







Final Environmental Assessment

Mooring Upgrade Project

Port of Little Rock

Little Rock, Arkansas January 2023 This page intentionally left blank.



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1 Introduction

The Little Rock Port Authority (the Port) has been awarded a Port Infrastructure Development Program (PIDP) Grant from the Maritime Administration (MARAD) to support the Port of Little Rock Mooring Upgrade Project (hereinafter "Project"). Funding of the grant will proceed once the environmental review and permitting processes are complete, including compliance with the National Environmental Policy Act (NEPA) of 1969, as amended (42 USC 4323 et seq.), and U.S. Army Corps of Engineers authorization under Section 10 of the Rivers and Harbors Act (RHA). Pursuant to NEPA requirements, MARAD serves as the lead agency for the preparation of this environmental assessment (EA) since they are implementing the Project under their grant program. This EA has been prepared to analyze and disclose the potential impacts of the Proposed Action, defined below, and reasonable alternatives on the natural and human environment. It is intended to be sufficient in scope to address federal, state, and local requirements with respect to the proposed activities and permit approvals. This EA is prepared in accordance with the following: U.S. Department of Transportation (USDOT) Order 5610.1C, "Procedures for Considering Environmental Impacts;" MARAD Maritime Administration Order 600-1¹ (1985); and NEPA, as implemented by the Council on Environmental Quality (CEQ) Regulations (Title 40 Code of Federal Regulations [CFR] Parts 1500 to 1508).

1.1 Project Purpose and Need

The Port of Little Rock is located on the Arkansas River in Little Rock, Pulaski County, Arkansas (Appendix A, Figure 1). Fleeting infrastructure at the Port of Little Rock includes 15 deadman ground anchors consisting of reinforced concrete blocks embedded 1 to 3 feet (ft) below ground with steel cables and rope used to moor barges along the riverbank. The deadman anchors are nearing the end of their life expectancy, are deteriorating, and are a safety concern. Five berthing dolphins are also located within Slackwater Harbor for the purpose of pier protection but are commonly used for mooring. The Port completed a planning process in 2020 that recognized the need for the Port to continue its current growth to meet current and future capacity, including the expected cargo growth rate of 2% per year through 2031. One of the constraints identified during the planning process was a shortage of mooring locations, resulting in barge operators spending up to 30% of their time on standby waiting on moorage. In addition, future planning at the Port of Little Rock includes new infrastructure and operating systems that could open markets to agriculture and moving propane and ethanol by water instead of rail which will cumulatively result in the need for more barge capacity.²

The purpose of the Proposed Action is to improve the safety, efficiency, and capacity of the Port which is one of the primary ports on the 440-mile McClellan-Kerr Arkansas River Navigation System (MKARNS). The proposed Project will allow the Port to handle line boats more efficiently, build tows out, and eliminate standbys by improving organization of fleet barges. The Proposed

¹ U.S. Department of Transportation Maritime Administration. 1985. Maritime Administration Procedures for Considering Environmental Impacts, Maritime Administrative Order No. 600-1, July 23, 1985. Accessed online May 2021 at https://www.maritime.dot.gov/sites/marad.dot.gov/files/docs/about-us/foia/4851/mao600-001-0.pdf.

² HDR. 2021. Fleeting Operations Analysis for the Port of Little Rock.

Action will also give the Port an increased number of places to store and handle barges for transloading cargo as well as an increased number of places to handle additional freight from railcars at Slackwater Harbor (Location 2). Under current operations, the fleeting operator must move approximately one mile down river to the Arkansas River Resource Center or further to moor three- to five-barge tows because the river channel is narrow at the Main River Terminal. When this wider area is full, barges must be stored at the Slackwater Harbor. The delays caused from the additional transit time have a cascading effect of service reliability for multiple port customers as loadings and unloadings are delayed or rescheduled. The capacity improvements associated with the Action Alternative will result in the elimination or great reduction in standby times, which will reduce or eliminate unnecessary trips to the Arkansas River Resource Center or Slackwater Harbor for barge storage. The increased efficiency realized from this Project will reduce emissions, though this will likely be partially offset by increased capacity and thus more local truck and rail traffic as described in the Operational Emissions Analysis section.

In addition, the Proposed Action will decommission unsafe anchoring systems and will provide a safer and more secure mooring area. As such, implementation of the Proposed Action will reduce the time for tows to moor and transload cargo from three hours to thirty minutes in many instances resulting in a reduction of costs for the fleeting operator, stevedores, and local industries, and will improve reliability of the Port of Little Rock. The Proposed Action will provide the Port with the infrastructure improvements needed to address the immediate need for more secure and efficient mooring and transloading cargo at the Port as well as the expected need for more capacity in the future.

1.2 Project Description

The Port proposes to restore and expand current barge fleeting operations at the Port of Little Rock located on the Arkansas River in Little Rock, Pulaski County, Arkansas (Appendix A, Figure 1). The Port has been awarded a PIDP grant from MARAD to implement the Proposed Action which includes the replacement of 15 deteriorated deadman anchors in 2 locations on the Arkansas River shoreline within the Port of Little Rock with 36 steel monopile mooring dolphins (dolphins) and installation of 11 monopile mooring dolphins in the Slackwater Harbor (see Section 2.2 for a detailed description of the Proposed Action).

2 Alternatives Considered

This section describes and differentiates the No Action Alternative and the Proposed Action Alternative.

2.1 No Action Alternative

Under the No Action Alternative, MARAD would not provide funding for the Port's proposed barge mooring upgrade project and the Port would maintain the current facility as-is with no restoration or expansion of barge fleeting capacity. While the existing conditions of the natural and social environments would remain unchanged, the No Action Alternative would not meet the purpose

and need of the Proposed Action. As such, the No Action Alternative is not discussed in more detail in this EA.

2.2 Proposed Action Alternative

Under the Proposed Action Alternative, MARAD would provide funding to the Port who would implement the Proposed Action. The Proposed Action includes the installation of 47 steel monopile mooring dolphins at three locations at the Port of Little Rock, totaling approximately 15 acres (Project Area). Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River (Appendix A, Figures 2 and 3). Location 2 will include the installation of 11 additional dolphins along the northern shoreline of Slackwater Harbor (Appendix A, Figures 2 and 4). Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River north of the I-440 River Bridge (Appendix A, Figures 2 and 5). The 15 deteriorated deadman anchors will be decommissioned by removing the steel cables and abandoning the concrete anchor blocks in place.

At each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows up to 5 barges long to be moored along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual barge unit typically measuring 195 ft long, 35 ft wide, and 12 ft deep (Appendix A, Figures 3 - 5). The dolphins will be installed using impact hammering and/or vibratory hammering from a barge (on the water). Dolphins will be pile-driven up to approximately 100 ft below the ground surface with the top of the pile at approximately 265 ft (NAVD88). See Figure 6 in Appendix A for a typical cross section view of the proposed mooring dolphins. Construction of the Proposed Action is expected to take five months.

3 Existing Conditions, Environmental Consequences & Mitigation

This section includes the descriptions for the existing Project Area conditions and provides a baseline for analyzing potential effects of the Proposed Action on environmental resources. The analysis considers direct and indirect impacts, short-term and long-term impacts, and whether the impacts would be adverse or beneficial from the construction and operation of the Proposed Action. Best management practices (BMPs) and/or mitigation measures that would minimize or eliminate adverse impacts are also identified. No discussion relative to the identified resources for the No Action Alternative is included, as the No Action Alternative would have no specific direct, or indirect impacts that would result in changes to existing conditions.



3.1 Soil, Geology, and Seismicity

The Proposed Action is located in the Arkansas/Ouachita River Holocene Meander Belts region of the Mississippi Alluvial Plain Ecoregion of Arkansas.³ The region is defined by a flat alluvial plain, with point bar deposits, meander belts, oxbows, levees, abandoned channels, large rivers and some smaller low gradient streams, often channelized. Site topography ranges from 220 ft above mean sea level (amsl) to 245 ft amsl, sloping down towards the Arkansas River and Slackwater Harbor. The normal river level at the port is 231 ft. According to available information from the Port, bedrock is located at least 90 ft below the surface at the North Dock located between Location 1 and Location 3 in the Port of Little Rock.

In general, this region is underlain by Holocene alluvial sand, silt, clay, and gravel such as alfisols and versitols. The majority of potential effects will occur within the Arkansas River and Slackwater Harbor of the Port of Little Rock. Additional potential effects will occur at the 15 deadman anchors to be decommissioned and kept in place on land. Soils within a 100-ft buffer of the Project Area were mapped by the U.S. Department of Agriculture Natural Resource Conservation Service (USDA NRCS) as majority Bruno fine sandy loam and minority Norwood silty clay loam. Bruno fine sandy loam is generally found on natural levees along the Arkansas River. Surface runoff is negligible, permeability is high to very high, soils are excessively drained, and depth to restrictive feature is more than 80 inches. Norwood silty clay loam is generally found along the Arkansas River. Surface runoff is negligible, permeability is moderately high to high, and soils are well drained.⁴ A custom soil resource report for the Project Area is included in Appendix C. In general, the existing soils are suitable for supporting the proposed Project.

According to the U.S. Geological Survey (USGS), the potential for seismic activity for the site is medium to high.⁵ As a result, impacts to geological features and soils are possible. The USGS database containing information on surface and subsurface faults and folds in the United States believed to be sources of earthquakes greater than 6.0 magnitude occurring during the past 1.6 million years (Quaternary Period) shows that the Proposed Action is not located near or within a fault or fault area.⁶ The National Seismic Hazard Map is included in Appendix C.

The Project may result in temporary disturbance of upland soils and sediments in the immediate area of construction activities. Potential impacts temporarily resulting from construction activities for the proposed Project would not adversely affect soils in the Project Area with implementation of BMPs. Standard BMPs will be implemented during construction of the Project to minimize soil erosion and sedimentation.

 ³ Environmental Protection Agency. 2022. Summary Table: Characteristics of the Mississippi Alluvial Plain. Accessed March 2022 at <u>map_back_v5.ind (epa.gov)</u>.
 ⁴ U.S. Department of Agriculture Natural Resource Conservation Service. 2022. Accessed March 2022 at <u>Soil Survey of Pulaski</u>

 ⁴ U.S. Department of Agriculture Natural Resource Conservation Service. 2022. Accessed March 2022 at <u>Soil Survey of Pulaski</u> <u>County, Arkansas (usda.gov)</u>.
 ⁵ U.S. Geological Survey. 2018. 2018 Long-term National Seismic Hazard Map. Accessed March 2022 at

⁵ U.S. Geological Survey. 2018. 2018 Long-term National Seismic Hazard Map. Accessed March 2022 at https://www.usgs.gov/media/images/2018-long-term-national-seismic-hazard-map.

⁶ U.S. Geological Survey. 2022. U.S. Quaternary Faults. Accessed March 2022 at

https://www.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf&showLayers=NSHM_Fault_Sources_9437%3BNSHM_Fault_Sources_9437_1.



The Proposed Action would comply with the applicable engineering standards and Port engineering criteria. Through compliance with appropriate requirements and engineering standards, no adverse effects associated with seismically induced settlement is expected and mitigation is not required. Given the Proposed Action is at the existing Port and the commitment to implement BMPs, there will be no adverse effect to geologic features.

3.2 Air Quality

Air quality in an area is determined by the concentration of air pollutants in the atmosphere and meteorological factors (e.g., winds, air temperature, elevation). The U.S. Environmental Protection Agency (USEPA) has determined there are two main categories of regulated air pollutants of concern: criteria air pollutants and hazardous air pollutants (HAPs).

Criteria Air Pollutants

Criteria air pollutants include those regulated using health- and environmentally based criteria. The six criteria air pollutants of concern, both on a nationwide and state level, include: ozone (O₃); carbon monoxide (CO); nitrogen dioxide (NO₂); sulfur dioxide (SO₂); lead; and particulate matter (PM), including PM within specific size ranges. The USEPA has defined maximum acceptable concentrations of criteria pollutants in ambient air and calls them National Ambient Air Quality Standards (NAAQS). Areas that fall below defined ambient air standards are classified as attainment/unclassified areas and areas that do not meet the standards are nonattainment areas. The Proposed Action area is located within city limits of Little Rock, Arkansas in Pulaski County, which is currently listed by the USEPA as "attainment/unclassified" with respect to all the NAAQS (40 Code of Federal Regulations [CFR] 81).⁷ Given that the Project is in a county in NAAQS attainment, federal General Conformity rules (40 CFR 93, Subpart B) do not apply.

Hazardous Air Pollutants

The USEPA regulates HAPs, also referred to as toxic air pollutants or air toxics. These are pollutants that cause or may cause serious health effects, such as cancer, reproductive effects, or birth defects, or adverse environmental and ecological effects. The USEPA is required by the Clean Air Act to control 187 different HAPs to protect public health.

Construction Emissions Analysis

The proposed construction and demolition activities will generate temporary air pollutant emissions from construction equipment exhaust [e.g., NOx, CO, volatile organic compounds (VOCs)]. These emissions will be widely distributed in time and space over the five-month construction period and would not be expected to generate significant adverse effects. As no construction is expected to take place on land besides the removal of cables and ropes from the deadman anchors that will remain in place, no fugitive dust from earthmoving activities in the Project Area is anticipated. Regulated pollutant emissions from construction of the Proposed Action would not be expected to affect local or regional attainment status with respect to the NAAQS. Potential air quality impacts temporarily resulting from construction activities for the

⁷ U.S. Environmental Protection Agency. 2022. Arkansas Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. Accessed March 2022 at <u>https://www3.epa.gov/airquality/greenbook/anayo_ar.html</u>.



proposed Project would not adversely affect the Project Area with implementation of construction BMPs. Therefore, the Proposed Action will not result in substantial effects to air quality during construction. See Section 3.5 for a quantitative analysis of GHG emissions during construction.

Operational Emissions Analysis

The Proposed Action will result in an increase of availability of river transport for cargo that otherwise would have been shipped by rail or truck transport. Current capacity is approximately 500 barges per year. Based on a fleeting study for a medium growth scenario, barges are expected to increase at a rate of 2% per year through 2031. This will result in approximately 10 additional barges each year until 2031 for a total of approximately 70 additional barges from the 2024 construction completion date to 2031.

Although this will inevitably result in increased emissions due to increased barge traffic, it can be assumed that the increase in cargo would require increased truck trips if barge capacity is unavailable. For example, 75% of the steel coils brought in by Welspun, one of the largest area employers and users of river and rail, weigh 40 tons each. One barge can carry 37 steel coils, but a truck can only carry one with an oversized permit. A lack of adequate barge capacity would result in the emissions, fuel consumption, and congestion associated with 37 trucks per one unavailable barge trip. Thus, the local and state-level increases in vehicular emissions if realized are expected to be minor as they would be offset by more fuel-efficient barge transport vs. truck transport that would have gone to the Port.

In addition, the proposed Action Alternative will eliminate or greatly reduce stand-by times and unnecessary trips to the Arkansas River Resource Center or Slackwater Harbor resulting in a small but noteworthy reduction in emissions of air pollutants. See Section 3.5 for a quantitative assessment of greenhouse gas (GHG) emissions.

Any emissions due to operations will be distributed and dispersed over multiple air quality control regions in the state, and the immediate areas around the Proposed Action are not considered sensitive air quality receptors. Therefore, any increase in local HAP emissions is not expected to present a significant impact. As such, the operational emissions will not result in substantial short-term or long-term effects to air quality.

3.3 Hazardous Materials and Waste Management

Based on a search of reasonably ascertainable information and a recent regulatory database report,⁸ no active National Priority List (NPL), Superfund Enterprise Management System (SEMS), or Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) sites were identified within one mile of the Proposed Action area. Four sites in the Toxic Release Inventory System and 29 Resource Conservation and Recovery Act (RCRA) sites of interest were identified within a one-mile radius of the Proposed Action area (see Appendix

⁸ Environmental Database Report. 2020. The EDR Radius Map Report with GeoCheck. Tracts 10, 100E, 122E. Dated September 24, 2020.



C). These facilities are all operated by lease holders who are responsible for compliance with regulations and associated site cleanup.

The 15 deadman anchors will remain in the ground and will not be removed from the site. However, the steel cables will be cut where the deadman anchor is embedded in the ground and the cables will be hauled offsite and, if recycling is not feasible, placed in a nearby permitted landfill or other appropriate disposal facility in accordance with all local, state, and federal laws. Solid waste will be in alignment with materials accepted by the chosen facility and the Resource Conservation and Recovery Act.

As earthwork is not anticipated, contaminated soil or contaminated perched shallow groundwater is not expected to be an issue during construction. Construction of the Proposed Action is not expected to generate any hazardous waste materials. Any differences in the quantities of hazardous materials used over current baseline conditions are anticipated to be negligible. After construction is complete, the mode shift from truck to barge trips will result in a small beneficial impact to hazardous material spills, as an inland tow by barge has a lower spill rate per ton mile than truck trips (2.12 gallons per million haz-mat ton mile).⁹ Although the risk of hazardous waste spills by volume will increase as traffic increases, the shift from truck trips to barge trips due to increased barge capacity should result in a net reduction in hazardous spills. Appropriate procedures for the handling, storage, and transport of hazardous materials in accordance with all applicable rules and regulations have been implemented and would continue to be maintained during construction and operation. No adverse effects related to hazardous material are anticipated.

3.4 Noise and Vibration

Construction Noise

The Little Rock, AR Code of Ordinances (Section 18-52) contains nuisance-based prohibitions on noise, noting that "the creating of any unreasonably loud, disturbing and unnecessary noise of such character, intensity or duration as to be detrimental to the life or health of any individual, or in disturbance of the public peace and welfare is prohibited." Commercial and residential construction that includes the erection, excavation, demolition, or repair of any building and its components is allowed between the hours of 6:00 a.m. to 6:00 p.m., Monday through Saturday and 1:00 p.m. to 6:00 p.m. on Sunday. However, temporary work permits can be issued by the building and codes division to allow construction-related work outside the aforementioned hours and this section of the Little Rock, AR Code of Ordinances excludes "excavations or repairs of bridges, streets or highways by or on behalf of the city, county, or state, when the public welfare and convenience renders it impossible to perform such work during the day". The Project will not create excessive noise between the hours of 10 p.m. and 6 a.m.

Noise and vibration from construction equipment and activities has been evaluated for the three locations where dolphins would be installed.

⁹ Port of Little Rock. 2021. Mooring Upgrade Project. Accessed March 2022.

Noise-generating construction equipment includes the following:

- Impact or vibratory hammer (1x)
- Crane (1x)
- Tugboats (2x)
- Man Lift (1x)
- Welders (2x)
- Generators (2x)
- Flat Bed Trucks (2x)
- Pick-Up Trucks (3x)

Construction activities will be largely dominated by pile installation noise, with overall equipment contributions modestly increasing overall site noise emissions above that of pile driving events. Equipment sound data are taken from Table 1 of the Federal Highway Administration (FHWA) *Roadway Construction Noise Model User's Guide*¹⁰ and Table 7-1 of the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual*.¹¹ Construction noise sources were combined to establish a single overall source sound power level representing site noise emissions, taken to be 15 ft above grade. An equipment usage factor of 40 (40% operation during a given timeframe) was utilized., For efficiency, acoustical modeling was performed for all equipment based on the highest expected construction sound power level of 129 dBA associated with impact pile driving at all three construction locations. Vibratory pile driving in lieu of impact pile driving where sufficient will lower overall construction site noise emissions by 4 dBA compared to impact pile driving.

HDR modeled construction noise emissions from construction to surrounding noise-sensitive land uses (residential, commercial, and churches) using industry-accepted Cadna-A computer software, an environmental noise modeling program based on ISO-9613 (the international acoustical standard for outdoor sound propagation). This software calculates sound propagation from proposed construction noise sources to surrounding receivers in the study area. Model calculations include the factors important to sound propagation over distance, such as geometrical spreading, downwind conditions in all directions (that conservatively overestimates sound propagation), acoustical absorption characteristics of the ground surface in the propagation path, topography, temperature ($68^{\circ}F / 20^{\circ}C$), and relative humidity (70%), among others. For this modeling effort, the ground was presumed partially sound-absorptive and flat, except for waterways which are sound-reflective. Using the referenced information, Cadna-A calculates A-weighted hourly equivalent sound pressure levels (Leq(h)) at the receiver location of interest.

Figures 1-3 in Appendix D show calculated A-weighted noise contours for construction using impact pile driving techniques at Locations 1-3. Location 3 (the site just upstream of the I-440 River Bridge) construction activities will be the most acoustically impactful to surrounding neighbors, both in quantity of noise-sensitive receivers affected and with the highest noise levels due to proximity. Noise levels at residential neighbors located closest to Location 3 construction

¹⁰ U.S. Department of Transportation Federal Highway Administration. 2006. FHWA Roadway Construction Noise Model User's Guide.

¹¹ Federal Transit Administration. 2018. Transit Noise and Vibration Impact Assessment Manual.



will approach 77 dBA, with commercial facility and church neighbors receiving up to 70 dBA and 62 dBA, respectively. These noise levels at location 3 would occur over a period of about one month on weekdays between 8 AM and 5PM. Locations 1 and 2 construction noise levels at residential neighborhoods will be considerably lower, within the 50-55 dBA range, with some commercial properties experiencing noise levels in the 60-65 range.

As a general reference, daytime background noise levels for residential neighborhoods are commonly considered in the 50-55 dBA range. The Environmental Protection Agency (EPA) describes relative noise level increases as cause for annoyance. For construction noise emissions that are 0-5 dBA, 5-10 dBA, and 10+ dBA above existing background noise levels, the EPA designates these increases to be slightly, moderately, and seriously objectionable, respectively. Due to the expected Location 3 construction-related noise levels to the nearest homes, both in absolute level and relative noise level increases compared to background levels, construction mitigation measures are strongly recommended, as described below, due to the high potential for annoyance.

