sincerely,

Far: Daniel Lestarjette
Staff Archaeologist

Kary L.
Staff Archaeologist

: dkg cc: SHPO Kary L. Stackelbeck, Ph.D. State Archaeologist

 From:
 Joseph Westervelt

 To:
 Justin Scott

 Cc:
 Dan E. Tanner

Subject: Fwd: Comments on Mid-Continent Concrete of Oklahoma, Inc.

Date: Monday, August 21, 2023 3:28:30 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe

Another consultation letter..

Joe Westervelt jwestervelt@mapleviewassociates.com 918-607-8808

Begin forwarded message:

From: Rawles Roberts < Rawles. Roberts @mines.ok.gov>

Subject: Comments on Mid-Continent Concrete of Oklahoma, Inc.

Date: August 21, 2023 at 1:01:27 PM CDT

To: "jwestervelt@mapleviewassociates.com" <jwestervelt@mapleviewassociates.com>

Cc: Doug Schooley <Doug.Schooley@mines.ok.gov>, Jenna Bedwell

<jenna.bedwell@mines.ok.gov>, Suzen Rodesney

<Suzen.Rodesney@mines.ok.gov>

Good afternoon,

Concerning your request for comments on the site owned by GCC of America, Inc., located in Section 14 of Township 19 North, Range 12 East, in Tulsa County:

The Department of Mines does not have any current concerns within the section given. By the Department's records, the nearest area of interest to the Department is \sim 2.3 miles west.

The Department has no comments or recommendations regarding the need for an inventory.

Thank you for contacting the Oklahoma Department of Mines.

Rawles Roberts III Technical Bonding Analyst Oklahoma Department of Mines 2915 N. Classen Blvd. Suite 213 Oklahoma City, OK 73106 Office: (405)522-9845

https://mines.ok.gov

Dear Joe Westervelt, August 8, 2023

We have reviewed occurrence information on federal and state threatened, endangered, or candidate species currently in the Oklahoma Natural Heritage Inventory database for the following location you provided:

Sec. 14-T19N-R12E, Tulsa County

We found 7 occurrences of relevant species within the vicinity of the project location as described.

Species Name	Common Name	Federal Status Protected	
Haliaeetus leucocephalus	Bald Eagle		
County	TRS	Count	
Tulsa	Sec. 1-T18N-R12E	1	
Tulsa	Sec. 7-T19N-R12E	2	
Tulsa	Sec. 8-T19N-R12E	1	
Tulsa	Sec. 9-T19N-R12E	1	
Tulsa	Sec. 14-T19N-R12E	1	
Tulsa	Sec. 26-T19N-R12E	1	

Additionally, absence from our database does not preclude such species from occurring in the area.

If you have any questions about this response, please send me an email, or call us at the number given below.

Although not specific to your project, you may find the following link helpful.

ONHI, guide to ranking codes for endangered and threatened species: http://www.oknaturalheritage.ou.edu/content/biodiversity-info/ranking-guide/

Kristin Comolli Oklahoma Natural Heritage Inventory (405) 325-4700 kcomolli@ou.edu

Appendix H US Census Information



QuickFacts Tulsa County, Oklahoma

QuickFacts provides statistics for all states and counties, and for cities and towns with a population of 5,000 or more.