Given the anticipated noise impact to residential neighbors near Location 3 construction, a noise mitigation plan should be created, and noise control measures implemented to reduce noise levels to the extent possible, especially for construction at this location. Use of vibratory pile driving techniques in lieu of impact driving would reduce both noise and vibration transmission to noise-sensitive receivers and should be strongly considered, as would noise barrier applications around pile driving sites. Additionally, other construction noise control approaches for overall construction noise, to be implemented as feasible and reasonable, include:

- Air-powered equipment should be fitted with pneumatic exhaust silencers;
- Provide temporary construction noise barriers, blocking the line-of-sight from noisy activities to noise-sensitive receivers to the extent possible. Note that noise barriers only benefit ground level receivers;
- Plan truck routes and loading activities away from noise-sensitive receivers;
- Provide walled enclosures or mass-loaded vinyl wrap curtains around noisy equipment or activities;
- Wrap noisy equipment with mass-loaded vinyl, as feasible;
- Stage noisy equipment, as possible, away from noise-sensitive receivers;
- Plan noisy activities in a time-sensitive manner;
- Consider alternative construction processes;
- Utilize quiet and properly functioning equipment; and
- Employ mufflers for equipment.

Construction Vibration

During the installation of piles, ground-borne vibration levels are expected to increase. Based on preliminary estimates, vibration from pile installation is not expected to cause damage to nearby structures or homes. Vibration from impact pile driving would, however, be readily perceptible at the nearest residences, resulting in potential annoyance. Selection of vibratory pile driving approaches in lieu of impact driving techniques where sufficient would reduce vibration levels during pile installation events. One or more of the noise control approaches listed above would



be implemented during construction of the Project if impact driving is required. While likely perceptible, vibration levels from vibratory pile driving activity are estimated to be below annoyance thresholds at the nearest homes. Pile driving events would be temporary and short term at each location.

3.5 Climate Change and Energy

This section addresses project related GHG emissions and their effect on climate change in accordance with the 2016 CEQ guidance.¹² The major source of GHG emissions, consisting primarily of CO₂, is from the combustion of gasoline and diesel fuel during the construction and operation of the mooring facilities.

The construction and demolition direct and indirect GHG emissions were estimated using the California Emissions Estimator Model (CalEEMod, version 2020.4.0) designed for use in impact assessments. Representative activity data for the main construction aspects were entered into this model to generate the estimated CO_2 -equivalent GHG emissions; no mitigation options were selected. The results indicated the total estimated GHG construction emissions, in terms of CO_2 -equivalent emissions, are 337.7 metric tons. The construction activity portion of the CalEEMod annual summary report for the Proposed Action is provided in Appendix E. Increases in GHG emissions during construction will be small and temporary, and these increases are not expected to have a perceptible effect on climate change.

Operationally, the Project is expected to improve energy efficiency and reduce GHG emissions from transportation sources by allowing more efficient handling of line boats, building tows out, and organizing fleet barges so that time-costing standbys are eliminated. GHG emissions associated with fuel consumption may increase slightly in the region with an increase in truck and rail traffic entering the Facility. However, the Proposed Action will increase the capacity of the Port to transport goods by barge and reduce miles traveled for long-haul truck and rail transportation. Maritime shipping, including by barge, is the most carbon-efficient method of transporting bulk dry goods, so increased shipping by barge instead of truck or rail would be expected to result in a reduction of GHG emissions.¹³

Based on the expected increase in shipping by barge and the reduction in shipping by truck and rail, the Proposed Action will have a long-term beneficial effect on the environment related to climate change compared to current conditions. The operational direct and indirect GHG emissions reductions were estimated as shown in **Table 1** below. This is based on the assumption of a 10 barge-per-year increase as described in Section 3.2. It is assumed that each additional barge replaces 37 truck trips based on weight capacity.

¹² Council on Environmental Quality. 2016. Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act Reviews. Accessed online on May 12, 2021 at https://ceq.doe.gov/docs/ceq-regulations-and-guidance/nepa final ghg guidance.pdf.

¹³ World Shipping Council. 2020. Carbon Emissions. Accessed online on May 11, 2021 at http://www.worldshipping.org/industryissues/environment/air-emissions/carbon-emissions.

Truck Diesel Fuel Savings, Annual Gallons ⁽¹⁾	Increased Barge Diesel Fuel, Annual Gallons ⁽¹⁾	Total Diesel Fuel Savings, Annual Gallons	Mobile Diesel CO ₂ Emission Factor, kilograms per gallon (2)	Mobile Diesel CH₄ Emission Factor (Ships), grams per gallon ⁽³⁾	Mobile Diesel N ₂ O Emission Factor (Ships), grams per gallon ⁽³⁾
563,325	67,935	495,390	10.21	0.31	0.50
Mobile Diesel CO ₂ Emissions Reduction, tons per year	Mobile Diesel CH₄ Emissions Reduction, tons per year	Mobile Diesel N₂O Emissions Reduction, tons per year	Mobile Diesel CO ₂ -e Emissions Reduction, tons per year	Mobile Diesel CO ₂ -e Emissions Reduction, metric tons per year	
5,564	0.17	0.27	5,649	5,124	

Table 1. GHG Emissions Reductions from Transportation Fuel Savings from the Proposed Action

(1) = Texas Transportation Institute's Center for Port & Waterways. 2017. A Modal Comparison of Domestic Freight Transportation Effects on the General Public: 2001-2014. http://www.nationalwaterwaysfoundation.org/documents/Final%20TTI%20Report%202001-2014%20Approved.pdf (2) = Emissions Factors from USEPA 40 CFR 98, Table C-1. https://www.epa.gov/climateleadership/ghg-emission-factors-hub; Spreadsheet last modified 15 September 2021.

(3) = Emissions Factor from USEPA 2020 Inventory of U.S. GHG Emissions and Sinks: 1990-2018. https://www.epa.gov/climateleadership/ghg-emission-factors-hub; Spreadsheet last modified 15 September 2021.

3.6 Public Services and Utilities

The Port is served by a variety of public services and utilities including drinking and wastewater service, telephone service, electric power service, and trash service.

The Port of Little Rock would work with construction contractors regarding any required utility coordination or construction permits. Public and private utility providers would be contacted to mark the location of underground utilities prior to construction. The proposed expansion and upgrade of mooring capacity is not expected to cause short- or long-term impacts to public services or utilities.

3.7 Water Quality

The proposed Project includes two locations (Locations 1 and 3) in the Arkansas River and one location (Location 2) in Slackwater Harbor, a constructed embayment connected to the Arkansas River. Both waterbodies have been assessed to be in good condition.¹⁴

The heavy equipment required to install the monopile dolphins could lead to the potential of fuels, lubricants, antifreeze, and other materials spilling into the Arkansas River without proper operation and monitoring. Proper mitigation through BMPs including Spill Prevention, Controls, Countermeasure (SPCC) and a Stormwater Pollution Prevention Plan (SWPPP) is expected to result in no adverse effects.

No return water or fill within state surface waters is being proposed with the Project. Impact hammering and vibratory pile-driving installation methods will disturb bottom sediments and may

¹⁴ Environmental Protection Agency. 2022. How's My Waterway? – Arkansas River. Accessed March 2022 at How's My Waterway - Waterbody Report (epa.gov).



cause temporary increase in suspended sediment at each dolphin location. Increased turbidity is expected to occur primarily at the base of the water column near the river bottom. Negative effects would be temporary and short term, and water quality is expected to return to normal conditions soon after project completion.

3.8 Surface and Ground Waters

The proposed Project will affect the surface waters of the Arkansas River and Slackwater Harbor by installing additional mooring dolphins and likely increasing barge traffic. Since the Project Area is already heavily trafficked by barges, these impacts are expected to be minimal.

Within the Proposed Action area, there are currently no 303(d) listed Impaired Waters by the Arkansas Department of Environmental Quality (ADEQ).¹⁵ Beneath the Project Area lies the Sparta Aquifer which is part of the Mississippi embayment aquifer system.¹⁶ Many communities rely upon the Sparta Aquifer for their public water supply and agricultural uses due to its excellent water quality. The Sparta Aquifer in Arkansas is exposed at the surface in many locations that parallel the Fall Line at the western extreme of the Mississippi embayment and becomes confined and more deeply buried in the subsurface southward towards the Gulf of Mexico. The thickness of the Sparta Aquifer ranges from less than 100 ft to 1,000 ft in southeastern Arkansas. Groundwater quality throughout the state is considered good to excellent.¹⁷

The Proposed Action includes the installation of monopile dolphins to a depth of 100 ft below the surface which could penetrate the Sparta Aquifer in some locations. The piles will be steel and will be treated with a coal tar epoxy primer to reduce corrosion over time. However, the epoxy is applied to the portion of the pile exposed to water and does not extend along the entire length of the pile. Typically, the epoxy-treated portion of the pile may penetrate 3 to 5 ft within the subsurface after installation. The Proposed Action is expected to have no adverse effect on surface waters or the Sparta Aquifer.

3.9 Waters of the US, Including Wetlands

The Proposed Action area is primarily within the Port of Little Rock channel limits of the Arkansas River, a traditional navigable water (TNW) subject to the U.S Army Corps of Engineers (USACE) jurisdiction. Mooring dolphins will be installed in the river and harbor by equipment operating on barges.

Based on aerial imagery and a March 15, 2022 site visit, potential waters of the U.S., including wetlands, occur within all three locations of the Proposed Action area. As these features have not been confirmed by the USACE they will be referred to as potential for the purposes of this document. Potential waters of the U.S. in Location 1 include streams adjacent to Industrial Harbor Drive and the railroad track that runs parallel to the Arkansas River, and a palustrine emergent

https://www.adeq.state.ar.us/water/planning/integrated/303d/list.aspx.

¹⁵ Arkansas Department of Environmental Quality. 2018. 303(d) List. Accessed March 4, 2022 at

¹⁶ U.S. Geological Survey. 2022. The Sparta Aquifer: A Sustainable Water Resource. Accessed March 4, 2022 at https://pubs.usgs.gov/fs/fs-111-02/.

¹⁷ Arkansas Department of Environmental Quality. 2022. Groundwater Protection Program. Accessed March 4, 2022 at https://www.adeq.state.ar.us/water/planning/groundwater/.

wetland fringing the southern shoreline of the Arkansas River. In Location 2, one palustrine emergent wetland was observed between Slackwater Harbor Drive and the western shoreline of Slackwater Harbor. Potential waters of the U.S. in Location 3 include a palustrine emergent wetland near the western edge of I-440 south of an access road that parallels the Arkansas River, one palustrine emergent wetland that fringes the Arkansas River near an existing mooring dolphin, and one palustrine emergent wetland farther northwest and parallel to the Arkansas River. In addition, one stream was observed with a direct hydrologic connection to the Arkansas River approximately 0.35 miles northwest of the intersection of I-440 with the southern shoreline of the Arkansas River. Additional information on these potential waters of the U.S., including wetlands, as well as photos from the site survey are included in Appendix C.

The mooring dolphins will be installed by equipment on a barge and the construction barge will be loaded and unloaded from existing barge docking facilities. No wetlands identified during the site survey on March 15, 2022 will be impacted by project activities and the Arkansas River and Slackwater Harbor are the only streams to be impacted by project activities. Direct and indirect impacts will occur to the Arkansas River and Slackwater Harbor as a result of the installation of the 47 mooring dolphins, which would occupy a total area of less than 0.02 acre. The overall affected area including the area occupied by barges moored to the new mooring dolphins, is approximately 15 acres of water surface. The Port of Little Rock identified a shortage of mooring locations to continue its growth to meet current and future capacity. Therefore, given the need for more mooring locations, the location of streams and wetlands and the overall layout and existing infrastructure at the Port of Little Rock, no practicable alternatives to installing the dolphins in the Arkansas River and Slackwater Harbor were identified.

A Preliminary Jurisdictional Determination (PJD) request has been submitted to the USACE Little Rock District. Regulatory coordination regarding Section 10 of the RHA, Section 14 of the RHA (also referred to as Section 408), and Section 401 of the Clean Water Act is ongoing with the USACE (see Section 5 for more details) and State of Arkansas. No adverse impacts to waters of the U.S., including wetlands, are anticipated from the proposed Action Alternative and no mitigation is required.

3.10 Floodplains

The 100-year floodplain is defined by the Federal Emergency Management Agency (FEMA) as an area with a 1% probability of flooding each year. The Proposed Action area is illustrated on two FEMA floodplain panels: Map Number: 05119C Panels: 0481G and 0483G, effective 07/06/2015. These panels show the Proposed Action area is located within the 100-year floodplain within Zone AE with a base of flood elevation (BFE) of 246-248 ft (see Appendix C).¹⁸ The Proposed Action has been designed to accommodate the flows and velocities associated with the expected 100-year flooding event. The proposed structures have been sufficiently sized to avoid any increase to the BFE and are not anticipated to result in adverse effects on the direction or velocity of flood waters. The Proposed Action will not impede or redirect flows in a

¹⁸ FEMA. 2022. FEMA Flood Map Service Center | Search By Address. Accessed March 2022.



way that would result in substantial erosion or flooding on- or off-site. Direct or indirect floodplain impacts to the existing Port and surrounding Port-owned properties are not anticipated.

The location of the Project Area was selected to achieve the purpose and need of the proposed Project. As discussed in Sections 1 and 2 above, to achieve the purpose and need of the proposed Project, all aspects of the proposed Project must be constructed within the floodplain and/or flood zone. This is in accordance with Executive Order 11988, Floodplain Management, and DOT Order 5650.2, Floodplain Management and Protection, that state an agency shall not select or approve a preferred alternative involving actions on the floodplain unless the responsible agency official can make a written finding that the Proposed Action is the only practicable alternative. As the proposed Project's purpose and need cannot be achieved outside of the floodplain, the proposed Project is the only practicable alternative.

3.11 Fish and Wildlife

The Project Area has been disturbed by human use and mainly consists of Port infrastructure such as the deadman anchors, access roads, railroads, docks, and barges. Wildlife habitat within the Project Area is generally of low value and offers limited support for wildlife species. A variety of generalist species adapted to urban environments and disturbance such as gulls, grackles, doves, some songbirds, and small rodents are likely to occur in the Project Area.

Based on the lack of established and mature vegetation, it is anticipated that most bird species would occur as migrating transients. Construction and operation within the Project Area will cause minor impacts to wildlife species from noise and in-water activities. The Proposed Action is not anticipated to adversely impact aquatic mammals, reptiles, fish, or related habitat due to the low-quality habitat in this portion of the Arkansas River and high volume of barge traffic. The Proposed Action is not anticipated to have adverse effects to fish and wildlife.

3.12 Threatened and Endangered Species and Critical Habitat

Plant and Wildlife Species

Threatened and endangered species were considered as required by NEPA and the Endangered Species Act of 1973, Section 7, as amended. The official species list acquired from the U.S. Fish and Wildlife Service's (USFWS's) Information for Planning and Consultation System (IPaC) website¹⁹ identifies four threatened, endangered, and candidate species with potential to occur within the Project Area. All of these species are managed by USFWS and no listed or candidate species managed by the National Marine Fisheries Service (NMFS) occur in the Project Area (see Section 7 for more details). IPaC also identified five species of migratory birds and bald or golden eagles protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act that may be encountered within the Project Area.

¹⁹ U.S. Fish and Wildlife Service. 2021. Information for Planning and Consultation: List of threatened and endangered species. Consultation Code: 02ETTX00-2021-SLI-1755 dated May 5, 2021. Accessed online at https://ecos.fws.gov/ipac/.



Based on desktop review and a site visit conducted on March 15, 2022, the Project Area has potentially suitable habitat for three federally listed species, the eastern black rail (Laterallus *imaiensis ssp. jamaicensis*), piping plover (Charadius melodus), red knot (Calidris canutus rufa), all of which are rare in the area; the alligator snapping turtle (Macrochelys temminckii), proposed for listing as threatened; and the monarch butterfly (Danaus plexippus), a candidate for listing. Generally, the bird species would be found passing through during migration, while the monarch butterfly may occur if milkweed occurs onsite. The alligator snapping turtle occurs in a range of habitat types including deeper water of large rivers and tributaries as well as bayous, canals, swamps, lakes and reservoirs, ponds, and oxbows. In general, it prefers structures, such as tree roots, stumps, and submerged trees, over open water and tends to favor areas with a high percentage of canopy cover. Installation of the 47 mooring dolphins is expected to temporarily increase water turbidity during construction and result in the displacement of submerged aquatic vegetation that is potential suitable habitat for the alligator snapping turtle. However, installation will take about 5 months and, therefore, increased water turbidity would be short term and minor and any effects to suitable habitat from the installation of piles would be minimal. Therefore, any effects on the alligator snapping turtle would be minimal.

The Proposed Action includes construction activities occurring primarily within the Arkansas River and Slackwater Harbor and some activity on land to decommission deadman anchors located on land. Based on the current use of the Project Area by the Port of Little Rock, the location of the mooring dolphins, and the proposed installation methods, the Proposed Action may affect, but is unlikely to adversely affect the alligator snapping turtle and is expected to have no effects on the eastern black rail, piping plover, red knot, and monarch butterfly. The USFWS has concurred with this finding (see Section 5 for more details).

Sensitive Natural Communities

Several federal regulations protect sensitive natural communities such as waters of the U.S. under Section 404 of the CWA, USFWS designated critical habitat for federally listed species, and essential fish habitat (EFH) as recognized by NMFS. The Arkansas River and associated Slackwater Harbor are Section 10 waters under the RHA and may provide suitable habitat for aquatic species. However, no protected aquatic habitats are known to occur within the Project Area. Therefore, no effects to sensitive natural communities are expected from the Proposed Action.

Migratory Birds

Under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act, the take of protected migratory bird or eagle species, their parts, or eggs is prohibited without prior authorization by the USFWS. IPaC has listed five bird species that warrant special conservation consideration near the Project Area. Two of these species, the lesser yellowlegs (*Tringa flavipes*) and rusty blackbird (*Euphagus carolinus*), are present during spring and fall migration and/or the winter and do not breed in the area. The red-headed woodpecker (*Melanerpes erythrocephalus*) is present year-round, and the prairie warbler (*Dendroica discolor*) is a summer resident. Suitable habitat for these species does not occur in the area of the proposed mooring dolphins and is limited in the Port area. The bald eagle (*Haliaeetus leucocephalus*) warrants special attention because of the Bald and Golden Eagle Act. Suitable nesting habitat does not occur in the Project



Area. Eagles could forage over the river and harbor areas and be displaced by the proposed construction activities and barges moored to the completed dolphins. Any such displacement would not adversely affect eagles. Overall, the Proposed Action will have no adverse effects to migratory birds.

3.13 Section 4(f) Evaluation

Section 4(f) of the U.S. Department of Transportation Act protects publicly owned parks, recreation areas, and wildlife and waterfowl refuges, as well as significant historic sites from use by USDOT-funded projects. No structures listed or eligible for listing on the National Register of Historic Places (NRHP) are present within or would be affected by the Proposed Action.²⁰ No publicly owned parks, recreation areas, or wildlife and waterfowl refuges occur in or in the immediate vicinity of the Project Area (see Appendix C).²¹ Therefore, there will be no effects to Section 4(f) resources.

3.14 Cultural and Tribal Resources

Several federal laws and regulations govern protection of cultural resources, including the National Historic Preservation Act (NHPA; 1966), the Archeological and Historic Preservation Act (1974), the American Indian Religious Freedom Act (1978), the Archaeological Resources Protection Act (1979), and the Native American Graves Protection and Repatriation Act (1990). The NHPA defines historic properties as buildings, structures, sites, districts, or objects listed in or eligible for listing in the NRHP. Under Section 106 of the NHPA, federal agencies are required to assess the effects of their actions on historic properties.

The Proposed Action area is located at the Port of Little Rock, which opened in 1971. A warehouse building on Lindsey Road dates to the Port's opening, but field investigations verified the project components would not be visible from the warehouse. Dwellings along Shelby Circle and Plantation Drive, approximately 0.15 mi west of the Project Area at Location 3, are also excluded from the Area of Potential Effect (APE) as thick vegetation and topography prevent visibility of the Project. While evaluation of the Port of Little Rock in its entirety was beyond the scope of the Project, none of the proposed project components would change the existing character or function of the Facility. A more detailed cultural resources review is included in Appendix F. Regarding archaeological resources, the entirety of the ground-disturbing activities for archaeology is submerged underwater within the Arkansas River and Slackwater Harbor of the Little Rock Port Authority. Previous surveys encompassing the proposed mooring dolphin locations did not identify any cultural resource sites overlapping the APE. Therefore, the proposed Project is not anticipated to introduce any impacts to recorded cultural resources.

The Proposed Action as currently defined would not affect historic properties, pursuant to 36 CFR 800.4(d)(1). Concurrence by the Arkansas State Historic Preservation Office (SHPO) with this determination was received on April 12, 2022. Tribal coordination was initiated on April 5, 2022 via email and/or hard-copy mail. Tribes did not identify historic properties of religious and/or

²⁰ NPS. 2022. National Register of Historic Places (nps.gov). Accessed March 2022.

²¹ USGS. 2022. U.S. Geological Survey Map Viewer (usgs.gov). Accessed March 2022.

cultural significance to their Tribe that may be affected by the Project. See Chapter 5 for more details on this consultation conducted in accordance with NHPA Section 106. SHPO and tribal coordination letters are included in Appendix G.

3.15 Wild and Scenic Rivers

Neither the Arkansas River nor Slackwater Harbor are designated as national wild and scenic rivers. The closest wild and scenic river is Big Piney Creek Wild and Scenic River located approximately 70 miles northwest of the Project Area. There will be no effects to wild and scenic rivers from the Proposed Action since none exist in or near the vicinity of the Project Area.

3.16 Environmental Justice

Executive Order 12898 directs federal agencies to evaluate the effects of their proposed actions on minority and low-income populations and avoid any disproportionate impacts to such populations. The Project Area is within Census Tract (CT) 9804, Block Group (BG) 1 and CT 40.07, BG 2. According to the American Community Survey (ACS) 2019 5-year estimates²² block data, these two CTs have a minority population of over 50% (**Table 2**). CT 40.07 has a poverty rate of below 50% but over 10% higher than the general population of Pulaski County and Arkansas (**Table 3**). Due to the small population size of CT 9804 (532), census data on poverty and income was unavailable. Relative to Pulaski County and the state, the Project Area has a high proportion of minority and low-income residents. EPA EJScreen: Environmental Justice Screening and Mapping Tool results are included in Appendix I.

Geography	Minority Population	% Minority Population
CT 40.07 BG 2	1,144	76
CT 9804 BG 1	N/A	N/A
Pulaski County	199,928	50
Arkansas	897,012	30

Table 2. Minority Status in the Project Area, County, and State²³

²² American Community Survey. 2020. ACS Data. Accessed online March 2022 at https://www.census.gov/programs-surveys/acs.

²³ American Community Survey. 2020.

Geography	Population Below Poverty Level	% Poverty Rate, All People
CT 40.07 BG 2	810	29
CT 9804 BG 1	N/A	N/A
Pulaski County	64,988	17
Arkansas	496,260	17

Table 3. Poverty in the Project Area, County, and State²⁴

Land use within and near the Project Area is industrial. The nearest residential neighborhoods are located approximately 0.1 miles west of Location 3 of the Proposed Action area. As no landbased work is anticipated, the Proposed Action will not result in any business or residential displacements or relocations and will not divide neighborhoods or create barriers. The communities closest to the Port would experience a minor increase in vibration, traffic at rail/road crossings, and air quality from the anticipated addition of up to 10 barges/year. Construction noise, particularly noise resulting from pile driving and without effective noise mitigation measures, has the potential to result in short-term, disproportionate adverse impacts to minority and/or low-income residents in the residential areas near Location 3 in particular, which encompasses both Project-Area census block groups (see Section 3.4). However, the surrounding region will experience a net benefit to traffic and air quality due to the shift from truck trips to barge trips. If construction staff is sourced locally, there may be minor, temporary economic benefits to nearby communities.

The Proposed Action is anticipated to grow the Port's capacity and thereby attract additional global and feeder carriers to expand the routes and markets served. The Proposed Action is expected to enhance efficiency of the Port and boost competitive position. The surrounding community and region would benefit from the additional volumes, spurring jobs and potentially economic growth in the area. Therefore, this Project could result in potentially adverse short-term impacts depending on noise mitigation measures during the construction period, but it will not result in long-term disproportionately high and adverse effects on minority and/or low-income populations.

3.17 Traffic and Safety

The Port of Little Rock is centrally located for global trade, connecting U.S. markets and the deepwater ports of the Gulf of Mexico. It provides year-round access to the Arkansas River, major U.S. interstates (I-30 and I-40 via I-440), and Union Pacific and Burlington Northern Santa Fe railroads. The Port is also within a mile of the Bill & Hillary Clinton National Airport. The Port was opened in 1971 as part of the MKARNS, which runs from the Mississippi River northwest to 15 miles east of Tulsa, Oklahoma. The Port currently includes three full-service river terminals and can move 200 inbound and 350 outbound tons of cargo an hour, shipping 12 million tons annually.²⁵

²⁴ American Community Survey. 2020.

²⁵ Port of Little Rock. 2020. State of the Port. Accessed March 2022 at https://www.portoflittlerock.com/wp-content/uploads/2021/07/Port-of-LR-Annual-Report-2020.pdf .

The main road entrance to the Port is located at the intersection of Lindsey Road and Industrial Harbor Drive. Current access to the Proposed Action area is provided by Industrial Harbor Drive and Industrial Harbor Road. Since construction activities would be confined to water, major road traffic in the area is not anticipated. The monopole mooring dolphins would be transported to the Project Area by barge. However, there would be a temporary increase in truck traffic delivering and removing other construction and demolition materials from the port area during the five-month construction period. Main components of the area's transportation system are shown on Figure 7^{26} in Appendix A.

Currently, 500 barges per year move through the Port. Cargo growth rates are expected to be 2% per year for a medium growth scenario through 2031, so it can be assumed that rail and barge traffic will also increase at a rate of 2% per year through 2031. This will result in approximately 10 additional barges each year until 2031 for a total of approximately 70 additional barges from the 2024 construction completion date to 2031. Truck traffic may increase locally over what is currently experienced as barge-loading becomes more available at the site. However, the Proposed Project will have an overall net decrease in truck traffic in the larger surrounding region given the reduction of long-distance truck transport that will occur from the increased availability of shipment by barge. Thus, there may be a short-term minor impact to upbound/downbound river traffic and recreational or commercial boat traffic during the five-month construction period. However, there will be a long-term beneficial impact to river traffic due to an overall net decrease in truck traffic due to an overall net decrease in truck traffic due to an overall net decrease in truck traffic in the larger surrounding region. See Section 3.13 for additional information on impacts to recreation.

The Proposed Action will not require modifications to the existing public road network. Significant impacts and adverse effects to site and area roadways and the transportation system would not be expected for the Proposed Action.

Under the No Action Alternative, the fleeting operator must move downstream to the Arkansas River Resource Center and beyond to moor three- to five-barge tows because the river channel is narrow at the Main River Terminal (also referred to as the Little Rock Port Terminal) located immediately downstream of the I-440 overpass (see Figure 7). When this wider downstream area is full, barges must be stored at the Slackwater Harbor. The delays caused from the additional transit time have a cascading effect of service reliability for multiple port customers as loadings and unloadings get delayed or rescheduled. The capacity improvements associated with the Action Alternative will result in the elimination or great reduction in standby times, which will reduce or eliminate unnecessary trips to the Arkansas River Resource Center or Slackwater Harbor for storage.

The Little Rock Port Authority Railroad currently operates 21 miles of track, including over six miles of storage track. The Class 3 Railroad operates a five-person crew Monday through Friday, with switching services provided from 7 a.m. to 7 p.m. A three-person crew providing limited switching is available on Saturday and Sunday as needed, per Federal Railroad Administration regulations. The Little Rock Port Authority Railroad connects to the Union Pacific Railroad and by

²⁶ Port of Little Rock. 2022. Little Rock Port Authority Interactive Map. Accessed April 2022 at <u>https://etrbusinessdev.maps.arcgis.com/apps/MapSeries/index.html?appid=08ddf277da894c608bf6cd2805501c0c.</u>

trackage/haulage rights to the Burlington Northern Santa Fe. The Proposed Action could impact the current rail operations by reducing the proportion of rail trips as increased barge capacity becomes available. Minor increases in rail traffic may occur to deliver goods to the port for loading onto barges or for distributing goods received by barges as barge capacity is increased. If realized, these impacts would be minor and may negate each other.

There are numerous hazards associated with Port facilities and operations. The primary public safety hazards include moving vehicles and equipment, lifting and unloading, and manual handling activities. These activities are currently ongoing at the Port and will continue through construction and operation of the Proposed Action. The Little Rock Port Authority is responsible for the oversight and monitoring of operations at the Port, and Little Rock Police Department is comprised of law enforcement and security officers in charge of providing a safe and secure environment in the area. The Port is compliant with measures preventing transportation security incidents in accordance with the Facility Security Plan, as required by Chapter 33, CFR Sections 104 and 105. Construction activities have the potential to result in physical harm to construction workers, tenants, Port staff, and unauthorized persons entering the construction area. During construction, workers would comply with existing safety and security requirements of the Port and other relevant federal, state, or local safety regulations. Lifting, unloading, and manual handling activities would be performed in a manner consistent with safety rules and standard Port operating procedures. The Proposed Action will not be expected to adversely affect public safety or adversely affect safe Port operations during construction and operation.

3.18 Land Use and Visual Impacts

The proposed Project Area located in Pulaski County is currently zoned for Heavy Industrial usage (I3) and Single-Family Residential (R2).²⁷ Locations 1 and 2 of the proposed Project are zoned for heavy industrial which includes activities that normally emit a high level of noise, dust, odor, or other pollutants that require separation from residential areas. Location 3 of the proposed Project is zoned for residential single-family homes. Activities in the surrounding industrial area include the production of plastics, fertilizers, multiple recycling centers, and port operations. The visual landscape surrounding the Project Area is relatively flat with unmaintained fields covering most of the area. Heavy industrial buildings are present in the background as well as container storage and railway infrastructure. Numerous homes are located near Location 3.

There would be no changes in land use resulting from the proposed Project as it aligns with the Project Area's zoning designation. All activity would occur within the property of the Port of Little Rock or on-water construction. Temporary visual impacts to the Project Area would be caused by the presence of construction equipment, construction machinery, a staging area, and presence of construction workers. Visual impacts to viewers post-construction would include an increase is the number of mooring dolphins present and an increase of barge fleeting operations and moored barges in the area. Barge fleeting operations are already common in the Project Area. No adverse visual impacts are expected.

²⁷ City of Little Rock Planning & Development. Zoning Viewer Web Application. Accessed online on March 4, 2022 at https://maps.littlerock.gov/webapps/lr_zoning_viewer/

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4 Public Involvement

The Port hand mailed 120 announcements to residences and businesses within a 1-mile radius of the Project Area on September 14, 2022, notifying them of the Project. The announcement included a summary of the Project and contact information for the public to submit questions or comments about the Project. The Port also made copies of the Draft EA report available to the public upon request at the Little Rock Port Authority offices, held a public meeting on September 30, 2022, at the request of the public, and accepted public comments and questions in response to the public notice letter for 30 days. By October 15, 2022, the Port received 76 comments from the public in response to the Project. The EA has been updated and addresses the public comments as appropriate. A copy of the mailed announcement and a table containing public comments and responses are included in Appendix G, Response to Public Questions and Comments.

5 Environmental Commitments

The Port has identified environmental commitments that the Project will uphold to reduce and avoid impacts to environmental resources to the greatest extent possible whilst still meeting the purpose and need of the proposed Project. These commitments are detailed in **Table 4** below.

Port Committed Action
Vibratory pile driving will be utilized where sufficient rather than impact driving techniques to reduce vibration levels from the Project. One or more of the noise control approaches listed in Section 3.4 of the EA would be implemented during construction of the Project if impact driving is required. Temporary noise impacts are anticipated to occur over a period of approximately one month between 8:00 am and 5:00 pm during weekdays. The Final EA includes recommendations for noise mitigation which will be included in the construction contract documents as appropriate.
Any future changes to port operations, including, for example, the construction of infrastructure necessary to ship liquid and gaseous products, would comply with applicable federal, state, and local environmental review and permitting requirements. The Port will issue an advisory to the harbor service to eliminate fleeting of barges with potentially hazardous cargo near the residential area.

Table 4. Environmental Commitments

Type of Commitment	Port Committed Action
	The Little Rock Fire Department Hazardous Material team and Rescue Unit will respond to hazardous material spills as needed. Depending on the nature of the incident, the City of Little Rock Emergency Management Department can send notifications through the National Weather Service alert system, emergency sirens equipped with an announcement system, and by door-to- door notifications. Most likely, residents would be asked to shelter in place, although evacuations could take place. Both the City of Little Rock and Pulaski County have boats that could be used in case emergency evacuation by water is needed.
Water Quality	The Port and shipping companies must comply with federal, state, and local regulations that will minimize adverse impacts.
Soil, Geology, and Seismic Activity	Standard best management practices will be implemented during construction.

6 Indirect and Cumulative Impacts

Effects or impacts are assessed during federal actions following the definition set forth by the CEQ regulations (40 CFR Parts 1500-1508). The regulations define effects or impacts as "changes to the human environment from the proposed action or alternatives that are reasonably foreseeable and have a reasonably close causal relationship to the proposed action or alternatives, including those effects that occur at the same time and place as the proposed action or alternatives."

Indirect Impacts

Indirect effects are those impacts that occur later in time or are farther removed in distance as a result of the proposed Project but are still reasonably foreseeable. The Proposed Action is located at the existing Facility within the Port and surrounded by industrial facilities and the River Terminal, which is currently used to transport forest products, metal products, and bulk products such as grain, clay, rock, fertilizer, and cement. Under the Proposed Action, the Port would increase its capacity and reliability through the replacement of 15 deadman anchors with 47 steel monopole dolphin moorings along 3,000 ft of Port-owned riverbank.²⁸ The Proposed Action could have an impact on resources such as air, water, floodplains, and traffic.

²⁸ POLR. 2019b. RIVER TERMINAL. Available at River Terminal · Port of Little Rock (accessed March 2022).

Cumulative Impacts

Cumulative impacts include a project's direct and indirect effects, as well as other past, present and reasonably foreseeable actions, that, while not caused by the project, would in combination with the project add to the overall effect, whether adverse or beneficial, on the environment. Projects that are reasonably foreseeable include the pending Trex Little Rock Port factory construction on 290 acres; the potential dock revitalization project to repair the Port's original dock on the Arkansas River; the construction of a new dock on Slackwater Harbor; and the Fourche Island Levee relocation.^{29,30,31} The ongoing and planned projects in the Port will result in impacts to resources even without the Proposed Action. The Proposed Action and other reasonably foreseeable projects nearby could have an impact on resources such as air, water, floodplains, and traffic.

Other Port construction projects and ongoing existing channel maintenance already have or are acquiring regulatory permits including Section 401 water quality permits and Clean Air Act Permits. No long-term water quality or air quality concerns have arisen and no adverse impacts from these temporary effects were identified in the channel deepening project analysis. Considering this, the temporary localized effects from turbidity and emissions from the Proposed Action and other reasonably foreseeable actions would likely have no significant cumulative effects.

The Project has been designed and sufficiently sized to avoid any increase to the BFE and adverse impacts to the direction or velocity of flood waters are not expected. Impacts could occur with other projects on the Port or within the area which would impact floodplains or flood zones. All projects constructed within the floodplain would be expected to meet FEMA criteria for the 100-year floodplain to not raise the BFE and would be expected to comply with ADEQ requirements, therefore, with these requirements and implementation of appropriate BMPs, impacts to floodplains would not be expected.

Construction and operation of the reasonably foreseeable projects nearby would have an impact on local traffic accessing the Port. Any traffic impacts generated by the Proposed Action would likely be much smaller than those incurred by larger land projects, such as the Trex Little Rock Port factory. During construction, temporary traffic impacts will be controlled by traffic control plans which include emergency vehicle plans and plans for to maintain roadway access. The proposed Project and others are in an industrial area that often experiences construction related traffic for facility, road, rail, and other utility expansions and projects. During operation, truck traffic may increase locally as increased barge capacity becomes available at the site and demand for cargo transport increases. However, the Proposed Action will have an overall net decrease in truck traffic given the reduction of long-distance truck transport that will occur from the vessel export option. Therefore, it is not expected that there would be a significant effect on traffic during construction or operation.

 ²⁹ POLR. 2019a. SLACKWATER HARBOR. Available at Slackwater Harbor · Port of Little Rock (accessed March 2022).
 ³⁰ Port of Little Rock. 2020. State of the Port. Available at Port-of-LR-Annual-Report-2020.pdf (portoflittlerock.com) (accessed March 2022).

³¹ POLR. 2021b. DOCK REVITALIZATION PROJECT – PUBLIC MEETING. Available at Dock Revitalization Project – Public Meeting · Port of Little Rock (accessed March 2022).

Since the Proposed Action is occurring within the existing Facility, it will not substantially contribute to effects to any other resources when considered along with other reasonably foreseeable actions to occur within the Port.

7 Agency and Tribal Consultation

Consultation with NMFS and the USFWS under Section 7 of the Endangered Species Act was initiated on February 23, 2022 and February 28, 2022, respectively. NMFS concluded the proposed Project is beyond their jurisdiction. Therefore, no additional consultation with NMFS was required. Additional information regarding the Proposed Action and potential effect determinations for threatened and endangered species with a potential to occur within the Project Area, including the alligator snapping turtle (*Macrochelys temminckii*), a federally proposed threatened species, was provided to the USFWS on March 7, 2022. Based on the Proposed Action, no effect to the piping plover, red knot, or monarch butterfly are expected. The Proposed Action may affect, but is not likely to adversely affect the alligator snapping turtle. The USFWS concurred with these effect determinations via email response dated March 8, 2022. Coordination letters are included Appendix H.

On behalf of the Port of Little Rock, HDR submitted a permit application to the USACE, Little Rock District on February 28, 2022 requesting authorization for impacts to Section 10 waters from the proposed Project (e.g., a Section 10 Letter of Permission). The USACE requested anchorage design calculations to determine the application complete. HDR is working with the Port of Little Rock on developing the requested anchorage design calculations. Therefore, Section 10 permitting as well as potential Section 408 coordination is pending. Coordination letters are included in Appendix H.

Tribal consultation was initiated on April 5, 2022, with the following federally recognized tribes with an interest in Pulaski County: Alabama-Quassarte Tribal Town, Apache Tribe of Oklahoma, Cherokee Nation, Choctaw Nation of Oklahoma, Coushatta Tribe of Louisiana, Mississippi Band of Choctaw Indians, Muscogee (Creek) Nation, Osage Nation, and Quapaw Tribe of Indians. Two of the seven Tribes responded within the 30-day coordination timeframe: Choctaw Nation of Oklahoma and Osage Nation. The Choctaw Nation of Oklahoma concurred that the Project would have no effect on historical properties that may have religious and cultural significance to their Tribe.

On behalf of the Osage Nation, in a letter dated May 6, 2022, the Osage Nation Historic Preservation Office (ONHPO) requested cultural surveys be performed to determine if the Project would affect historical properties significant to their Tribe. Upon further coordination between the Port, HDR, and the ONHPO, the ONHPO determined the proposed Project most likely would not adversely affect any sacred properties and/or properties of cultural significance to the Osage Nation in a letter dated June 9, 2022. The Osage Nation asked that activities cease immediately and the ONHPO be contacted if artifacts or human remains are discovered during project-related activities. The Choctaw Nation included a similar request in their May 5, 2022 concurrence, requesting that work be stopped and that the Choctaw Nation Historic Preservation Department



be contacted immediately in the event that Native American artifacts or human remains are encountered. The Tribal coordination letters and responses are included in Appendix H.

On April 5, 2022, a letter was sent on behalf of MARAD to the Arkansas Department of Parks, Heritage and Tourism, which serves as the State Historic Preservation Office (SHPO) regarding compliance with Section 106 of the NHPA for this Proposed Action. SHPO concurred that no historic property should be affected by the Project in a letter dated April 12, 2022. SHPO consultation letters and responses are included in Appendix H.

8 List of Preparers

Table 5 provides information about those individuals who collaboratively prepared this EA for MARAD on behalf of the Port of Little Rock.

Name	Affiliation	Title	Years of experience
Justin Carney	HDR	Program Manager	10
Charles Nicholson	HDR	Senior Environmental Scientist	44
Nicole Morgan	HDR	Environmental Project Manager	14
Zachary Overfield	HDR	Cultural Resources Team Lead	11
Ann Keen	HDR	Senior Architectural Historian	18
Benjamin Lipke	HDR	Senior Archaeologist	19
Steven Peluso	HDR	Senior Air Compliance Project Manager	37
Gracelyn Jones	HDR	Environmental Scientist	5
Robert Brenneman	HDR	Senior Acoustician	23
Caroline Ryciuk	HDR	Environmental Scientist	1
Sarah Weyler	HDR	Environmental Scientist	1
Braxton Eden	HDR	Environmental Planner	1

Table 5. List of Preparers

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Appendix A

Project Maps

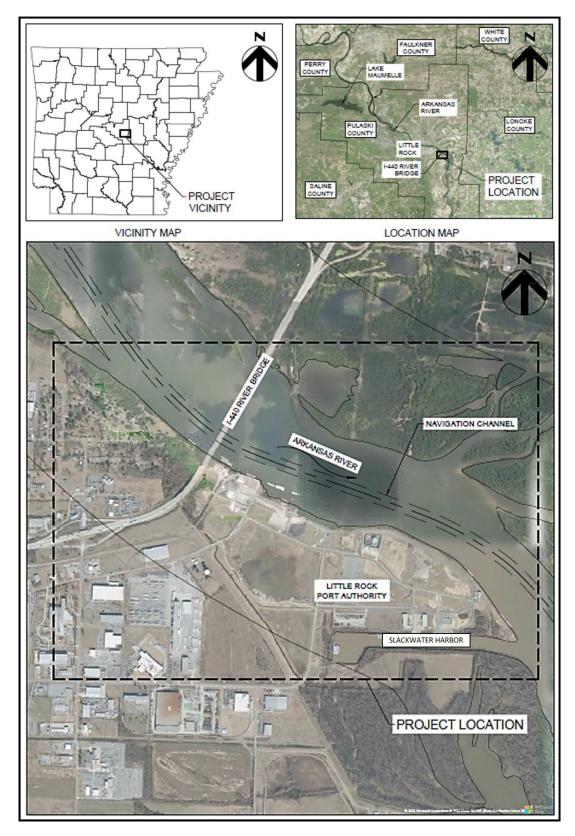


Figure 1. Project Location Map.