Table

pulation		
opulation Estimates, July 1, 2022, (V2022)	₾ 677,358	
opulation estimates base, April 1, 2020, (V2022)	▲ 669,272	
opulation, percent change - April 1, 2020 (estimates base) to July 1, 2022, (V2022)	▲ 1.2%	
opulation, Census, April 1, 2020	669,279	
opulation, Census, April 1, 2010	603,403	
ge and Sex		
ersons under 5 years, percent	₾ 6.5%	
ersons under 18 years, percent	⚠ 24.7%	
ersons 65 years and over, percent	⚠ 15.4%	
emale persons, percent	₫ 50.8%	
ace and Hispanic Origin		
/hite alone, percent	△ 71.1%	
lack or African American alone, percent (a)	▲ 10.9%	
merican Indian and Alaska Native alone, percent (a)	▲ 7.1%	
sian alone, percent (a)	4 .0%	
ative Hawaiian and Other Pacific Islander alone, percent (a)	▲ 0.2%	
wo or More Races, percent	₾ 6.7%	
ispanic or Latino, percent (b)	⚠ 14.2%	
/hite alone, not Hispanic or Latino, percent	▲ 59.3%	
opulation Characteristics		
eterans, 2017-2021	36,225	
oreign born persons, percent, 2017-2021	8.9%	
ousing		
ousing units, July 1, 2022, (V2022)	297,854	
wner-occupied housing unit rate, 2017-2021	59.9%	
ledian value of owner-occupied housing units, 2017-2021	\$168,800	
ledian selected monthly owner costs -with a mortgage, 2017-2021	\$1,407	
ledian selected monthly owner costs -without a mortgage, 2017-2021	\$504	
ledian gross rent, 2017-2021	\$929	
uilding permits, 2022	3,530	
amilies & Living Arrangements		
ouseholds, 2017-2021	260,639	
ersons per household, 2017-2021	2.52	
iving in same house 1 year ago, percent of persons age 1 year+, 2017-2021	82.6%	
anguage other than English spoken at home, percent of persons age 5 years+, 2017-2021	15.0%	
omputer and Internet Use		
ouseholds with a computer, percent, 2017-2021	93.9%	
ouseholds with a broadband Internet subscription, percent, 2017-2021	88.5%	
ducation		
igh school graduate or higher, percent of persons age 25 years+, 2017-2021	le thie ne	
	Is this pa	

Health	Tulsa County,
With a disa	Oklahoma
Persons wi Population Estimates, July 1, 2022, (V2022)	₾ 677,358
Economy	
In civilian labor force, total, percent of population age 16 years+, 2017-2021	66.0%
In civilian labor force, female, percent of population age 16 years+, 2017-2021	60.1%
Total accommodation and food services sales, 2017 (\$1,000) (c)	2,023,415
Total health care and social assistance receipts/revenue, 2017 (\$1,000) (c)	7,176,659
Total transportation and warehousing receipts/revenue, 2017 (\$1,000) (c)	3,968,302
Total retail sales, 2017 (\$1,000) (c)	11,877,991
Total retail sales per capita, 2017 (c)	\$18,362
Transportation	
Mean travel time to work (minutes), workers age 16 years+, 2017-2021	19.9
Income & Poverty	
Median household income (in 2021 dollars), 2017-2021	\$60,382
Per capita income in past 12 months (in 2021 dollars), 2017-2021	\$35,360
Persons in poverty, percent	△ 14.7%
₩ BUSINESSES	
Businesses	
Total employer establishments, 2021	19,268
Total employment, 2021	319,207
Total annual payroll, 2021 (\$1,000)	17,167,036
Total employment, percent change, 2020-2021	-5.8%
Total nonemployer establishments, 2019	54,060
All employer firms, Reference year 2017	14,913
Men-owned employer firms, Reference year 2017	8,562
Women-owned employer firms, Reference year 2017	2,794
Minority-owned employer firms, Reference year 2017	1,962
Nonminority-owned employer firms, Reference year 2017	10,938
Veteran-owned employer firms, Reference year 2017	1,155
Nonveteran-owned employer firms, Reference year 2017	11,739
⊕ GEOGRAPHY	
Geography	
Population per square mile, 2020	1,173.7
Population per square mile, 2010	1,058.1
Land area in square miles, 2020	570.22
Land area in square miles, 2010	570.25
FIPS Code	40143



About datasets used in this table

Tulsa County,
Oklahoma

Value Notes Population Estimates, July 1, 2022, (V2022)

△ Estimates are not comparable to other geographic levels due to methodology differences that may exist between different data sources.

Some estimates presented here come from sample data, and thus have sampling errors that may render some apparent differences between geographies statistically indistinguishable.] Click the Quick Info 10 icon to the left of each row in Taleam about sampling error.

In Vintage 2022, as a result of the formal request from the state, Connecticut transitioned from eight counties to nine planning regions. For more details, please see the Vintage 2022 release notes available here: Release Notes.