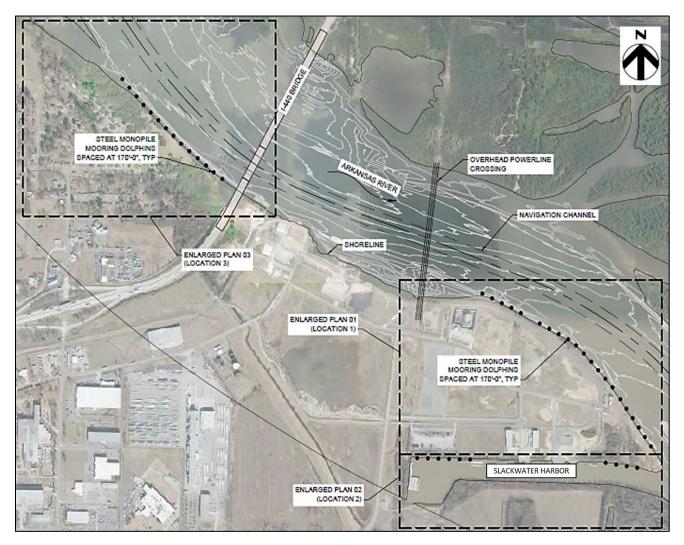


Figure 2. Project Layout Map.

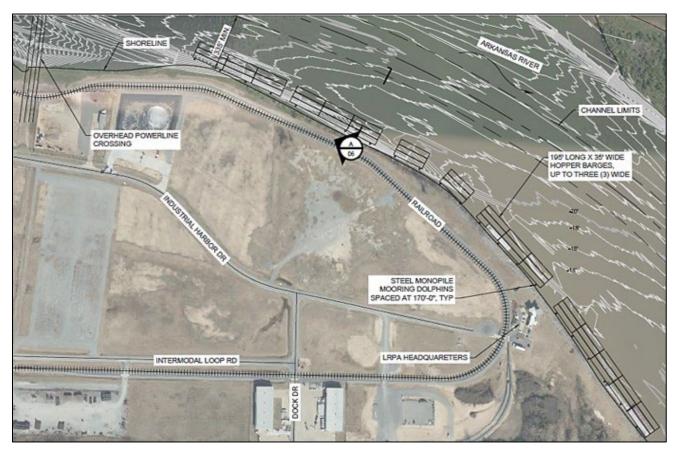


Figure 3. Location 1 Plan Map.

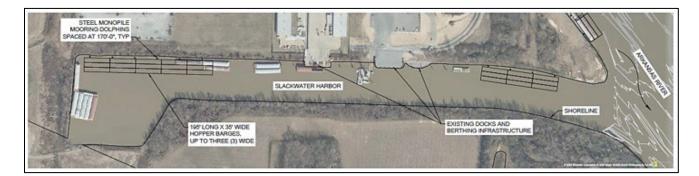


Figure 4. Location 2 Plan Map.

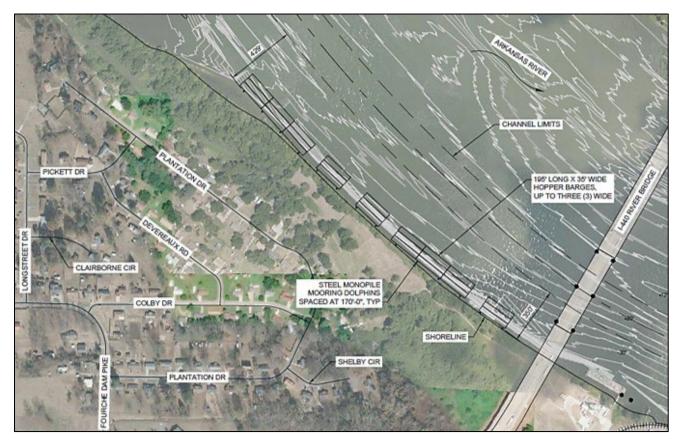


Figure 5. Location 3 Plan Map.

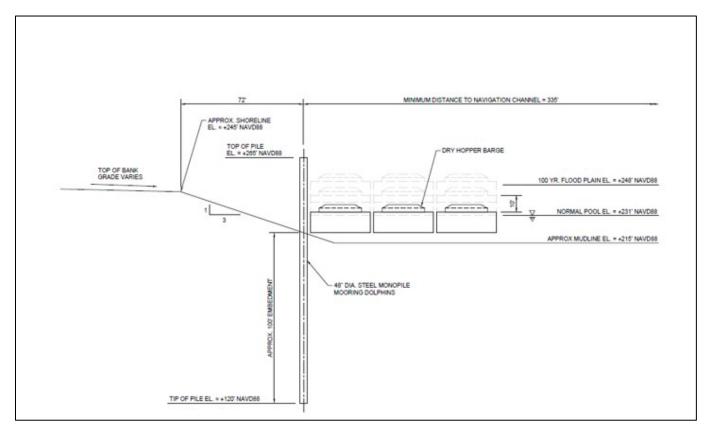


Figure 6. Typical Mooring Dolphin Cross Section.



Figure 7. POLR Transportation Network (POLR, 2022).



B

Appendix B – Supplemental Biological Resources



United States Department of the Interior

FISH AND WILDLIFE SERVICE Arkansas Ecological Services Field Office 110 South Amity Suite 300 Conway, AR 72032-8975 Phone: (501) 513-4470 Fax: (501) 513-4480 http://www.fws.gov/arkansas-es



In Reply Refer To: Project Code: 2022-0012363 Project Name: Port of Little Rock February 24, 2022

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 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.

Attachment(s):

Official Species List

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:

Arkansas Ecological Services Field Office

110 South Amity Suite 300 Conway, AR 72032-8975 (501) 513-4470

Project Summary

Project Code:2022-0012363Event Code:NoneProject Name:Port of Little RockProject Type:Boatlift/Boathouse/Dock/Pier/Piles - New ConstructionProject Description:New Mooring dolphinsProject Location:Fort of Little Rock

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@34.71877280550004,-92.17413590716245,14z</u>



Counties: Pulaski County, Arkansas

Endangered Species Act Species

There is a total of 4 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.

Birds

NAME	STATUS
Eastern Black Rail <i>Laterallus jamaicensis ssp. jamaicensis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10477</u>	Threatened
 Piping Plover Charadrius melodus 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. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u> 	Threatened
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Insects NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	Candidate

Critical habitats

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

IPaC User Contact Information

Name:Caroline RyciukAddress:1201 Market St.City:ChattanoogaState:TNZip:37402Emailcaroline.ryciuk@hdrinc.comPhone:2246599695

Endangered Species Act Review

EVALUATING: CONSULTATION ON EFFECTS OF PROPOSED PROJECTS TO THREATENED AND ENDANGERED SPECIES IN ARKANSAS

Qualification interview

The following questions will determine whether this key applies to your project and provide guidance to help you make appropriate determinations for the species covered by this key.

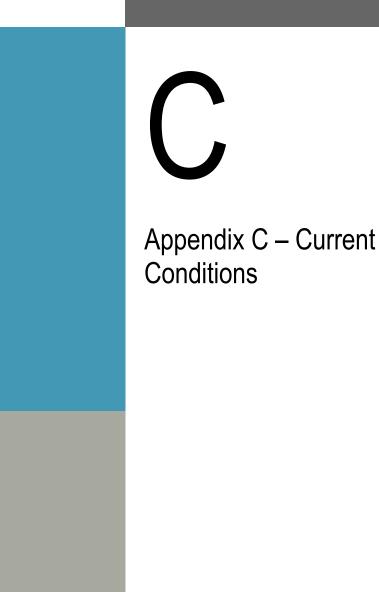
1. Have you made an effects determination of "no effect" for all species in the area 0.9 of the project? A "no effect" determination means the project will have no beneficial effect, no short-term adverse effects, and no long-term adverse effects on any of the species on the IPaC-generated species list for the proposed project or those species habitat. A project with effects that cannot be meaningfully measured, detected or evaluated, effects that are extremely unlikely to occur, or entirely beneficial effects should not have a "no effect" determination. (If unsure, select "No").



EVALUATION PROGRESS

When the action agency determines its proposed action will not affect a listed species, there is no need to coordinate further with the Service. If listed species will not be directly or indirectly exposed to the proposed action or any resulting environmental changes, an action agency may conclude "no effect" and document the finding, thus completing the section 7 process. For example, if the species or its suitable habitat is not present in the action area and the project does not otherwise present any effects to the species, action agencies typically conclude and document "No Effect - species not present" as their finding."

As documentation of this "no effect" determination print this screen, add it to your project files, and select "exit review" on the progress ribbon to return to the project home page.



List of Resource Reports

- Custom Soil Resource Report for Pulaski County, Arkansas, Location 1
- Custom Soil Resource Report for Pulaski County, Arkansas, Location 2
- Custom Soil Resource Report for Pulaski County, Arkansas, Location 3
- USGS 2018 Long-term National Seismic Hazard Map
- EPA Hazardous Waste Preliminary Project Review Report
- USFWS National Wetlands Inventory Map
- Representative Site Photos
- FEMA Flood Insurance Rate Map Panel #05119C0483
- FEMA Flood Insurance Rate Map Panel #05119C0481
- NPS National Register of Historic Places Map



United States Department of Agriculture

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 **Pulaski County**, **Arkansas**

Location 1



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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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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

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.

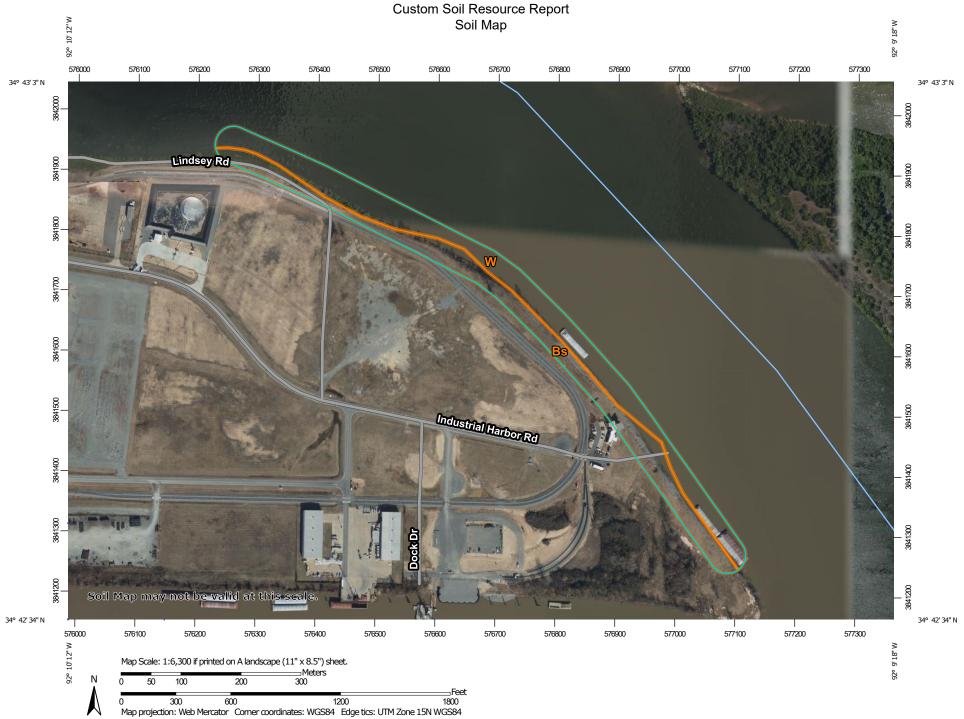
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree 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

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)	MAP INFORMATION	
Area of In	terest (AOI)	000	Spoil Area	The soil surveys that comprise your AOI were mapped at	
	Area of Interest (AOI)	۵	Stony Spot	1:20,000.	
Soils	Soil Man Unit Dalumana	۵	Very Stony Spot	Warning: Soil Map may not be valid at this scale.	
	Soil Map Unit Polygons	Ŷ	Wet Spot		
~	Soil Map Unit Lines	Δ	Other	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil	
	Soil Map Unit Points		Special Line Features	line placement. The maps do not show the small areas of	
Special	Special Point Features Blowout		atures	contrasting soils that could have been shown at a more detailed scale.	
× ×	Borrow Pit	\sim	Streams and Canals		
凶 ※	Clay Spot	Transport	tation Rails	Please rely on the bar scale on each map sheet for map measurements.	
0	Closed Depression	~	Interstate Highways		
X	Gravel Pit	~	US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:	
	Gravelly Spot	~	Major Roads	Coordinate System: Web Mercator (EPSG:3857)	
0	Landfill	~	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator	
Ň.	Lava Flow			projection, which preserves direction and shape but distorts	
-14 -14	Marsh or swamp	Background Aerial Photography		distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more	
R	Mine or Quarry			accurate calculations of distance or area are required.	
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data as	
0	Perennial Water			of the version date(s) listed below.	
\sim	Rock Outcrop			Soil Survey Area: Pulaski County, Arkansas	
+	Saline Spot			Survey Area Data: Version 18, Sep 13, 2021	
0 . 0 0 0	Sandy Spot			Soil map units are labeled (as space allows) for map scales	
=	Severely Eroded Spot	1:50,000 or larger.		1:50,000 or larger.	
\$	Sinkhole			Date(s) aerial images were photographed: Jun 29, 2018—Dec	
>	Slide or Slip			18, 2019	
ø	Sodic Spot			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
Bs	Bruno fine sandy loam	7.7	44.8%
W	Water	9.5	55.2%
Totals for Area of Interest		17.2	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 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.

Pulaski County, Arkansas

Bs—Bruno fine sandy loam

Map Unit Setting

National map unit symbol: m04g Elevation: 50 to 250 feet Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Bruno and similar soils: 90 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bruno

Setting

Landform: Natural levees Down-slope shape: Convex Across-slope shape: Convex Parent material: Sandy alluvium

Typical profile

A - 0 to 6 inches: sandy loam C - 6 to 72 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s Hydrologic Soil Group: A Ecological site: F131BY002AR - Sandy Flood Plain Hydric soil rating: No

Minor Components

Aquents

Percent of map unit: 10 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Convex Hydric soil rating: Yes

W—Water

Map Unit Setting

National map unit symbol: m05y Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

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United States Department of Agriculture

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 **Pulaski County**, **Arkansas**

Location 2



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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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

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.

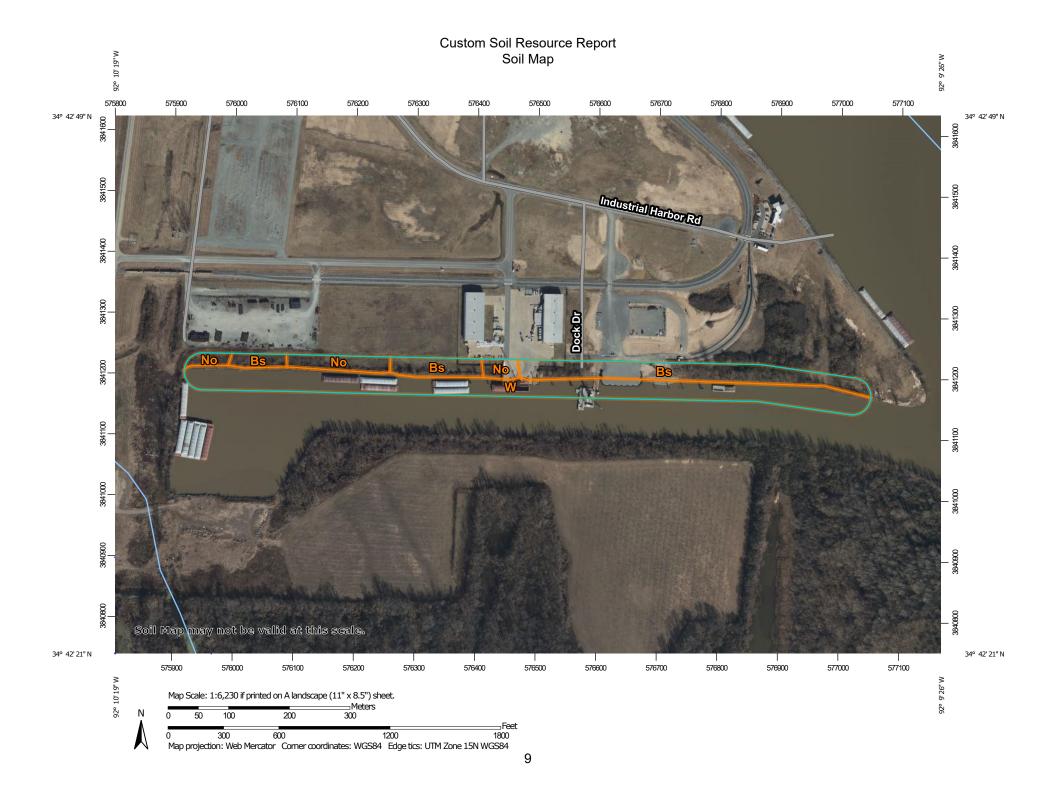
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree 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

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)	MAP INFORMATION	
Area of In	Area of Interest (AOI)		Spoil Area	The soil surveys that comprise your AOI were mapped at	
	Area of Interest (AOI)	۵	Stony Spot	1:20,000.	
Soils	Coil Man Unit Dolygona	0	Very Stony Spot	Warning: Soil Map may not be valid at this scale.	
	Soil Map Unit Polygons	Ŷ	Wet Spot		
~	Soil Map Unit Lines	Δ	Other	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil	
	Soil Map Unit Points		Special Line Features	line placement. The maps do not show the small areas of	
Special	Point Features Blowout	Water Fea	atures	contrasting soils that could have been shown at a more detailed scale.	
×	Borrow Pit	\sim	Streams and Canals		
<u>م</u>	Clay Spot	Transport	tation Rails	Please rely on the bar scale on each map sheet for map measurements.	
0	Closed Depression	~	Interstate Highways		
X	Gravel Pit	~	US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:	
****	Gravelly Spot	~	Major Roads	Coordinate System: Web Mercator (EPSG:3857)	
Ø	Landfill	~	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator	
Ă.	Lava Flow	Backgrou		projection, which preserves direction and shape but distorts	
-14 -14	Marsh or swamp	Backgrou	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more	
Ŕ	Mine or Quarry			accurate calculations of distance or area are required.	
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data as	
0	Perennial Water			of the version date(s) listed below.	
\sim	Rock Outcrop			Soil Survey Area: Pulaski County, Arkansas	
+	Saline Spot			Survey Area Data: Version 18, Sep 13, 2021	
0 0 0 0	Sandy Spot			Soil map units are labeled (as space allows) for map scales	
-	Severely Eroded Spot			1:50,000 or larger.	
0	Sinkhole			Date(s) aerial images were photographed: Jun 29, 2018—Dec	
>	Slide or Slip			18, 2019	
ø	Sodic Spot			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
Bs	Bruno fine sandy loam	5.7	33.9%
No	Norwood silty clay loam	1.8	10.9%
W	Water	9.3	55.2%
Totals for Area of Interest		16.9	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 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.

Pulaski County, Arkansas

Bs—Bruno fine sandy loam

Map Unit Setting

National map unit symbol: m04g Elevation: 50 to 250 feet Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Bruno and similar soils: 90 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bruno

Setting

Landform: Natural levees Down-slope shape: Convex Across-slope shape: Convex Parent material: Sandy alluvium

Typical profile

A - 0 to 6 inches: sandy loam C - 6 to 72 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s Hydrologic Soil Group: A Ecological site: F131BY002AR - Sandy Flood Plain Hydric soil rating: No

Minor Components

Aquents

Percent of map unit: 10 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Convex Hydric soil rating: Yes

No-Norwood silty clay loam

Map Unit Setting

National map unit symbol: m058 Elevation: 20 to 300 feet Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: All areas are prime farmland

Map Unit Composition

Norwood and similar soils: 90 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Norwood

Setting

Landform: Natural levees Down-slope shape: Convex Across-slope shape: Convex Parent material: Loamy alluvium

Typical profile

A - 0 to 8 inches: silty clay loam C1 - 8 to 35 inches: silty clay loam C2 - 35 to 57 inches: silt loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneRare
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent
Available water supply, 0 to 60 inches: High (about 10.9 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 1 Hydrologic Soil Group: B Ecological site: F131BY003AR - Loamy Flood Plain Hydric soil rating: No

Minor Components

Aquents

Percent of map unit: 10 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Convex Hydric soil rating: Yes

W-Water

Map Unit Setting

National map unit symbol: m05y Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent Estimates are based on observations, descriptions, and transects of the mapunit.

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United States Department of Agriculture

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 **Pulaski County**, **Arkansas**

Location 3



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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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

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

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		MAP INFORMATION
Area of Interest (AOI)	ea	poil Area	The soil surveys that comprise your AOI were mapped at 1:20,000.
Area of Inte	est (AOI) 👌 S	tony Spot	1.20,000.
Soils Soil Map Ur	it Polygons	ery Stony Spot	Warning: Soil Map may not be valid at this scale.
🚙 Soil Map Ur	it Lines 🦞 🛛 🕅	/et Spot	Enlargement of maps beyond the scale of mapping can cause
g Soil Map Ur		ther	misunderstanding of the detail of mapping and accuracy of soil
Special Point Feature		pecial Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
Blowout	Water Feature		scale.
Borrow Pit		treams and Canals	
🛁 Clay Spot	Transportatio	n ails	Please rely on the bar scale on each map sheet for map measurements.
Closed Dep	ression		measurements.
Gravel Pit		iterstate Highways S Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
Gravelly Spe	ot	lajor Roads	Coordinate System: Web Mercator (EPSG:3857)
🔕 Landfill		ocal Roads	Maps from the Web Soil Survey are based on the Web Mercator
Lava Flow	Background		projection, which preserves direction and shape but distorts
Marsh or sw	-	erial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
Mine or Qua	rry		accurate calculations of distance or area are required.
Miscellaneo	us Water		This product is generated from the USDA-NRCS certified data as
Perennial W	ater		of the version date(s) listed below.
Rock Outcro	p		Soil Survey Area: Pulaski County, Arkansas
Saline Spot			Survey Area Data: Version 18, Sep 13, 2021
Sandy Spot			Soil map units are labeled (as space allows) for map scales
Severely Er	oded Spot		1:50,000 or larger.
Sinkhole			Data(a) parial images were photographed: Jul 9, 2015 Dec 19
Slide or Slip			Date(s) aerial images were photographed: Jul 8, 2015—Dec 18, 2019
Sodic Spot			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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Bu	Bruno-Urban land complex	4.8	44.8%
W	Water	5.9	55.2%
Totals for Area of Interest		10.7	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 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.

Pulaski County, Arkansas

Bu—Bruno-Urban land complex

Map Unit Setting

National map unit symbol: m04h Elevation: 50 to 250 feet Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Bruno and similar soils: 60 percent Urban land: 30 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bruno

Setting

Landform: Natural levees Down-slope shape: Convex Across-slope shape: Convex Parent material: Sandy alluvium

Typical profile

A - 0 to 6 inches: sandy loam C - 6 to 72 inches: loamy fine sand

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s Hydrologic Soil Group: A Ecological site: F131BY002AR - Sandy Flood Plain Hydric soil rating: No

Description of Urban Land

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D Hydric soil rating: No

Minor Components

Aquents

Percent of map unit: 10 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Convex Hydric soil rating: Yes

W-Water

Map Unit Setting

National map unit symbol: m05y Mean annual precipitation: 43 to 58 inches Mean annual air temperature: 50 to 72 degrees F Frost-free period: 200 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

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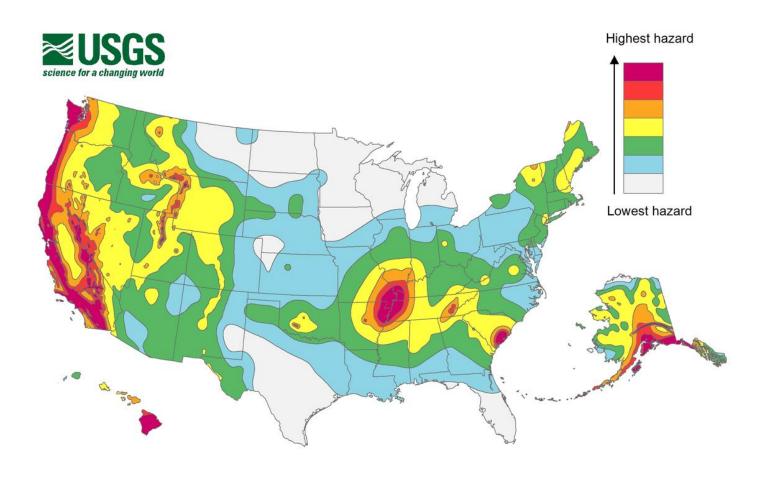
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IMAGES ILLUSTRATIONS

2018 Long-term National Seismic Hazard Map

By Earthquake Hazards



Thumbnail Medium Original

Detailed Description

Earthquake hazard map showing peak ground accelerations having a 2 percent probability of being exceeded in 50 years, for a firm rock site. The map is based on the

most recent USGS models for the conterminous U.S. (2018), Hawaii (1998), and Alaska (2007). The models are based on seismicity and fault-slip rates, and take into account the frequency of earthquakes of various magnitudes. Locally, the hazard may be greater than shown, because site geology may amplify ground motions.

Sources/Usage

Public Domain.

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Natural Hazards

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U.S. Department of the Interior

Contact USGS

1-888-ASK-USGS answers.usgs.gov



Area of Interest (AOI) Information

Area : 4,986.62 acres

Mar 10 2022 13:16:35 Central Standard Time



EPA - FRS trainest - NPOES

EPA - FRS Interest - NPOES (Major)

- EPA FRS interest Al Facilities
 EPA FRS interests AGRES
 EPA FRS interests AGRES
- EPA-FRS Immus AIR MAJOR
- EPA FRS Inquest EIS (Emasion Inventory System)
- EPA NPDES Facilities that Discharge to Water Port
- EPA FRS Interest ICIS (Integrated Compliance Information System)
 EPA FRS Interest NCDB (National Compliance Database)

© 2022 Microsoft Corporation © 2022 Maxar IDCNES (2022) Distribution Antrus DS

8.0

1.6 km

1

0.4

0

Summary

Name	Count	Area(acres)	Length(ft)
EPA - FRS Interest - All Facilities	173	N/A	N/A
EPA - FRS Interests - ACRES	0	N/A	N/A
EPA-FRS Interests - AIR	5	N/A	N/A
EPA - FRS Interest - AIR AQS	0	N/A	N/A
EPA - FRS Interest - AIR MAJOR	4	N/A	N/A
EPA - FRS Interest - BIA (Bureau of Indian Affairs)	0	N/A	N/A
EPA - FRS Interest - BRAC (Base Realignment and Closure)	0	N/A	N/A
EPA - FRS Interest - CAMDBS (Clean Air Markets Division Business System)	0	N/A	N/A
EPA - FRS Interest - EIS (Emission Inventory System)	3	N/A	N/A
EPA - FRS Interest - ICIS (Integrated Compliance Information System)	6	N/A	N/A
EPA - FRS Interest - NCDB (National Compliance Database)	0	N/A	N/A
EPA - FRS Interest - NPDES	62	N/A	N/A
EPA - FRS Interest - NPDES (Major)	2	N/A	N/A
EPA - FRS Interest - RADINFO (Radiation Information System)	0	N/A	N/A
EPA - FRS Interest - RBLC (Reasonably Available Control Technology)	0	N/A	N/A
EPA - FRS Interest - RCRA (Resource Conservation and Recovery Act Information System)	14	N/A	N/A
EPA - FRS Interest - RCRA (Active)	8	N/A	N/A
EPA - FRS Interest - RCRA (Inactive)	6	N/A	N/A
EPA - FRS Interest - RCRA (Large Quantity Generator)	1	N/A	N/A
EPA - FRS Interest - RCRA (Transportation)	0	N/A	N/A
EPA - FRS Interest - RCRA (Treatment, Storage, Disposal)	0	N/A	N/A
EPA - FRS Interest - SEMS (Superfund Enterprise Management System)	0	N/A	N/A
EPA - FRS Interest - TRI (Toxic Release Inventory System)	5	N/A	N/A
Geohazard - Landslide	0	N/A	N/A
Geohazard - Rock Slope	0	N/A	N/A
305B_NP21 - Assessed Waters Line	6	N/A	36,685.12
NHD Watercourse Flow Line	8	N/A	46,826.99
Critical Habitat - Linear Features - Proposed	0	0	N/A

Critical Habitat - Linear Features - Final	0	0	N/A
Critical Habitat - Polygon Features - Proposed	0	N/A	0
Critical Habitat - Polygon Features - Final	0	N/A	0
OH Boundary - Township	0	0	N/A
Ohio Boundary	0	0	N/A
OH MS4 Urbanized Boundary	0	0	N/A
OH Boundary - ODOT District	0	0	N/A
Superfund National Priorities List (NPL) Sites with Status Information	0	N/A	N/A
MS4 Regulated Areas	0	0	N/A
Beneficial_Use - Aquatic Life Use Designations	0	N/A	0
Beneficial_Use - Antidegredation Tiers	0	N/A	0
Beneficial_Use - One Mile Buffer of Streams with Antidegredation Tiers	0	0	N/A
ONDR - Mussel Stream Segment	0	N/A	0
ODNR Land	0	0	N/A
Watershed Catchment	11	4,986.62	N/A
ODOT - Landfill Footprint	0	0	N/A
NHD NP21 Waterbody	5	1,482.38	N/A
ODOT - Scenic River 1000' Buffer	0	0	N/A
WQ_Cert_NationwidePermits_40 1 - 401 Water Quality Certification Nationwide Permit Eligibility	0	0	N/A
USA Federal Lands	0	0	N/A
Subwatershed (HUC12)	3	4,986.62	N/A
Flood Hazard Zones	67	4,986.62	N/A
USA Wetlands -NWI	118	1,992.89	N/A
FWS_HQ_BA_Ecoregions	2	4,986.62	N/A
USACOE - Regulatory Boundary	1	4,986.62	N/A
USACOE - Regional Supplement	1	4,986.62	N/A
Boundary And Region (NOAA) - Coastal Zone Management Act	0	0	N/A

EPA - FRS Interest - All Facilities

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
2	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
3	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
4	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
5	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
6	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
7	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
8	110025122613	RADIUM PETROLEUM	8401 LINDSEY RD	LITTLE ROCK	PULASKI
9	110010651106	ROUTH WRECKER SERVICE	6403 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
10	110069291965	PORT OF LITTLE ROCK LPG TERMINAL	9700 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
11	110010651106	ROUTH WRECKER SERVICE	6403 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
12	110069343197	NGL PIPE STORAGE FACILITY	1/2 MILE FROM LINDSEY ROAD AND INDUSTRIAL HARBOR	LITTLE ROCK	PULASKI
13	110069343197	NGL PIPE STORAGE FACILITY	1/2 MILE FROM LINDSEY ROAD AND INDUSTRIAL HARBOR	LITTLE ROCK	PULASKI
14	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
15	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
16	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
17	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
18	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
19	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
20	110025029653	LITTLE ROCK PORT AUTHORITY	7500 LINDSEY ROAD	LITTLE ROCK	PULASKI
21	110025086840	FOURCHE DAM GARAGE	6215 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
22	110025070875	NATURAL GAS PIPELINE/LR-I-440	WEST OF I-440 BRIDGE	LITTLE ROCK	PULASKI
23	110025043254	MAXMART #12	8701 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
24	110069258644	NGL PIPE STORAGE FACILITY	.5M FROM LINDSAY RD AND	LITTLE ROCK	PULASKI
25	110024810622	RINGER CONTAINER	SLACKWATER DR. & FRAZER PARK	LITTLE ROCK	PULASKI
26	110024810622	RINGER CONTAINER	SLACKWATER DR. & FRAZER PARK	LITTLE ROCK	PULASKI
27	110055092484	WELSPUN TUBULAR, LLC -ERW FACILITY	8200 FRAZIER PIKE RD	LITTLE ROCK	PULASKI
28	110055092484	WELSPUN TUBULAR, LLC -ERW FACILITY	8200 FRAZIER PIKE RD	LITTLE ROCK	PULASKI
29	110025019520	AFCO METALS, INC.	7701 LINDSEY ROAD P. O. BOX 23	LITTLE ROCK	PULASKI

30	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
31	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
32	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
33	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
34	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
35	110070700221	FOURCHE CREEK WASTEWATER	No Data	No Data	PULASKI
36	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
37	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
38	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
39	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
40	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
41	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
42	110070220546	LRPA GROWTH INITIATIVE-RAIL STORAGE, HARBOR TRACK SPUR	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
43	110070220546	LRPA GROWTH INITIATIVE-RAIL STORAGE, HARBOR TRACK SPUR	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
44	110025001343	KINDER MORGAN OUTFALL #0268	S SIDE OF AR RIVER	LITTLE ROCK	PULASKI
45	110064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
46	110064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
47	110064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
48	110070264029	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
49	110070264029	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
50	110071080606	ENTEGRITY SOLAR CALS	6617 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
51	110071080606	ENTEGRITY SOLAR CALS	6617 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
52	110025076441	NATURAL GAS PIPELINE CO.	I-440 TO FOUCHE DAM PIKE TO	LITTLE ROCK	PULASKI
53	110071080606	ENTEGRITY SOLAR CALS	6617 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI

54	110043762675	LOGISTIC SERVICES, INCSLACK WATER	3920 DOCK DR	LITTLE ROCK	PULASKI
55	110043762675	HARBOR LOGISTIC SERVICES, INCSLACK WATER	3920 DOCK DR	LITTLE ROCK	PULASKI
56	110067232649	HARBOR WELSPUN L YARD CONSTRUCTION	9301 FRAZIER PIKE ROAD	LITTLE ROCK	PULASKI
57	110067232649	WELSPUN L YARD CONSTRUCTION	9301 FRAZIER PIKE ROAD	LITTLE ROCK	PULASKI
58	110025142343	GREEN WAY BIO ENERGY, LLC	No Data	LITTLE ROCK	PULASKI
59	110025111260	O NEAL STEEL, INC.	8100 FRAZIER PIKE	LITTLE ROCK	PULASKI
60	110025086868	FOURCHE DAM PHILLIPS 66 #469	8824 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
61	110070686698	USALCO LITTLE ROCK PLANT, LLC	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
62	110070686698	USALCO LITTLE ROCK PLANT, LLC	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
63	110070686698	USALCO LITTLE ROCK PLANT, LLC	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
64	110070686698	USALCO LITTLE ROCK PLANT, LLC	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
65	110025022865	SIMS METAL MANAGEMENT	9900 INDUS.HARBOR DR.	LITTLE ROCK	PULASKI
66	110025022865	SIMS METAL MANAGEMENT	9900 INDUS.HARBOR DR.	LITTLE ROCK	PULASKI
67	110025022865	SIMS METAL MANAGEMENT	9900 INDUS.HARBOR DR.	LITTLE ROCK	PULASKI
68	110070844137	CITY OF LITTLE ROCK	9000 FURCHE DAM PIKE	LITTLE ROCK	PULASKI
69	110070131893	RING CONTAINER TECHNOLOGIES	9000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
70	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
71	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
72	110070844137	CITY OF LITTLE ROCK	9000 FURCHE DAM PIKE	LITTLE ROCK	PULASKI
73	110070844137	CITY OF LITTLE ROCK	9000 FURCHE DAM PIKE	LITTLE ROCK	PULASKI
74	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
75	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
76	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
77	110025093707	NORTH AMERICAN METAL	8423 FRAZIER PIKE	LITTLE ROCK	PULASKI
78	110033002300	CASTLE EQUIPMENT	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
79	110003401480	MHC KENWORTH	8001 EAST PORT DRIVE	LITTLE ROCK	PULASKI
80	110003401480	MHC KENWORTH	8001 EAST PORT DRIVE	LITTLE ROCK	PULASKI

		NATURAL GAS	NW OF LONGSTREET		
81	110039086903	PIPELINE/47 GC #3	DR ON	LITTLE ROCK	PULASKI
82	110028130350	LITTLE ROCK, CITY OF - FOURCHE WWTP (AR0040177)	9500 BIRDWOOD DR.	LITTLE ROCK	PULASKI
83	110028130350	LITTLE ROCK, CITY OF - FOURCHE WWTP (AR0040177)	9500 BIRDWOOD DR.	LITTLE ROCK	PULASKI
84	110041312102	WELSPUN PIPES	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
85	110015593623	SSX LC	9500 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
86	110015593623	SSX LC	9500 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
87	110070310425	ELITE WORKFORCE MANAGEMENT	8200 FRAZIER PIKE	LITTLE ROCK	No Data
88	110062019435	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
89	110032998362	ARK KENWORTH	8001 E PORT DR	LITTLE ROCK	PULASKI
90	110025011895	CPC INTERNATIONAL	8500 FRAZIER PIKE	LITTLE ROCK	PULASKI
91	110040763527	NATURAL GAS PIPELINE/#2 MARINE	1M WEST OF I-440 & ARK RIVER	LITTLE ROCK	PULASKI
92	110024571765	AHTD-JOB NO. 060985	RICHLAND DR. & PLANTATION DR.	LITTLE ROCK	PULASKI
93	110024571765	AHTD-JOB NO. 060985	RICHLAND DR. & PLANTATION DR.	LITTLE ROCK	PULASKI
94	110003403567	PHILLIPS PETROLEUM CO SS #2770	8601 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
95	110012712109	LEXICON, INC.	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
96	110012712109	LEXICON, INC.	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
97	110012712109	LEXICON, INC.	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
98	110003403567	PHILLIPS PETROLEUM CO SS #2770	8601 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
99	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
100	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
101	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
102	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
103	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
104	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
105	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
106	110043498587	DELTA PLASTICS OF THE SOUTH LLC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI
107	110024974107	CRACKERBOX #37	8921 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
108	110024978568	BABCOCK & WILCOX ST COMPANY	8900 FOURCHEDAM PIKE	LITTLE ROCK	PULASKI
109	110043498587	DELTA PLASTICS OF THE SOUTH LLC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI
110	110043498587	DELTA PLASTICS OF THE SOUTH LLC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI

111	110025001548	KINDER MORGAN OUTFALL #285	N SIDE OF AR RIVER	NORTH LITTLE ROCK	PULASKI
112	110025012457	NORWOOD DISPOSAL	RT 5 BOX 576AA	LITTLE ROCK	PULASKI
113	110010745818	VINYL BUILDING PRODUCTS INC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI
114	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
115	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
116	110024975605	LOGISTIC SERVICES, INCARK RIVER TERMINAL	9001 LINDSEY RD.	LITTLE ROCK	PULASKI
117	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
118	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
119	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
120	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
121	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
122	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
123	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
124	110024975605	LOGISTIC SERVICES, INCARK RIVER TERMINAL	9001 LINDSEY RD.	LITTLE ROCK	PULASKI
125	110024975605	LOGISTIC SERVICES, INCARK RIVER TERMINAL	9001 LINDSEY RD.	LITTLE ROCK	PULASKI
126	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
127	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
128	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
129	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
130	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
131	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
132	110025073480	ARK HWY DEPT/JOB #060985	FOURCHE DAM PIKE FROM RICHLAND	LITTLE ROCK	PULASKI
133	110003396218	ERSHIGS INC	8915 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
134	110003396218	ERSHIGS INC	8915 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
135	110045397487	LARS RECYCLING	9600 INDUSTRIAL HARBOR RD	LITTLE ROCK	PULASKI
136	110015673083	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI

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137	110045397487	LARS RECYCLING	9600 INDUSTRIAL HARBOR RD	LITTLE ROCK	PULASKI
138	110045397487	LARS RECYCLING	9600 INDUSTRIAL HARBOR RD	LITTLE ROCK	PULASKI
139	110015673083	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
140	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
141	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
142	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
143	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
144	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
145	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
146	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
147	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
148	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
149	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
150	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
151	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
152	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
153	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
154	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
155	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
156	110003391838	BERENDSEN FLUID POWER INC	7600 FLUID DR	LITTLE ROCK	PULASKI
157	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI

158	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
159	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
160	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
161	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
162	110003391838	BERENDSEN FLUID POWER INC	7600 FLUID DR	LITTLE ROCK	PULASKI
163	110070214403	RING CONTAINER TECHNOLOGIES - LITTLE ROCK	9000 FRAZIER PIKE	LITTLE ROCK	PULASKI
164	110070214403	RING CONTAINER TECHNOLOGIES - LITTLE ROCK	9000 FRAZIER PIKE	LITTLE ROCK	PULASKI
165	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI
166	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI
167	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI
168	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI
169	110070290281	WELSPUN TUBULAR, LLC	8200 FRAZIER PIKE	LITTLE ROCK	No Data
170	110070290281	WELSPUN TUBULAR, LLC	8200 FRAZIER PIKE	LITTLE ROCK	No Data
171	110070290281	WELSPUN TUBULAR, LLC	8200 FRAZIER PIKE	LITTLE ROCK	No Data
172	110070290281	WELSPUN TUBULAR, LLC	8200 FRAZIER PIKE	LITTLE ROCK	No Data
173	110025034558	LITTLE ROCK DISTRIBUTING	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
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#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72206	34.71	-92.18
2	05119	AR	72206	34.71	-92.18
3	05119	AR	72206	34.71	-92.18
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8	05119	AR	722060000	34.71	-92.18
9	05119	AR	722062744	34.72	-92.20
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13	AR119	AR	72206	34.71	-92.17
14	05119	AR	72206	34.71	-92.19
15	05119	AR	72206	34.71	-92.19
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19	05119	AR	72206	34.71	-92.19
20	00119	AR	722060000	34.71	-92.19
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22	05119	AR	72206	34.73	-92.19
23	05119	AR	72206	34.72	-92.19
24	05119	AR	72206	34.71	-92.17
25	AR119	AR	00000	34.71	-92.18
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28	AR119	AR	72206	34.70	-92.18
29	00119	AR	72203	34.71	-92.19
30	05119	AR	72206-3829	34.71	-92.19
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35	5119	AR	No Data	34.70	-92.17
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40	05119	AR	72117-9728	34.72	-92.16
41	05119	AR	72117-9728	34.72	-92.16
42	AR119	AR	72206	34.71	-92.17