The vintage year (e.g., V2022) refers to the final year of the series (2020 thru 2022). Different vintage years of estimates are not comparable.

Users should exercise caution when comparing 2017-2021 ACS 5-year estimates to other ACS estimates. For more information, please visit the 2021 5-year ACS Comparison Guidance page.

Fact Notes

- (a) Includes persons reporting only one race
- (c) Economic Census Puerto Rico data are not comparable to U.S. Economic Census data
- (b) Hispanics may be of any race, so also are included in applicable race categories

Value Flags

- Either no or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest or upper interval of an open ende
- F Fewer than 25 firms
- D Suppressed to avoid disclosure of confidential information
- N Data for this geographic area cannot be displayed because the number of sample cases is too small.
- FN Footnote on this item in place of data
- X Not applicable
- S Suppressed; does not meet publication standards
- NA Not available
- Z Value greater than zero but less than half unit of measure shown

QuickFacts data are derived from: Population Estimates, American Community Survey, Census of Population and Housing, Current Population Survey, Small Area Health Insurance Estimates, Small Area Income and Poverty Estimates, Sta Housing Unit Estimates, County Business Patterns, Nonemployer Statistics, Economic Census, Survey of Business Owners, Building Permits.

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Measuring America's People, Places, and Economy

Appendix I Best Management Practices

Link to General Permit OKR10:

https://www.deq.ok.gov/wp-content/uploads/water-division/Final-CGP-2017.pdf

Appendix J Professional Qualifications

Justin Scott

Environmental Specialist

15 Years of Experience A & M Employee (Full Time)

Education:

Tulsa Community College, Associate of Applied Science, 2002

Professional Registrations, Certifications, and Training:

Laboratory Certified for Field pH and DO Measurements

40 Hour Hazardous Waste Operator (HAZWOPER) (Current)
PEC Safeland USA Basic Orientation Trained (2013)
USEPA Accredited Asbestos Inspector
USEPA Accredited Lead-Based Paint Inspector (2008-2016)
Quantum Laboratories 3-Day Mold Investigator Training Course (2014)

Qualifications Summary:

Fifteen (15) years of professional experience including field inspections, sampling, reporting, and project management roles. Specialized in due diligence, wastewater, inspections (asbestos, lead based paint, mold), field sampling (soil, water, waste), environmental compliance, NEPA EAs, natural resources, project plans, and reporting. Proficient in the implementation of RCRA, NEPA, TSCA, EPCRA, TRI, CERCLA, AHERA, BIA, and HUD regulations.

Skills and Abilities:

Due Diligence
NEPA
Brownfields Redevelopment
ODEQ VCP
Wastewater
Multi-Media Sampling
Asbestos Inspections
Mold Inspections
Environmental Compliance
Natural Resources
Project Management and Supervision
Project Planning and Budgeting
Contracting and Cost Management
Indoor Air Quality
Tribal Governments

Highlights:

Fifteen (15) years of environmental due diligence and compliance experience with specific experience related to water, soil, indoor air quality, waste, and natural resources. Former Due Diligence Project Manager for a national engineering and consulting company; managing due-diligence related services (Phase I ESAs, PCAs, Transaction Screens and RSRAs) including staffing, business development, budgeting, planning, and other relevant aspects of the position. Current Environmental Specialist for a midsized engineering, consulting, construction, and remediation firm; performing environmental due diligence and compliance-related services focused on industrial, oil and gas (production, midstream, downstream), tribal, and governmental entities. Customer service manager for tribal government clients.