81 82 83 84 85	05119 05119 05119 05119 05119 05119	AR AR AR AR	72206 72206 72206 72206-3879	34.70 34.70 34.71 34.72	-92.16 -92.16 -92.18 -92.17
82 83	05119 05119	AR AR	72206	34.70	-92.16
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80	05119	AR	72206	34.72	-92.19
79	05119	AR	72206	34.72	-92.19
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59	00119	AR	72203	34.71	-92.19
58	05119	AR	72206	34.72	-92.17
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52	05119	AR	72202	34.73	-92.19
51	05119	AR	72206	34.72	-92.20
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49	AR119	AR	72206	34.71	-92.19
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47	AR119	AR	72206	34.70	-92.16
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45	AR119	AR	72206	34.70	-92.16
44	00119	AR	72201	34.73	-92.19
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86	05119	AR	72206-3879	34.72	-92.17
87	No Data	AR	72206	34.71	-92.18
88	05119	AR	72206	34.71	-92.18
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91	05119	AR	72206	34.73	-92.19
92	AR119	AR	72201	34.72	-92.19
93	AR119	AR	72201	34.72	-92.19
94	05119	AR	72206	34.72	-92.19
95	05119	AR	72206	34.71	-92.19
96	05119	AR	72206	34.71	-92.19
97	05119	AR	72206	34.71	-92.19
98	05119	AR	72206	34.72	-92.19
99	05119	AR	72206-3835	34.71	-92.18
100	05119	AR	72206-3835	34.71	-92.18
101	05119	AR	72206-3835	34.71	-92.18
102	05119	AR	72206-3835	34.71	-92.18
103	05119	AR	72206-3835	34.71	-92.18
104	05119	AR	72206-3835	34.71	-92.18
105	05119	AR	72206-3835	34.71	-92.18
106	05119	AR	72206	34.71	-92.18
107	05119	AR	72206	34.71	-92.19
108	05119	AR	72206-3806	34.71	-92.19
109	05119	AR	72206	34.71	-92.18
110	05119	AR	72206	34.71	-92.18
111	00119	AR	72114	34.74	-92.19
112	00119	AR	72206	34.72	-92.19
113	05119	AR	722063863	34.70	-92.18
114	05119	AR	72206-3865	34.71	-92.18
115	05119	AR	72206-3865	34.71	-92.18
116	05119	AR	72206-3841	34.72	-92.18
117	05119	AR	72206-3865	34.71	-92.18
118	05119	AR	72206-3865	34.71	-92.18
119	05119	AR	72206-3865	34.71	-92.18
120	05119	AR	72206-3865	34.71	-92.18
121	05119	AR	72206-3865	34.71	-92.18
122	05119	AR	72206-3865	34.71	-92.18
123	05119	AR	72206-3865	34.71	-92.18
124	05119	AR	72206-3841	34.72	-92.18
125	05119	AR	72206-3841	34.72	-92.18
126	05119	AR	72206-3865	34.71	-92.18
127	05119	AR	72206-3865	34.71	-92.18
128	05119	AR	72206-3865	34.71	-92.18

129	05119	AR	72206-3865	34.71	-92.18
130	05119	AR	72206-3865	34.71	-92.18
131	05119	AR	72206-3865	34.71	-92.18
132	05119	AR	72201	34.72	-92.19
133	05119	AR	72206	34.71	-92.19
134	05119	AR	72206	34.71	-92.19
135	05119	AR	72206	34.72	-92.17
136	05119	AR	72206	34.71	-92.19
137	05119	AR	72206	34.72	-92.17
138	05119	AR	72206	34.72	-92.17
139	05119	AR	72206	34.71	-92.19
140	05119	AR	72206	34.71	-92.18
141	05119	AR	72206	34.71	-92.18
142	05119	AR	72206-3861	34.70	-92.16
143	05119	AR	72206-3861	34.70	-92.16
144	05119	AR	72206-3861	34.70	-92.16
145	05119	AR	72206-3861	34.70	-92.16
146	05119	AR	72206	34.71	-92.18
147	05119	AR	72206	34.71	-92.18
148	05119	AR	72206	34.71	-92.18
149	05119	AR	72206	34.71	-92.18
150	05119	AR	72206	34.71	-92.18
151	05119	AR	72206-3861	34.70	-92.16
152	05119	AR	72206-3861	34.70	-92.16
153	05119	AR	72206-3861	34.70	-92.16
154	05119	AR	72206-3861	34.70	-92.16
155	05119	AR	72206-3861	34.70	-92.16
156	05119	AR	72206	34.72	-92.19
157	05119	AR	72206-3861	34.70	-92.16
158	05119	AR	72206-3861	34.70	-92.16
159	05119	AR	72206-3861	34.70	-92.16
160	05119	AR	72206-3861	34.70	-92.16
161	05119	AR	72206	34.71	-92.18
162	05119	AR	72206	34.72	-92.19
163	AR119	AR	72206	34.70	-92.18
164	AR119	AR	72206	34.70	-92.18
165	05119	AR	72206	34.72	-92.18
166	05119	AR	72206	34.72	-92.18
167	05119	AR	72206	34.72	-92.18
168	05119	AR	72206	34.72	-92.18
169	No Data	AR	72206	34.71	-92.18
170	No Data	AR	72206	34.71	-92.18
171	No Data	AR	72206	34.71	-92.18

172	No Data	AR	72206	34.71	-92.18
173	00119	AR	72206	34.71	-92.19

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:14 AM
2	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	12/26/2002, 8:11 AM
3	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	12/26/2002, 8:11 AM
4	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:34 AM
5	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:37 AM
6	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	5/6/2020, 7:00 PM
7	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	6/24/2019, 7:00 PM
8	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 9:07 AM
9	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/12/1999, 7:00 PM
10	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	6/26/2016, 7:00 PM
11	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 9:11 AM
12	11110207	30	UNKNOWN	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:13 AM
13	11110207	30	UNKNOWN	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:13 AM
14	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	10/27/2021, 7:00 PM
15	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	11/22/2008, 9:53 AM
16	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/18/2015, 10:44 AM
17	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	5/6/2020, 7:00 PM
18	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 9:14 AM
19	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/30/2013, 3:30 AM
20	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:34 AM
21	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:53 AM
22	11110207	No Data	UNKNOWN	No Data	7/25/2006, 8:47 AM
23	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:38 AM
24	11110207	No Data	UNKNOWN	No Data	6/17/2016, 5:51 AM

25	11110207	9,999	No Data	No Data	11/22/2008, 10:42 AM
26	11110207	9,999	No Data	No Data	8/18/2015, 10:36 AM
27	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	3/4/2013, 6:04 AM
28	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:46 AM
29	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:32 AM
30	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:43 AM
31	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:39 AM
32	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/30/2011, 4:30 AM
33	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	1/11/2008, 1:45 AM
34	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	5/6/2020, 7:00 PM
35	11110207	No Data	No Data	No Data	4/1/2020, 7:00 PM
36	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	12/18/2008, 4:50 AM
37	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	7/25/2006, 8:52 AM
38	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	6/23/2009, 1:10 PM
39	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	6/19/2000, 6:36 PM
40	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/9/2014, 4:10 AM
41	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/23/2008, 10:53 AM
42	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM

40	4440007	50	ADDRESS MATCHING-	ENTRANCE POINT OF	
43	11110207	50	HOUSE NUMBER	A FACILITY OR STATION	4/8/2018, 7:00 PM
44	11110207	No Data	UNKNOWN	No Data	7/25/2006, 8:27 AM
45	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 9:48 AM
46	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/9/2015, 8:28 AM
47	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 9:59 AM
48	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	9/8/2018, 7:00 PM
49	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	9/8/2018, 7:00 PM
50	11110207	No Data	No Data	No Data	9/4/2021, 7:00 PM
51	11110207	No Data	No Data	No Data	9/4/2021, 7:00 PM
52	11110207	No Data	UNKNOWN	No Data	7/25/2006, 8:49 AM
53	11110207	No Data	No Data	No Data	9/3/2021, 7:00 PM
54	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/29/2011, 11:52 AM
55	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:28 AM
56	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/5/2016, 4:16 AM
57	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/5/2016, 4:16 AM
58	11110207	250	ADDRESS MATCHING- STREET CENTERLINE	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 9:26 AM
59	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 9:02 AM
60	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:53 AM
61	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	12/13/2020, 6:00 PM
62	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/10/2020, 6:00 PM
63	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/10/2020, 6:00 PM
64	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/11/2020, 6:00 PM
65	11110207	No Data	UNKNOWN	No Data	11/22/2008, 9:44 AM
66	11110207	No Data	UNKNOWN	No Data	8/18/2015, 10:44 AM
67	11110207	No Data	UNKNOWN	No Data	7/25/2006, 8:33 AM
68	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/8/2020, 7:00 PM

69	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	3/25/2018, 7:00 PM
70	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2018, 7:00 PM
71	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2018, 7:00 PM
72	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
73	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
74	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
75	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
76	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	3/25/2018, 7:00 PM
77	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:55 AM
78	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	1/11/2008, 1:56 AM
79	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	10/13/2020, 7:00 PM
30	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	5/6/2020, 7:00 PM
31	11110207	No Data	UNKNOWN	No Data	8/5/2009, 9:34 AM
32	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	2/16/2007, 10:15 AM
83	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:34 AM
34	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	6/14/2010, 5:55 AM
85	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2007, 6:59 AM
86	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	5/6/2020, 7:00 PM
87	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/27/2018, 7:00 PM
38	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	5/6/2020, 7:00 PM
39	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	1/11/2008, 1:49 AM
90	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:29 AM
91	11110207	No Data	UNKNOWN	No Data	4/27/2010, 10:41 AM

92	11110207	9,999	No Data	No Data	11/22/2008, 9:49 AM
93	11110207	9,999	No Data	No Data	8/18/2015, 10:22 AM
94	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	7/25/2006, 9:14 AM
95	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/24/2002, 9:24 PM
96	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:26 AM
97	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	11/9/2014, 4:10 AM
98	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/23/2007, 6:59 AM
99	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	10/13/2020, 7:00 PM
100	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/10/2018, 7:00 PM
101	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/10/2018, 7:00 PM
102	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	7/25/2006, 9:19 AM
103	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	4/5/2014, 4:03 AM
104	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/11/2017, 6:00 PM
105	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	11/22/2008, 10:40 AM
106	11110207	30	INTERPOLATION-MAP	ENTRANCE POINT OF A FACILITY OR STATION	12/3/2010, 5:56 AM
107	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:19 AM
108	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:20 AM

109	11110207	30	INTERPOLATION-MAP	ENTRANCE POINT OF A FACILITY OR STATION	5/26/2011, 9:16 PM
110	11110207	30	INTERPOLATION-MAP	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:41 AM
111	11110207	No Data	UNKNOWN	No Data	7/25/2006, 8:27 AM
112	11110207	500	ADDRESS MATCHING- BLOCK FACE	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:29 AM
113	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/14/1996, 7:00 PM
114	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/7/2021, 7:00 PM
115	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	3/10/2010, 9:40 AM
116	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:20 AM
117	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	1/19/2021, 6:00 PM
118	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:11 AM
119	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:11 AM
120	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	8/30/2013, 3:31 AM
121	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:34 AM
122	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:45 AM
123	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	3/22/2016, 7:00 PM
124	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	11/22/2008, 9:51 AM
125	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/18/2015, 10:45 AM
126	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	1/19/2021, 6:00 PM
127	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	3/22/2016, 7:00 PM
128	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	5/6/2020, 7:00 PM
129	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	12/31/2015, 8:34 AM

130	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	11/9/2014, 4:10 AM
131	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	9/24/2007, 9:38 AM
132	11110207	No Data	UNKNOWN	No Data	7/25/2006, 8:48 AM
133	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2007, 6:58 AM
134	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:44 AM
135	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	4/17/2012, 10:16 AM
136	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	OTHER	10/13/2020, 7:00 PM
137	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/1/2012, 7:02 AM
138	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/18/2015, 10:29 AM
139	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	OTHER	7/25/2006, 8:21 AM
140	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/19/2021, 6:00 PM
141	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	5/6/2020, 7:00 PM
142	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/5/2014, 4:03 AM
143	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:44 AM
144	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 9:53 AM
145	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 9:50 AM
146	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/8/2008, 4:52 PM
147	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	7/25/2006, 8:24 AM

148	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/23/2009, 12:41 PM
149	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/23/2009, 12:41 PM
150	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/17/2000, 6:26 AM
151	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	3/22/2010, 9:42 AM
152	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	1/19/2006, 5:51 AM
153	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/26/2006, 4:03 AM
154	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	6/18/2000, 1:23 PM
155	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	5/6/2020, 7:00 PM
156	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	12/18/2008, 4:50 AM
157	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/13/2020, 7:00 PM
158	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 10:36 AM
159	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:25 AM
160	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/29/2012, 5:29 AM
161	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	10/15/2017, 7:00 PM
162	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	1/11/2008, 1:46 AM
163	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM
164	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM
165	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:36 AM

166	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:37 AM
167	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 10:42 AM
168	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/25/2006, 8:27 AM
169	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/27/2018, 7:00 PM
170	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/27/2018, 7:00 PM
171	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/27/2018, 7:00 PM
172	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/27/2018, 7:00 PM
173	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	7/25/2006, 8:36 AM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	3/23/2014, 3:02 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000170 5101	6000419	PDS
2	10/7/2016, 1:30 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000170 5101	AR0000000511900419	AIR
3	10/1/2014, 6:25 AM	5/7/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000170 5101	0511900419	AIRS/AFS
4	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000170 5101	ARR00A620	NPDES
5	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000170 5101	ARR00A620	NPDES
6	No Data	12/30/2017, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000170 5101	ARD082572892	BR
7	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000170 5101	ARD082572892	RCRAINFO
8	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11002512 2613	6000620	PDS
9	6/9/2003, 7:00 PM	1/19/2000, 7:01 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110010651 106	25727	ICIS
10	No Data	8/24/2021, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006929 1965	100000232385	RMP
11	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110010651 106	6003387	PDS
12	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006934 3197	ARR155232	NPDES

13	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006934 3197	ARR155232	NPDES
14	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000045 2019	ARD112906987	RCRAINFO
15	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000045 2019	ARR00C043	NPDES
16	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000045 2019	ARR00C043	NPDES
17	No Data	12/30/2007, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000045 2019	ARD112906987	BR
18	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000045 2019	6001498	PDS
19	7/12/2016, 6:14 AM	6/28/2021, 10:00 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000045 2019	72206PRSPC8900F	TRIS
20	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002502 9653	6001100	PDS
21	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002508 6840	6003388	PDS
22	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002507 0875	6004064	PDS
23	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002504 3254	6003552	PDS
24	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006925 8644	6004756	PDS
25	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002481 0622	ARF610141	NPDES

26	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002481 0622	ARF610141	NPDES
27	9/3/2016, 7:48 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11005509 2484	ARR001112	NPDES
28	9/3/2016, 7:48 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility2 p_registry_id=11005509 2484	ARR001112	NPDES
29	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002501 9520	6002514	PDS
30	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 2052	ARR00A674	NPDES
31	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 2052	ARR00A674	NPDES
32	7/28/2016, 5:24 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 2052	AR0000362756	RCRAINFO
33	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 2052	6002270	PDS
34	4/14/2021, 10:31 AM	12/30/2019, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 2052	AR0000362756	BR
35	No Data	2/23/2019, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007070 0221	10050	EGRID
36	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	ARD006341705	RCRAINFO
37	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	6000110	PDS
38	4/30/2014, 6:07 AM	2/24/2014, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	0511900110	AIRS/AFS

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39	12/31/2015, 8:37 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000060 	72117SPRWDHWY16	TRIS
40	10/7/2016, 1:32 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	AR0000000511900110	AIR
41	9/3/2016, 8:00 AM	2/27/2001, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000060 6684	AR0001643	NPDES
42	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11007022 0546	ARR155906	NPDES
43	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007022 0546	ARR155906	NPDES
44	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002500 1343	6002343	PDS
45	2/10/2013, 1:11 AM	7/27/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006461 0791	AR0040177	NPDES
46	No Data	7/27/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006461 0791_	AR0040177	NPDES
47	8/9/2016, 2:58 AM	7/27/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006461 0791	AR0040177	NPDES
48	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007026 4029	ARR001735	NPDES
49	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007026 4029	ARR001735	NPDES
50	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11007108 0606	ARR157082	NPDES
51	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007108 0606	ARR157082	NPDES

1	1	1		
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002507 6441	6003950	PDS
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007108 0606	6006073	PDS
9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004376 2675	ARR000716	NPDES
9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11004376 2675	ARR000716	NPDES
9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006723 2649	ARR154912	NPDES
9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006723 2649	ARR154912	NPDES
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002514 2343	6001856	PDS
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110025111 _260	6003325	PDS
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002508 6868	6002872	PDS
No Data	12/13/2020, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007068 6698	TSCA10061801	TSCA
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007068 6698	ARR001857	NPDES
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007068 6698	ARR001857	NPDES
No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007068 6698	6004978	PDS
	No Data 9/3/2016, 8:01 AM 9/3/2016, 8:01 AM 9/3/2016, 7:56 AM 9/3/2016, 7:56 AM No Data No Data	No DataNo DataNo DataNo Data9/3/2016, 8:01 AMNo Data9/3/2016, 7:56 AMNo Data9/3/2016, 7:56 AMNo Data9/3/2016, 7:56 AMNo DataNo Data	No DataNo Datas. public/Dii query. detail disp. program. facility? p. registry.id=11002507. 6441No DataNo Datahttps://ofmpub.epa.gov/fr. disp. program. facility? p. registry.id=1100/7108 06069/3/2016, 8:01 AMNo Datahttps://ofmpub.epa.gov/fr. disp. program. facility? p. registry.id=1100/4376 p. 26759/3/2016, 8:01 AMNo Datahttps://ofmpub.epa.gov/fr. disp. program. facility? p. registry.id=1100/4376 p. 26759/3/2016, 8:01 AMNo Datahttps://ofmpub.epa.gov/fr. s. public/Dii query. detail disp. program. facility? p. registry.id=11004376 p. 26759/3/2016, 7:56 AMNo Datahttps://ofmpub.epa.gov/fr. s. public/Dii query. detail disp. program. facility? p. registry.id=11006723 2649No DataNo Datahttps://ofmpub.epa.gov/fr. s. public/Dii query. detail disp. program. facility? p. registry.id=11006723 2649No DataNo Datahttps://ofmpub.epa.gov/fr. s. public/Dii query. detail disp. program.facility? p. registry.id=11002514 2649No DataNo Datahttps://ofmpub.epa.gov/fr. s. public/Dii query. detail disp. program.facility? p. registry.id=11002514 2669No DataNo Da	No DataSubdit 2011, query, detail disp. program Lability? Detain6003950No DataDataDites/Infinueb.aca.gouff a.guebic201, query.detail disp. program Lability?6006073No DataDataDites/Infinueb.aca.gouff a.guebic201, query.detail disp. program Lability?60060739(3/2016, 8:01 AMNo DataDataDites/Infinueb.aca.gouff a.guebic201, query.detail disp. program Lability?ARR0007169(3/2016, 8:01 AMNo DataDataDites/Infinueb.aca.gouff a.guebic201, query.detail disp. program Lability?ARR0007169(3/2016, 7:56 AMNo DataDataDites/Infinueb.aca.gouff a.guebic201, query.detail disp. program Lability?ARR1549129(3/2016, 7:56 AMNo DataDataDataDataData9(3/2016, 7:56 AMNo DataDataDataSp. public201, query.detail disp. program Lability?ARR1549129(3/2016, 7:56 AMNo DataDataDataSp. public201, query.detail disp. program Lability?ARR1549129(3/2016, 7:56 AMNo DataDataDataSp. public201, query.detail disp. program Lability?ARR154912No DataNo DataDataSp. public201, query.detail disp. program Lability?ARR154912No DataNo DataDataDataDataColoram Lability?No DataNo DataDataDataDataColoram Lability?No DataNo DataDataDataDataColoram Lability?No DataNo DataDataDataDataA

65	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002502 2865	ARR00C196	NPDES
66	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002502 2865	ARR00C196	NPDES
67	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002502 2865	6001691	PDS
68	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007084 4137	6005012	PDS
69	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007013 1893	6004860	PDS
70	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	ARR155959	NPDES
71	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	ARR155959	NPDES
72	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007084 4137_	ARR156740	NPDES
73	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007084 4137	ARR156740	NPDES
74	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	ARR156735	NPDES
75	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007020 8600	ARR156735	NPDES
76	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	6004863	PDS
77	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002509 3707	6000383	PDS

78	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11003300 2300	6000973	PDS
79	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000340 1480	ARD983274077	RCRAINFO
80	No Data	12/30/2011, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000340 1480	ARD983274077	BR
81	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11003908 6903	6004340	PDS
82	No Data	6/2/2006, 12:04 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002813 0350	8063737	ICIS
83	7/23/2014, 8:22 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002813 0350	6001021	PDS
84	2/20/2013, 8:43 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004131 2102	6004385	PDS
85	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001559 3623	ARR000012070	RCRAINFO
86	No Data	12/30/2003, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001559 3623	ARR000012070	BR
87	No Data	9/11/2018, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11007031 0425	343414801	OSHA-OIS
88	No Data	12/30/2011, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006201 9435	ARD981585318	BR
89	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11003299 8362	6001366	PDS
90	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110025011 895	6002675	PDS

91	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11004076 3527	6004380	PDS
92	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002457 1765	ARR151082	NPDES
93	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002457 1765	ARR151082	NPDES
94	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000340 3567	6002157	PDS
95	4/30/2014, 6:18 AM	4/9/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11001271 2109	0511901801	AIRS/AFS
96	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11001271 2109	6001801	PDS
97	10/7/2016, 1:28 PM	5/1/2018, 6:36 AM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11001271 2109	AR0000000511901801	AIR
98	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000340 3567	ARD983286287	RCRAINFO
99	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000089 6512	ARD981585318	RCRAINFO
100	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000089 6512	OTAQREG10030600	OTAQREG
101	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000089 6512	OTAQREG10029260	OTAQREG
102	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000089 6512	6000471	PDS
103	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000089 6512	ARR000729	NPDES