Professional Experience Summary:

Environmental Specialist (A & M) - Responsible for project field work, report writing, proposal preparation, and tribal government client relations. Provider of environmental due diligence and compliance services including those associated with the RCRA, TSCA, EPCRA, TRI, CERCLA, AHERA, NEPA, NESHAP, Brownfields, natural resources, BIA, HUD, and OSHA. Serving multiple industry sectors including general industry, landfills, oil and gas, automotive, aerospace, construction, aggregates, mining, governmental agencies, and tribal governments. Sampled and delineated soil and groundwater impacts related to an illicit landfill for the Choctaw Nation of Oklahoma. Completed a Phase I ESA on a 5,500-acre ranch with extensive oil and gas production for the Muscogee (Creek) Nation. Assisted with full service permitting/planning for a five (5) million-barrel bulk oil storage terminal. Prepared subsurface investigations for properties impacted by historical USTs and coal mining activities. Surveyed Cross Timbers woodlands to ensure protection of wetlands, migratory birds, and raptors prior to construction and clearing projects. Provided asbestos inspections for HUD public housing projects. Assisted the Osage Nation with the investigation and remediation of a 40-acre former railyard slated for redevelopment with tribal services.

Due Diligence Project Manager/Environmental Specialist - Provided due diligence project expertise for financial firms, legal firms, private industries, governmental agencies, and tribal entities. Performed third-party review and recommendations of due diligence reports for national banking firms. Asbestos inspector and lead-based paint inspector for various sectors including EPA Superfund sites, Brownfields redevelopment projects, Army National Guard facilities, and general industry. Developed and implemented a due diligence and limited compliance investigation program for large oil and gas transfers throughout Oklahoma, Wyoming, Texas, and Colorado. Performed property condition assessments for warehouse, retail, and multi-family residential properties. Performed mold and moisture intrusion investigations for multi-family housing, governmental, and commercial facilities. Collected groundwater samples at multiple ORBCA sites for the Oklahoma Corporation Commission. Collected monthly, quarterly, and annual wastewater samples as required from multiple industrial sites throughout northeast Oklahoma. As Project Manager, performed project work, business development, group development, coaching, accounting, staffing, budgeting, planning, and overall management of environmental due diligence professionals.

Specific Project Experience:

- Ardagh Sampled for legionella in cooling towers and domestic water sources for industrial glass plant.
- Ardagh Conducted comprehensive lead-based paint survey for industrial glass plant.
- Bank of America Prepared Phase I ESAs for commercial, industrial, retail, and multi-family residential properties throughout the United States.
- Bank of America Performed third-party reviews of existing due diligence reports and provided recommendations.
- City of Tulsa Phase I and Phase II ESA for 1200-acre property intended for automotive manufacturing.
- City of Tulsa Asbestos surveys for redevelopment of parks and recreation facilities citywide.
- Choctaw Nation Performed Phase I and Phase II ESAs for properties ranging from one (1) to 500 acres.
- Choctaw Nation Prepared NEPA EAs for multiple properties prior to development.
- Eagle Concrete Prepared Industrial SWP3s for multiple facilities located in eastern Oklahoma.
- General Industry Prepared multiple industrial stormwater plans for various clients.
- **Keyera** Prepared Industrial SWP3, Facility Security Plan, and employee security training for bulk oil storage terminal.
- Keyera Performed WOSA, T&E species, and migratory bird surveys prior to construction/clearing.
- Muscogee Nation Performed NEPA EAs and Phase I ESAs for multiple properties ranging from one (1) to 5,500 acres.
- National Oilwell Varco Performed stormwater and impaired waterway sampling for an oilfield services facility.
- **ONEOK** Performed pre-construction pipeline walks to assess potential wetlands and environmental concerns.
- ONEOK Performed Phase I ESAs for five (5) natural gas compressor stations in North Dakota.
- Osage Nation Performed field work and reporting for multiple due diligence (Phase I & II ESA) projects.
- Real Alloy Weekly and monthly assessments of leachate drain and pump system related to capped industrial landfill.
- T & L Foundry Performed lockout/tagout assessment of foundry equipment.
- USEPA Provided pre-demolition NESHAP asbestos surveys for 300 structures at a Superfund site in Picher, Oklahoma.
- USEPA Prepared construction stormwater plans related to lead remediation project in SE Missouri.
- USEPA Tested for lead in soil to identify remediation sites in Miami and Quapaw, Oklahoma.

Jeff Elbert

Vice President of Professional Services

30 Years of Experience A & M Employee

Education:

Northeastern State University, Bachelor of Science - Environmental Management, 1993

Professional Registrations, Certifications, and Training:

40 Hour Hazardous Waste Operator (HAZWOPER)/Supervisor (Current)

USEPA Construction Stormwater Qualified Inspector (2022)

PEC Safeland USA Basic Orientation Trained (2013)

USEPA Trained Construction Project Storm Water Inspector (2015)

RCRA Hazardous Waste Manager Certified (2016)

Smith System Driver Certified (2014)

Dominance, Influence, Steadiness, and Compliance Trained (2015)

USEPA Accredited Asbestos Inspector (1995-2013)

USEPA Accredited Asbestos Management Planner (1998-2013)

Qualifications Summary:

Thirty (30) years of professional experience including project management, leadership, and management roles. Experienced in environmental, health, and safety compliance, due diligence, asbestos, construction, and remediation for multiple industries within many states throughout the southern and mid-western united states. Proficient in the implementation of CAA, CWA, RCRA, TSCA, EPCRA, TRI, CERCLA, NEPA, FERC, AHERA, DOM, OSHA, and USACE regulations.

Skills and Abilities:

Business Management
Project Management and Supervision
Business Development
Strategic Planning and Budgeting
Program Development and Implementation
Contracting and Cost Management
Employee Resource Management
Environmental, Health, Safety Compliance
Permitting
Due Diligence
Natural Resources
Construction and Remediation

Inspections and Management Training Coaching and Mentoring Sampling Programs and QA/QC

VCP Programs and Brownfields

Compliance Evaluations and Audits

Highlights:

Thirty (30) years of professional experience with specific qualifications related to air, water, soil, waste, natural resources, mining, training, health, and safety including implementation of multiple regulations (CAA, CWA, RCRA, TSCA, EPCRA, TRI, CERCLA, NEPA, FERC, AHERA, DOM, OSHA, and USACE). Former Local and National Compliance Services Lead for a large engineering and consulting company; managing compliance related services (air, water, land, and waste) including staffing, business development, budgeting, planning, and other relevant aspects of the position. Former Environmental Specialist IV, SPCC Subject Matter Expert, and FERC Advisor for a midstream company, providing full-service compliance for natural gas compressor stations, pipelines, and projects located across Tennessee, Kentucky, Indiana, Illinois, Wisconsin, and Minnesota. Proud to provide continued assistance for a local foundry maintaining active certification in the ODOL Safety Health Achievement Recognition Program (SHASRP). Consultant of choice for the City of Tulsa, Oklahoma since 2019. Knowledgeable and experienced in conducting remedial efforts under the ODEQ Voluntary Cleanup Program (VCP) and brownfields redevelopment program. Currently the VP of Professional Services for A & M providing overall management of our professional services division.

VP of Professional Services (A & M) - Manager of A & M's professional services division, comprised of approximately eighteen (18) professionals. Providing diverse services including compliance (environmental, health, safety, and similar), due diligence (Phase I and II ESAs), brownfields, industrial hygiene, remediation (soil and groundwater), and technical (engineering, design, hydrology, and similar). Serving multiple industry sectors including general industry, foundries, oil/gas, automotive, aerospace, construction, aggregates, mining, governmental agencies, and tribal entities. Responsible for the overall management and success of the division, project work, business development, group development, coaching, staffing, budgeting, planning, and staff coordination/utilization. Provider of compliance services including those associated with the CAA, CWA, RCRA, TSCA, EPCRA, TRI, CERCLA, NEPA, DOM, USACE, natural resources, and OSHA. Specializing in full service environmental, health, and safety compliance services including due diligence, applicability determinations, permitting, planning, training, and reporting in multiple states.

Jeff Elbert Resume Page 2 of 2

Environmental Specialist IV - Provided compliance services for natural gas compressor stations and pipelines located throughout Tennessee, Kentucky, Indiana, Illinois, Wisconsin, and Minnesota. Compliance services included those associated primarily with the CAA, CWA, FERC, USACE, Threatened and Endangered Species Act, Migratory Bird Treaty Act, RCRA, and TSCA (PCB). Developed and implemented PCB related plans and procedures for natural gas pipeline. Routinely interpreted and implemented the FERC Upland Erosion Control Plan and FERC Wetland Procedures. Conducted environmental compliance evaluations. Participated in corporate initiatives and served as the corporate SPCC Subject Matter Expert and FERC Advisor. Developed and implemented corporate wide SPCC Plan and Waste Management Plan formats. Served as a corporate spill response and reporting procedure development team member. Managed a 20-acre wetland mitigation site located in Wisconsin in association with former pipeline construction in the area.

Compliance Services Lead - Performed project work, business development, group development, coaching, accounting, staffing, budgeting, planning, and overall management of environmental compliance professionals and engineers as the Local and National Compliance Services Lead. Provided environmental and safety compliance services (applications, reports, programs, etc.) in association with most environmental and safety regulatory standards. Conducted environmental compliance evaluations and audits for general industry and oil and gas production facilities.

Project Manager - Provided due diligence and brownfield redevelopment project expertise for private industries, governmental agencies, and tribal entities. Developed applications, programs, and reports in association with several environmental and safety regulatory requirements. Asbestos inspector and management planner for various sectors including a large Air Force base and several abandoned school buildings. Corporate Health and Safety Officer responsible for the development and implementation of the company's health and safety programs. Managed the installation of a remedial interceptor trench at a petroleum refinery and several decommissioning projects at natural gas compressor stations (including compressor blowdown ponds) located

Specific Project Experience:

- National Oilwell Varco Industrial stormwater (SWP3), spill prevention (SPCC), and air quality services including permitting, planning, and reporting for multiple facilities in Oklahoma, Texas, North Dakota, Wyoming, and Minnesota.
- Sherwood Companies Annual environmental reporting services for multiple facilities in Oklahoma and Kansas.
- Osage Nation Due diligence and sampling services for multiple projects in Osage County, Oklahoma including the Osage Ranch Remediation Project comprised of 43,000 acres.
- ONEOK Performed environmental compliance evaluations for eighteen (18) compressor stations located in six (6) states
- City of Tulsa Several brownfields redevelopment projects (Phase I ESAs, Phase II ESAs, UST Removal) in Tulsa, Oklahoma. Emergency remedial efforts and construction SWP3 for a flood breached historical landfill along Bird Creek in Tulsa, Oklahoma.
- I Tulsa Large scale soil remediation project that achieved certification of remediation via the ODEQ VCP.
- **Keyera** SPCC Plan, SPCC Inspection/Integrity Program, and FRP for a 536,504-barrel bulk oil and butane storage terminal in Oklahoma. Construction SWP3 for multiple construction projects at the terminal. SPCC Plans and SWP3s for other storage terminals in Oklahoma and Texas. SPCC/SWP3 related training and natural resources consultation.
- Blue Sky Rock Quarry Non-coal mining permit application for a 1,200-acre rock quarry in Oklahoma.
- Anchor Stone Non-coal mining permit applications for planned rock quarry expansions in Oklahoma.
- Crosby Environmental compliance evaluations for multiple facilities in Arkansas and Texas.
- Choctaw Nation Air permitting and multiple Phase I and II ESA projects in Oklahoma.
- Yaffe Impoundment compliance evaluation, remedial recommendations, drainage improvement evaluations, and multiple SPCC Plans.
- **T & L Foundry** Full environmental and safety compliance including programs implementation, routine inspections, and training.
- United States Army Corps of Engineers Due diligence and asbestos inspections for abandoned schools in Oklahoma.
- Department of Transportation Asbestos inspections for residential housing and commercial buildings in Oklahoma.
- Sunoco Refinery Interceptor trench and adjacent repository construction in Tulsa, Oklahoma.
- Asarco Repository construction at a former zinc smelter facility in Sand Springs, Oklahoma.
- Southern Star Natural gas compressor station decommissioning projects in Kansas and Missouri.
- United States Air Force Asbestos Inspection for decommissioning of Air Force Plant No. 3 in Tulsa, Oklahoma.