104	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000089 6512	ARR000729	NPDES
105	8/9/2016, 2:58 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000089 6512	ARG340015	NPDES
106	12/10/2014, 7:06 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004349 8587	6004423	PDS
107	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002497 4107	6003899	PDS
108	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002497 8568	6000982	PDS
109	9/3/2016, 7:55 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004349 8587_	ARR000611	NPDES
110	9/3/2016, 7:55 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004349 8587	ARR000611	NPDES
111	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002500 1548	6002342	PDS
112	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002501 2457	6000605	PDS
113	6/9/2003, 7:00 PM	5/4/1998, 2:01 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11001074 5818	29419	ICIS
114	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	ARR000018010	RCRAINFO
115	4/30/2014, 6:24 AM	2/24/2014, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	0511904199	AIRS/AFS
116	10/6/2015, 2:17 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002497 5605	6001305	PDS

					1
117	No Data	8/25/2021, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	16157411	EIS
118	9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=110031104 622	ARR155256	NPDES
119	9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=110031104 622	ARR155256	NPDES
120	6/29/2016, 9:59 AM	6/26/2019, 10:16 AM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=110031104 622	72206LMGLS8FRAZ	TRIS
121	8/9/2016, 2:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=110031104 622	ARR000405	NPDES
122	8/9/2016, 2:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	ARR000405	NPDES
123	No Data	3/30/2016, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	CEDRI102035	CEDRI
124	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002497 5605	ARR00B850	NPDES
125	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002497 5605	ARR00B850	NPDES
126	No Data	8/25/2021, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	12579811	EIS
127	No Data	10/15/2020, 4:00 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	CEDRI102034	CEDRI
128	4/14/2021, 10:31 AM	12/30/2019, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	ARR000018010	BR
129	No Data	4/22/2021, 11:53 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	7220WLMGLS8FRAZ	TRIS

			https://ofmpub.opg.gov/fr		
130	10/7/2016, 1:31 PM	10/19/2020, 4:29 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	AR0000000511904199	AIR
131	1/11/2013, 4:34 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	6004199	PDS
132	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11002507 3480	6003947	PDS
133	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000339 6218	ARD086639804	RCRAINFO
134	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 6218	6000690	PDS
135	7/23/2014, 8:22 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004539 7487	6004524	PDS
136	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001567 3083	ARD983274325	RCRAINFO
137	9/3/2016, 7:54 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11004539 7487	ARR000957	NPDES
138	9/3/2016, 7:54 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11004539 7487	ARR000957	NPDES
139	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11001567 3083	6002021	PDS
140	No Data	8/25/2021, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004199 8657	1072911	EIS
141	No Data	12/30/2007, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004199 8657	ARD122185192	BR
142	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	ARR001276	NPDES

143	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	ARR001276	NPDES
144	8/1/2012, 6:48 AM	12/31/2020, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	ARL040177	NPDES
145	9/3/2016, 7:53 AM	12/31/2020, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	ARL040177	NPDES
146	3/28/2011, 12:03 PM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004199 8657	ARD122185192	RCRAINFO
147	3/28/2011, 12:03 PM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004199 8657	6000683	PDS
148	10/7/2016, 1:33 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004199 8657	AR0000000511900683	AIR
149	4/30/2014, 6:24 AM	2/24/2014, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004199 8657	0511900683	AIRS/AFS
150	12/31/2015, 8:37 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004199 8657	72206MGTBN8523F	TRIS
151	2/27/2014, 6:21 AM	10/5/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	10050	EIA-860
152	No Data	9/21/2005, 6:11 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	7730704	ICIS
153	No Data	1/4/2006, 5:01 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	7730704	ICIS
154	3/17/2014, 9:52 AM	9/21/2017, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	100000109839	RMP
155	No Data	12/30/2003, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	AR000000109	BR

156	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000339 1838	AR0000196659	RCRAINFO
157	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	AR000000109	RCRAINFO
158	8/9/2016, 2:58 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	ARR00A002	NPDES
159	8/9/2016, 2:58 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000052 1310	ARR00A002	NPDES
160	No Data	8/22/2012, 5:23 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	3000026475	ICIS
161	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004199 8657	CEDRI121814	CEDRI
162	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 1838	6001917	PDS
163	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007021 4403	ARR001689	NPDES
164	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007021 4403	ARR001689	NPDES
165	9/3/2016, 7:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000912 5160	ARR000393	NPDES
166	9/3/2016, 7:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000912 5160	ARR000393	NPDES
167	9/3/2016, 7:52 AM	10/31/2017, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000912 5160	AR0048895	NPDES
168	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000912 5160	6001494	PDS

169	No Data	9/11/2018, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007029 0281	341286763	OSHA-OIS
170	No Data	9/11/2018, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007029 0281	343414454	OSHA-OIS
171	No Data	9/11/2018, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007029 0281	340643790	OSHA-OIS
172	No Data	9/11/2018, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007029 0281	341226843	OSHA-OIS
173	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002503 4558	6002526	PDS

#	INTEREST_TYPE	ACTIVE_STATUS	PROGRAM_URL	PGM_REPORT_URL	PUBLIC_IND
1	STATE MASTER	No Data	No Data	no data yet	Y
2	AIR MINOR	OPERATING	No Data	no data yet	Y
3	AIR MINOR	OPERATING	No Data	no data yet	Y
4	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Υ
5	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Υ
6	HAZARDOUS WASTE BIENNIAL REPORTER	Y	No Data	no data yet	Υ
7	UNSPECIFIED UNIVERSE	Υ	No Data	no data yet	Υ
8	STATE MASTER	No Data	No Data	no data yet	Y
9	FORMAL ENFORCEMENT ACTION	No Data	No Data	no data yet	Y
10	RMP REPORTER	ACTIVE	No Data	no data yet	Y
11	STATE MASTER	No Data	No Data	no data yet	Y
12	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Υ
13	STORM WATER CONSTRUCTION	TERMINATED	No Data	no data yet	Υ
14	SQG	Υ	No Data	no data yet	Y
15	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Υ
16	STORM WATER INDUSTRIAL	TERMINATED	No Data	no data yet	Υ
17	HAZARDOUS WASTE BIENNIAL REPORTER	N	No Data	no data yet	Y
18	STATE MASTER	No Data	No Data	no data yet	Y
19	TRI REPORTER	ACTIVE	http://www.epa.gov/tri/	no data yet	Υ
20	STATE MASTER	No Data	No Data	no data yet	Υ
21	STATE MASTER	No Data	No Data	no data yet	Y
22	STATE MASTER	No Data	No Data	no data yet	Y
23	STATE MASTER	No Data	No Data	no data yet	Y
24	STATE MASTER	No Data	No Data	no data yet	Y
25	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Υ
26	STORM WATER CONSTRUCTION	TERMINATED	No Data	no data yet	Y
27	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Y
28	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Y
29	STATE MASTER	No Data	No Data	no data yet	Y
30	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Y
31	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Υ

			1		
32	LQG	Y	http://www.epa.gov/osw/ hazard/generation/lqg.ht m	no data yet	Y
33	STATE MASTER	No Data	No Data	no data yet	Y
34	HAZARDOUS WASTE BIENNIAL REPORTER	N	No Data	no data yet	Y
35	ELECTRIC POWER GENERATOR (BIOMASS BASED)	No Data	No Data	no data yet	Υ
36	UNSPECIFIED UNIVERSE	N	No Data	no data yet	Y
37	STATE MASTER	No Data	No Data	no data yet	Υ
38	AIR MAJOR	PERMANENTLY CLOSED	http://www.epa.gov/air/oa gps/permits/obtain.html	no data yet	Y
39	TRI REPORTER	ACTIVE	http://www.epa.gov/tri/	no data yet	Υ
40	AIR MAJOR	PERMANENTLY CLOSED	http://www.epa.gov/air/oa gps/permits/obtain.html	no data yet	Y
41	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Y
42	ICIS-NPDES NON- MAJOR	EXPIRED	No Data	no data yet	Y
43	STORM WATER CONSTRUCTION	EXPIRED	No Data	no data yet	Y
44	STATE MASTER	No Data	No Data	no data yet	Υ
45	ICIS-NPDES MAJOR	EFFECTIVE	http://cfpub.epa.gov/npd es/	no data yet	Y
46	POTW	EFFECTIVE	No Data	no data yet	Y
47	NPDES PRETREATMENT PROGRAM	EFFECTIVE	No Data	no data yet	Υ
48	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Y
49	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Υ
50	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Υ
51	STORM WATER CONSTRUCTION	EFFECTIVE	No Data	no data yet	Υ
52	STATE MASTER	No Data	No Data	no data yet	Y
53	STATE MASTER	No Data	No Data	no data yet	Y
54	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Υ
55	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Y
56	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Υ
57	STORM WATER CONSTRUCTION	TERMINATED	No Data	no data yet	Y
58	STATE MASTER	No Data	No Data	no data yet	Y
59	STATE MASTER	No Data	No Data	no data yet	Y
60	STATE MASTER	No Data	No Data	no data yet	Y
61	TSCA SUBMITTER	No Data	No Data	no data yet	Υ

62 MA 63 ST 64 ST 65 ICI 66 ST 67 ST 68 ST 69 ST 70 ST 71 ICI 72 ICI 73 ST 74 ICI 75 ST 76 ST	CIS-NPDES NON- IAJOR TORM WATER NDUSTRIAL TATE MASTER CIS-NPDES NON- IAJOR TORM WATER NDUSTRIAL TATE MASTER TATE MASTER TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR	EFFECTIVE EFFECTIVE No Data TERMINATED TERMINATED No Data No Data No Data EXPIRED	No Data No Data No Data No Data No Data No Data No Data No Data	no data yet no data yet no data yet no data yet no data yet no data yet no data yet	Y Y Y Y Y Y Y
63 INI 64 ST. 65 ICI 66 ST. 67 ST. 68 ST. 69 ST. 70 ST. 71 ICI 72 ICI 73 ST. 74 ICI 75 ST. 76 ST.	NDUSTRIAL TATE MASTER CIS-NPDES NON- IAJOR TORM WATER NDUSTRIAL TATE MASTER TATE MASTER TATE MASTER TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR	No Data TERMINATED TERMINATED No Data No Data No Data	No Data No Data No Data No Data No Data No Data	no data yet no data yet no data yet no data yet no data yet	Y Y Y Y
65 ICI MA 66 ST INI 67 ST. 68 ST. 69 ST. 70 CC 71 ICI MA 72 ICI MA 73 ST CC 74 ICI MA 75 ST CC	CIS-NPDES NON- IAJOR TORM WATER NDUSTRIAL TATE MASTER TATE MASTER TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR CIS-NPDES NON-	TERMINATED TERMINATED No Data No Data No Data	No Data No Data No Data No Data No Data	no data yet no data yet no data yet no data yet	Y Y Y
65 MA 66 ST 67 ST 68 ST 69 ST 70 CC 71 ICI 72 ICI 73 ST 74 ICI 75 ST 76 ST	IAJOR TORM WATER NDUSTRIAL TATE MASTER TATE MASTER TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR CIS-NPDES NON-	TERMINATED No Data No Data No Data	No Data No Data No Data No Data	no data yet no data yet no data yet	Y Y
66 INI 67 ST. 68 ST. 69 ST. 70 CC 71 ICI 72 ICI 73 ST 74 ICI 75 ST 76 ST	NDUSTRIAL TATE MASTER TATE MASTER TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR CIS-NPDES NON-	No Data No Data No Data	No Data No Data No Data	no data yet	Y
68 ST. 69 ST. 70 ST. 71 ICI 72 ICI 73 ST. 74 ICI 75 ST. 76 ST.	TATE MASTER TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR	No Data No Data	No Data No Data	no data yet	
69 ST. 70 ST. 71 ICI ΜΑ 72 ICI ΜΑ 73 ST. 74 ICI ΜΑ 75 ST. 76 ST.	TATE MASTER TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR CIS-NPDES NON-	No Data	No Data		Y
70ST CC71ICI MA72ICI MA73ST CC74ICI MA75ST CC76ST	TORM WATER CONSTRUCTION CIS-NPDES NON- IAJOR CIS-NPDES NON-			no data vat	1
70 CC 71 ICI MA 72 ICI MA 73 ST CC 74 ICI MA 75 ST CC 76 ST	CIS-NPDES NON- IAJOR CIS-NPDES NON-	EXPIRED		no data yet	Y
71 MA 72 ICI MA 73 ST CC 74 ICI MA 75 ST CC 76 ST	IAJOR CIS-NPDES NON-		No Data	no data yet	Υ
72 MA 73 ST 74 ICI 75 ST 76 ST	I	EXPIRED	No Data	no data yet	Υ
73 CC 74 ICI MA 75 ST CC 76 ST	IAJOR	EFFECTIVE	No Data	no data yet	Y
74 MA 75 ST 76 ST	TORM WATER	EFFECTIVE	No Data	no data yet	Y
75 CC 76 ST	CIS-NPDES NON- IAJOR	EFFECTIVE	No Data	no data yet	Y
	TORM WATER	EFFECTIVE	No Data	no data yet	Y
77 ST.	TATE MASTER	No Data	No Data	no data yet	Υ
	TATE MASTER	No Data	No Data	no data yet	Y
78 ST.	TATE MASTER	No Data	No Data	no data yet	Y
	NSPECIFIED NIVERSE	Y	No Data	no data yet	Y
	IAZARDOUS WASTE IENNIAL REPORTER	N	No Data	no data yet	Υ
81 ST.	TATE MASTER	No Data	No Data	no data yet	Υ
	NFORCEMENT/COMP	No Data	No Data	no data yet	Υ
83 ST.	TATE MASTER	No Data	No Data	no data yet	Υ
84 ST.	TATE MASTER	No Data	No Data	no data yet	Y
	INSPECIFIED INIVERSE	Ν	No Data	no data yet	Υ
	IAZARDOUS WASTE IENNIAL REPORTER	Ν	No Data	no data yet	Y
	OSHA ISTABLISHMENT	No Data	No Data	no data yet	Υ
	IAZARDOUS WASTE IENNIAL REPORTER	N	No Data	no data yet	Υ
89 ST.	TATE MASTER	No Data	No Data	no data yet	Y
90 ST.	TATE MASTER	No Data	No Data	no data yet	Y
91 ST.	TATE MASTER	No Data	No Data	no data yet	Y
	CIS-NPDES NON-	TERMINATED	No Data	no data yet	Υ
93 ST CC	IAJOR				

94	STATE MASTER	No Data	No Data	no data yet	Y
95	AIR SYNTHETIC MINOR	OPERATING	No Data	no data yet	Y
96	STATE MASTER	No Data	No Data	no data yet	Y
97	AIR SYNTHETIC MINOR	OPERATING	No Data	no data yet	Υ
98	UNSPECIFIED UNIVERSE	N	No Data	no data yet	Υ
99	UNSPECIFIED UNIVERSE	Y	No Data	no data yet	Y
100	GASOLINE AND DIESEL PRODUCERS	A	No Data	no data yet	Y
101	GASOLINE AND DIESEL PRODUCERS	A	No Data	no data yet	Y
102	STATE MASTER	No Data	No Data	no data yet	Υ
103	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Y
104	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Y
105	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Y
106	STATE MASTER	No Data	No Data	no data yet	Υ
107	STATE MASTER	No Data	No Data	no data yet	Υ
108	STATE MASTER	No Data	No Data	no data yet	Y
109	ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Υ
110	STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Y
111	STATE MASTER	No Data	No Data	no data yet	Υ
112	STATE MASTER	No Data	No Data	no data yet	Υ
113	FORMAL ENFORCEMENT ACTION	No Data	No Data	no data yet	Y
114	OTHER HAZARDOUS WASTE ACTIVITIES	Y	No Data	no data yet	Υ
115	AIR MAJOR	PERMANENTLY CLOSED	http://www.epa.gov/air/oa <u>qps/permits/obtain.html</u>	no data yet	Υ
116	STATE MASTER	No Data	No Data	no data yet	Υ
117	AIR EMISSIONS CLASSIFICATION UNKNOWN	OPERATING	No Data	no data yet	Y
118	ICIS-NPDES NON- MAJOR	EXPIRED	No Data	no data yet	Υ
119	STORM WATER CONSTRUCTION	EXPIRED	No Data	no data yet	Υ
120	TRI REPORTER	ACTIVE	http://www.epa.gov/tri/	no data yet	Υ
121	ICIS-NPDES NON- MAJOR	TERMINATED	No Data	no data yet	Υ
122	STORM WATER INDUSTRIAL	TERMINATED	No Data	no data yet	Y
123	COMPLIANCE AND EMISSIONS REPORTING	No Data	No Data	no data yet	Y

ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Υ
STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Y
AIR EMISSIONS CLASSIFICATION UNKNOWN	PERMANENTLY SHUTDOWN	No Data	no data yet	Y
COMPLIANCE AND EMISSIONS REPORTING	No Data	No Data	no data yet	Y
HAZARDOUS WASTE BIENNIAL REPORTER	Ν	No Data	no data yet	Y
TRI REPORTER	ACTIVE	http://www.epa.gov/tri/	no data yet	Υ
AIR MAJOR	PERMANENTLY CLOSED	http://www.epa.gov/air/oa qps/permits/obtain.html	no data yet	Y
STATE MASTER	No Data	No Data	no data yet	Y
STATE MASTER	No Data	No Data	no data yet	Υ
UNSPECIFIED UNIVERSE	N	No Data	no data yet	Y
STATE MASTER	No Data	No Data	no data yet	Y
STATE MASTER	No Data	No Data	no data yet	Y
UNSPECIFIED UNIVERSE	Y	No Data	no data yet	Y
ICIS-NPDES NON- MAJOR	EXPIRED	No Data	no data yet	Y
STORM WATER INDUSTRIAL	EXPIRED	No Data	no data yet	Y
STATE MASTER	No Data	No Data	no data yet	Y
HAZARDOUS AIR POLLUTANT MAJOR	OPERATING	No Data	no data yet	Y
HAZARDOUS WASTE BIENNIAL REPORTER	N	No Data	no data yet	Y
ICIS-NPDES NON- MAJOR	EFFECTIVE	No Data	no data yet	Y
STORM WATER INDUSTRIAL	EFFECTIVE	No Data	no data yet	Y
ICIS-NPDES MAJOR	EFFECTIVE	http://cfpub.epa.gov/npd es/	no data yet	Y
BIOSOLIDS	EFFECTIVE	No Data	no data yet	Y
UNSPECIFIED UNIVERSE	N	No Data	no data yet	Y
STATE MASTER	No Data	No Data	no data yet	Υ
AIR SYNTHETIC MINOR	PERMANENTLY CLOSED	No Data	no data yet	Y
AIR SYNTHETIC MINOR	PERMANENTLY CLOSED	No Data	no data yet	Y
TRI REPORTER	ACTIVE	http://www.epa.gov/tri/	no data yet	Υ
ELECTRIC GENERATOR	OPERATING	No Data	no data yet	Y
ENFORCEMENT/COMP LIANCE ACTIVITY	No Data	No Data	no data yet	Y
	MAJORINDUSTRIALSTORM WATERSIDUSTRIALSUREMISSIONSSULASSIFICATIONSUNENDUSNSSIONSSUNPLIANCE ANDSISSIONSREPORTINGHAZARDOUS WASTERBIENNIAL REPORTERAIR MAJORSTATE MASTERUNSPECIFIEDSTATE MASTERUNSPECIFIEDVINIVERSEICIS-NPDES NON-STATE MASTERBIOUSTRIALRIDUSTRIALSTORM WATERBIOSOLIDSICIS-NPDES MAJORICIS-NPDES MAJORBIOSOLIDSIDOSOLIDSJUNSPECIFIEDINNERSESTORM WATERSTORM WATERSTORM WATERSTORM WATERMAJORARASARDOUS MASTERICIS-NPDES MAJORAIR SYNTHETICAIR SYNTHETICAIR SYNTHETICSINGRSINGR SUNTHETICSINGR SUNTHETICSINGR SUNTHETICSINGR SUNTHETICSINGR SUNTHETICSINGR SUNTHETICSUNSPECIFIEDSINGR SUNTHETICSUNSPECIFIEDSUNSPECIFIEDSINGR SUNTHETICSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIEDSUNSPECIFIED <td>MAJOREFFECTIVESTORM WATER NDUSTRIALEFFECTIVEAIR EMISSIONS CLASSIFICATION UNKNOWNPERMANENTLY SHUTDOWNCOMPLIANCE AND EMISSIONSNo DataCOMPLIANCE AND EMISSIONSNo DataCOMPLIANCE AND 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111SNRMAL SNRMA						
Index and provided with the prov	153	ENFORCEMENT	No Data	No Data	no data yet	Y
135BIENNIAL REPORTERNNoNoDataNo<	154	RMP REPORTER	ACTIVE	No Data	no data yet	Y
185UNIVERSENNO DataNo DataNo data yetY157UNSPECIFIEDYNo Datano data yetY158ICIS-NPDES NON- MAJORTERMINATEDNo Datano data yetY159STORM WATERTERMINATEDNo Datano data yetY160INFORCEMENT/COMPNo DataNo Datano data yetY161RISK AND TANCE ACTIVITYNo DataNo Datano data yetY162STARE MASTERNo DataNo Datano data yetY163RISK AND TANCE ACTIVITYNo DataNo Datano data yetY164STORM WATERNo DataNo Datano data yetY165STATE MASTERNo DataNo Datano data yetY166KIG-NPDES NON-EFFECTIVENo Datano data yetY167KIG-NPDES NON-EFFECTIVENo Datano data yetY168KIG-NPDES NON-EFFECTIVENo Datano data yetY169KIG-NPDES NON-EFFECTIVENo Datano data yetY160KIG-NPDES NON-EFFECTIVENo Datano data yetY170KIG-NPDES NON-EFFECTIVENo Datano data yetY171KIG-NPDES NON-EFFECTIVENo Datano data yetY171KIG-NPDES NON-EFFECTIVENo Datano data yetY171KIG-NPDES NON-EFFECTIVENo Datano data	155		Ν	No Data	no data yet	Υ
137UNIVERSE1No DataNo Data	156		Ν	No Data	no data yet	Υ
188MAJORTERMINATEDNo DataNo DataNo data yetY159STORM WATER INDUSTRIALTERMINATEDNo Datano data yetY160ENFORCEMENT/COMP LIANCE ACTIVITYNo DataNo Datano data yetY161RESK AND TECHNOLOGYNo DataNo Datano data yetY162STATE MASTERNo DataNo Datano data yetY163ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY164STORM WATEREFFECTIVENo Datano data yetY165ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY166STORM WATEREFFECTIVENo Datano data yetY167ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY168STORM WATEREFFECTIVENo Datano data yetY169ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY169STORM WATEREFFECTIVENo Datano data yetY160STORM WATEREFFECTIVENo Datano data yetY161STORM WATERNo DataNo Datano data yetY162STORM WATERNo DataNo Datano data yetY163STATE MASTERNo DataNo Datano data yetY164STATE MASTERNo DataNo Datano data yetY170SETABLISHMENT<	157		Y	No Data	no data yet	Υ
139INDUSTRIALTERMINATEDNo DataNo DataIn data yetY160ENFORCEMENT/COMP LIANCE ACTIVITYNo DataNo Datano data yetY161RECHNOLOGY REVIEWNo DataNo Datano data yetY162STATE MASTERNo DataNo Datano data yetY163CIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY164STORM WATEREFFECTIVENo Datano data yetY165KIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY166STORM WATEREFFECTIVENo Datano data yetY166STORM WATEREFFECTIVENo Datano data yetY167NOLS-NPDES NON- MAJOREFFECTIVENo Datano data yetY168STORM WATEREFFECTIVENo Datano data yetY169STORM WATEREFFECTIVENo Datano data yetY164STORM WATEREFFECTIVENo Datano data yetY165STORM WATEREFFECTIVENo Datano data yetY166STATE MASTERNo DataNo Datano data yetY167OIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY168STATE MASTERNo DataNo Datano data yetY169CIS-NPDES NON- STABLISHMENTNo DataNo Datano data yetY170OSHA ESTA	158		TERMINATED	No Data	no data yet	Υ
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161RECHNOLOGY REVIEWNo DataNo Datano data yetY162STATE MASTERNo DataNo Datano data yetY163ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY164STORM WATER MAJOREFFECTIVENo Datano data yetY165STORM WATER MAJOREFFECTIVENo Datano data yetY166ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY167STORM WATER MAJOREFFECTIVENo Datano data yetY168STORM WATER MAJOREFFECTIVENo Datano data yetY169STORM WATER MAJOREFFECTIVENo Datano data yetY160STATE MASTERNo DataNo Datano data yetY161STATE MASTERNo DataNo Datano data yetY162STABLISHMENTNo DataNo Datano data yetY170SSHA STABLISHMENTNo DataNo Datano data yetY171SSHA STABLISHMENTNo DataNo Datano data yetY172SSHA STABLISHMENTNo DataNo Datano data yetY173SSHA STABLISHMENTNo DataNo Datano data yetY174SSHA STABLISHMENTNo DataNo Datano data yetY175SSHA STABLISHMENTNo DataNo Datano data yetY <td>160</td> <td></td> <td>No Data</td> <td>No Data</td> <td>no data yet</td> <td>Υ</td>	160		No Data	No Data	no data yet	Υ
163ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY164STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY165ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY166STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY167ICIS-NPDES NON- NDUSTRIALEFFECTIVENo Datano data yetY168STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY169STATE MASTERNo DataNo Datano data yetY169OSHA STABLISHMENTNo DataNo Datano data yetY170OSHA STABLISHMENTNo DataNo Datano data yetY171OSHA STABLISHMENTNo DataNo Datano data yetY172OSHA STABLISHMENTNo DataNo Datano data yetY173OSHA STABLISHMENTNo DataNo Datano data yetY174OSHA STABLISHMENTNo DataNo Datano data yetY175OSHA STABLISHMENTNo DataNo Datano data yetY174OSHA STABLISHMENTNo DataNo Datano data yetY175OSHA STABLISHMENTNo DataNo Datano data yetY	161	TECHNOLOGY	No Data	No Data	no data yet	Y
163MAJOREFFECTIVENo DataNo DataNo data yetY164STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY165ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY166STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY167ICIS-NPDES NON- NDUSTRIALEFFECTIVENo Datano data yetY168STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY169STATE MASTERNo DataNo Datano data yetY169OSHA STABLISHMENTNo DataNo Datano data yetY170OSHA STABLISHMENTNo DataNo Datano data yetY171OSHA STABLISHMENTNo DataNo Datano data yetY172OSHA STABLISHMENTNo DataNo Datano data yetY173OSHA STABLISHMENTNo DataNo Datano data yetY174OSHA STABLISHMENTNo DataNo Datano data yetY175OSHA STABLISHMENTNo DataNo Datano data yetY174OSHA STABLISHMENTNo DataNo Datano data yetY175OSHA STABLISHMENTNo DataNo Datano data yetY176OSHA STABLISHMENTNo DataNo Datano data yetY177OSHA STABLISHMENTNo DataNo Datano data	162	STATE MASTER	No Data	No Data	no data yet	Y
164INDUSTRIALEFFECTIVENo DataInd data yetY165ICIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY166STORM WATER NDUSTRIALEFFECTIVENo Datano data yetY167CIS-NPDES NON- MAJOREFFECTIVENo Datano data yetY168STATE MASTERNo DataNo Datano data yetY169OSHA ESTABLISHMENTNo DataNo Datano data yetY170OSHA ESTABLISHMENTNo DataNo Datano data yetY171OSHA ESTABLISHMENTNo DataNo Datano data yetY172OSHA ESTABLISHMENTNo DataNo Datano data yetY	163		EFFECTIVE	No Data	no data yet	Υ
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167MAJOREFFECTIVENo DataNo DataIto data yetY168STATE MASTERNo DataNo Datano data yetY169OSHA ESTABLISHMENTNo DataNo Datano data yetY170OSHA ESTABLISHMENTNo DataNo Datano data yetY171OSHA ESTABLISHMENTNo DataNo Datano data yetY172OSHA ESTABLISHMENTNo DataNo Datano data yetY173OSHA ESTABLISHMENTNo DataNo Datano data yetY174OSHA ESTABLISHMENTNo DataNo Datano data yetY	166		EFFECTIVE	No Data	no data yet	Υ
169OSHA ESTABLISHMENTNo DataNo Datano data yetY170OSHA ESTABLISHMENTNo DataNo Datano data yetY171OSHA ESTABLISHMENTNo DataNo Datano data yetY172OSHA ESTABLISHMENTNo DataNo Datano data yetY173OSHA ESTABLISHMENTNo DataNo Datano data yetY174OSHA ESTABLISHMENTNo DataNo Datano data yetY	167		EFFECTIVE	No Data	no data yet	Υ
109ESTABLISHMENTNo DataNo DataNo DataNo DataNo DataNo data yetY170OSHA ESTABLISHMENTNo DataNo DataNo Datano data yetY171OSHA ESTABLISHMENTNo DataNo Datano data yetY172OSHA ESTABLISHMENTNo DataNo Datano data yetY	168	STATE MASTER	No Data	No Data	no data yet	Y
17.0ESTABLISHMENTNo DataNo DataNo DataNo DataNo DataNo data yetY17.1OSHA ESTABLISHMENTNo DataNo Datano data yetYY17.2OSHA ESTABLISHMENTNo DataNo Datano data yetY	169		No Data	No Data	no data yet	Υ
ITT ESTABLISHMENT No Data No Data No Data 172 OSHA ESTABLISHMENT No Data No Data no data yet Y	170		No Data	No Data	no data yet	Υ
ESTABLISHMENT No Data No Data No Data No Data No Data	171		No Data	No Data	no data yet	Υ
173 STATE MASTER No Data No Data no data yet Y	172		No Data	No Data	no data yet	Υ
	173	STATE MASTER	No Data	No Data	no data yet	Υ

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
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2	No Data	111102070404	No Data	No Data	06	AIRAR00000005 11900419	1
3	No Data	111102070404	No Data	N	06	AIRS/AFS05119 00419	1
4	No Data	111102070404	No Data	N	06	NPDESARR00A 620	1
5	No Data	111102070404	No Data	N	06	NPDESARR00A 620	1
6	No Data	111102070404	No Data	Ν	06	BRARD0825728 92	1
7	No Data	111102070404	No Data	Ν	06	RCRAINFOARD 082572892	1
8	No Data	No Data	No Data	N	06	PDS6000620	1
9	No Data	No Data	No Data	N	06	ICIS25727	1
10	No Data	No Data	No Data	No Data	06	RMP100000232 385	1
11	No Data	No Data	No Data	N	06	PDS6003387	1
12	No Data	No Data	No Data	No Data	06	NPDESARR155 232	1
13	No Data	No Data	No Data	No Data	06	NPDESARR155 232	1
14	No Data	No Data	No Data	N	06	RCRAINFOARD 112906987	1
15	No Data	No Data	No Data	N	06	NPDESARR00C 043	1
16	No Data	No Data	No Data	N	06	NPDESARR00C 043	1
17	No Data	No Data	No Data	N	06	BRARD1129069 87	1
18	No Data	No Data	No Data	N	06	PDS6001498	1
19	No Data	No Data	No Data	N	06	TRIS72206PRS PC8900F	1
20	No Data	No Data	No Data	N	06	PDS6001100	1
21	No Data	No Data	No Data	N	06	PDS6003388	1
22	No Data	111102070402	No Data	N	06	PDS6004064	1
23	No Data	No Data	No Data	N	06	PDS6003552	1
24	No Data	No Data	No Data	N	06	PDS6004756	1
25	No Data	111102070404	No Data	N	06	NPDESARF6101 41	1
26	No Data	111102070404	No Data	N	06	NPDESARF6101 41	1
27	No Data	111102070404	No Data	No Data	06	NPDESARR0011 12	1
28	No Data	111102070404	No Data	No Data	06	NPDESARR0011 12	1
29	No Data	No Data	No Data	N	06	PDS6002514	1
30	No Data	No Data	No Data	N	06	NPDESARR00A 674	1

31	No Data	No Data	No Data	N	06	NPDESARR00A 674	1
32	No Data	No Data	No Data	N	06	RCRAINFOAR00 00362756	1
33	No Data	No Data	No Data	N	06	PDS6002270	1
34	No Data	No Data	No Data	N	06	BRAR00003627 56	1
35	No Data	No Data	No Data	No Data	06	EGRID10050	1
36	No Data	No Data	No Data	N	06	RCRAINFOARD 006341705	1
37	No Data	No Data	No Data	N	06	PDS6000110	1
38	No Data	No Data	No Data	Ν	06	AIRS/AFS05119 00110	1
39	No Data	No Data	No Data	No Data	06	TRIS72117SPR WDHWY16	1
40	No Data	No Data	No Data	No Data	06	AIRAR00000005 11900110	1
41	No Data	No Data	No Data	Ν	06	NPDESAR00016 43	1
42	No Data	No Data	No Data	No Data	06	NPDESARR155 906	1
43	No Data	No Data	No Data	No Data	06	NPDESARR155 906	1
44	No Data	111102070204	No Data	N	06	PDS6002343	1
45	No Data	No Data	No Data	N	06	NPDESAR00401 77	1
46	No Data	No Data	No Data	N	06	NPDESAR00401 77	1
47	No Data	No Data	No Data	Ν	06	NPDESAR00401 77	1
48	No Data	No Data	No Data	No Data	06	NPDESARR001 735	1
49	No Data	No Data	No Data	No Data	06	NPDESARR001 735	1
50	No Data	No Data	No Data	Ν	06	NPDESARR157 082	1
51	No Data	No Data	No Data	Ν	06	NPDESARR157 082	1
52	No Data	111102070204	No Data	N	06	PDS6003950	1
53	No Data	No Data	No Data	N	06	PDS6006073	1
54	No Data	No Data	No Data	No Data	06	NPDESARR000 716	1
55	No Data	No Data	No Data	No Data	06	NPDESARR000 716	1
56	No Data	No Data	No Data	Ν	06	NPDESARR154 912	1
57	No Data	No Data	No Data	N	06	NPDESARR154 912	1
58	No Data	111102070404	No Data	N	06	PDS6001856	1
59	No Data	No Data	No Data	N	06	PDS6003325	1
60	No Data	No Data	No Data	N	06	PDS6002872	1

61	No Data	No Data	No Data	No Data	06	TSCATSCA1006 1801	1
62	No Data	No Data	No Data	N	06	NPDESARR001 857	1
63	No Data	No Data	No Data	N	06	NPDESARR001 857	1
64	No Data	No Data	No Data	N	06	PDS6004978	1
65	No Data	111102070404	No Data	N	06	NPDESARR00C 196	1
66	No Data	111102070404	No Data	N	06	NPDESARR00C 196	1
67	No Data	111102070404	No Data	N	06	PDS6001691	1
68	No Data	No Data	No Data	N	06	PDS6005012	1
69	No Data	No Data	No Data	N	06	PDS6004860	1
70	No Data	No Data	No Data	N	06	NPDESARR155 959	1
71	No Data	No Data	No Data	N	06	NPDESARR155 959	1
72	No Data	No Data	No Data	N	06	NPDESARR156 740	1
73	No Data	No Data	No Data	N	06	NPDESARR156 740	1
74	No Data	No Data	No Data	N	06	NPDESARR156 735	1
75	No Data	No Data	No Data	N	06	NPDESARR156 735	1
76	No Data	No Data	No Data	N	06	PDS6004863	1
77	No Data	No Data	No Data	N	06	PDS6000383	1
78	No Data	No Data	No Data	N	06	PDS6000973	1
79	No Data	No Data	No Data	N	06	RCRAINFOARD 983274077	1
80	No Data	No Data	No Data	N	06	BRARD9832740 77	1
81	No Data	111102070402	No Data	N	06	PDS6004340	1
82	No Data	111102070404	No Data	No Data	06	ICIS8063737	1
83	No Data	111102070404	No Data	N	06	PDS6001021	1
84	No Data	No Data	No Data	N	06	PDS6004385	1
85	No Data	No Data	No Data	N	06	RCRAINFOARR 000012070	1
86	No Data	No Data	No Data	N	06	BRARR0000120 70	1
87	No Data	No Data	No Data	No Data	06	OSHA- OIS343414801	1
88	No Data	No Data	No Data	N	06	BRARD9815853 18	1
89	No Data	No Data	No Data	N	06	PDS6001366	1
90	No Data	No Data	No Data	N	06	PDS6002675	1
91	No Data	111102070402	No Data	N	06	PDS6004380	1
92	No Data	111102070204	No Data	N	06	NPDESARR151 082	1

93	No Data	111102070204	No Data	N	06	NPDESARR151 082	1
94	No Data	No Data	No Data	N	06	PDS6002157	1
95	No Data	No Data	No Data	N	06	AIRS/AFS05119 01801	1
96	No Data	No Data	No Data	N	06	PDS6001801	1
97	No Data	No Data	No Data	No Data	06	AIRAR00000005 11901801	1
98	No Data	No Data	No Data	N	06	RCRAINFOARD 983286287	1
99	No Data	111102070404	No Data	N	06	RCRAINFOARD 981585318	1
100	No Data	111102070404	No Data	No Data	06	OTAQREGOTAQ REG10030600	1
101	No Data	111102070404	No Data	No Data	06	OTAQREGOTAQ REG10029260	1
102	No Data	111102070404	No Data	N	06	PDS6000471	1
103	No Data	111102070404	No Data	N	06	NPDESARR000 729	1
104	No Data	111102070404	No Data	N	06	NPDESARR000 729	1
105	No Data	111102070404	No Data	N	06	NPDESARG340 015	1
106	No Data	111102070404	No Data	N	06	PDS6004423	1
107	No Data	No Data	No Data	N	06	PDS6003899	1
108	No Data	No Data	No Data	N	06	PDS6000982	1
109	No Data	111102070404	No Data	N	06	NPDESARR000 611	1
110	No Data	111102070404	No Data	N	06	NPDESARR000 611	1
111	No Data	111102070402	No Data	N	06	PDS6002342	1
112	No Data	No Data	No Data	N	06	PDS6000605	1
113	No Data	No Data	No Data	No Data	06	ICIS29419	1
114	No Data	No Data	No Data	N	06	RCRAINFOARR 000018010	1
115	No Data	No Data	No Data	N	06	AIRS/AFS05119 04199	1
116	No Data	No Data	No Data	N	06	PDS6001305	1
117	No Data	No Data	No Data	No Data	06	EIS16157411	1
118	No Data	No Data	No Data	N	06	NPDESARR155 256	1
119	No Data	No Data	No Data	N	06	NPDESARR155 256	1
120	No Data	No Data	No Data	N	06	TRIS72206LMG LS8FRAZ	1
121	No Data	No Data	No Data	N	06	NPDESARR000 405	1
122	No Data	No Data	No Data	N	06	NPDESARR000 405	1
123	No Data	No Data	No Data	N	06	CEDRICEDRI10 2035	1

124	No Data	No Data	No Data	N	06	NPDESARR00B 850	1
125	No Data	No Data	No Data	N	06	NPDESARR00B 850	1
126	No Data	No Data	No Data	No Data	06	EIS12579811	1
127	No Data	No Data	No Data	No Data	06	CEDRICEDRI10 2034	1
128	No Data	No Data	No Data	N	06	BRARR0000180 10	1
129	No Data	No Data	No Data	N	06	TRIS7220WLMG LS8FRAZ	1
130	No Data	No Data	No Data	No Data	06	AIRAR00000005 11904199	1
131	No Data	No Data	No Data	N	06	PDS6004199	1
132	No Data	111102070204	No Data	N	06	PDS6003947	1
133	No Data	111102070404	No Data	N	06	RCRAINFOARD 086639804	1
134	No Data	111102070404	No Data	N	06	PDS6000690	1
135	No Data	No Data	No Data	Ν	06	PDS6004524	1
136	No Data	No Data	No Data	N	06	RCRAINFOARD 983274325	1
137	No Data	No Data	No Data	N	06	NPDESARR000 957	1
138	No Data	No Data	No Data	N	06	NPDESARR000 957	1
139	No Data	No Data	No Data	N	06	PDS6002021	1
140	No Data	No Data	No Data	No Data	06	EIS1072911	1
141	No Data	No Data	No Data	Ν	06	BRARD1221851 92	1
142	No Data	111102070404	No Data	N	06	NPDESARR001 276	1
143	No Data	111102070404	No Data	N	06	NPDESARR001 276	1
144	No Data	111102070404	No Data	N	06	NPDESARL0401 77	1
145	No Data	111102070404	No Data	Ν	06	NPDESARL0401 77	1
146	No Data	No Data	No Data	N	06	RCRAINFOARD 122185192	1
147	No Data	No Data	No Data	N	06	PDS6000683	1
148	No Data	No Data	No Data	No Data	06	AIRAR00000005 11900683	1
149	No Data	No Data	No Data	N	06	AIRS/AFS05119 00683	1
150	No Data	No Data	No Data	N	06	TRIS72206MGT BN8523F	1
151	No Data	111102070404	No Data	No Data	06	EIA-86010050	1
152	No Data	111102070404	No Data	N	06	ICIS7730704	1
153	No Data	111102070404	No Data	N	06	ICIS7730704	1
154	No Data	111102070404	No Data	No Data	06	RMP100000109 839	1

155	No Data	111102070404	No Data	N	06	BRAR00000001 09	1
156	No Data	No Data	No Data	N	06	RCRAINFOAR00 00196659	1
157	No Data	111102070404	No Data	N	06	RCRAINFOAR00 00000109	1
158	No Data	111102070404	No Data	N	06	NPDESARR00A 002	1
159	No Data	111102070404	No Data	N	06	NPDESARR00A 002	1
160	No Data	111102070404	No Data	N	06	ICIS3000026475	1
161	No Data	No Data	No Data	No Data	06	CEDRICEDRI12 1814	1
162	No Data	No Data	No Data	N	06	PDS6001917	1
163	No Data	No Data	No Data	No Data	06	NPDESARR001 689	1
164	No Data	No Data	No Data	No Data	06	NPDESARR001 689	1
165	No Data	No Data	No Data	N	06	NPDESARR000 393	1
166	No Data	No Data	No Data	N	06	NPDESARR000 393	1
167	No Data	No Data	No Data	N	06	NPDESAR00488 95	1
168	No Data	No Data	No Data	N	06	PDS6001494	1
169	No Data	No Data	No Data	No Data	06	OSHA- OIS341286763	1
170	No Data	No Data	No Data	No Data	06	OSHA- OIS343414454	1
171	No Data	No Data	No Data	No Data	06	OSHA- OIS340643790	1
172	No Data	No Data	No Data	No Data	06	OSHA- OIS341226843	1
173	No Data	No Data	No Data	N	06	PDS6002526	1

EPA-FRS Interests - AIR

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
2	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
3	110012712109	LEXICON, INC.	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
4	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
5	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI

#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72206	34.71	-92.18
2	05119	AR	72117-9728	34.72	-92.16
3	05119	AR	72206	34.71	-92.19
4	05119	AR	72206-3865	34.71	-92.18
5	05119	AR	72206	34.71	-92.18

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	12/26/2002, 8:11 AM
2	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/9/2014, 4:10 AM
3	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	11/9/2014, 4:10 AM
4	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	11/9/2014, 4:10 AM
5	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/23/2009, 12:41 PM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	10/7/2016, 1:30 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000170 5101	AR0000000511900419	AIR
2	10/7/2016, 1:32 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000060 6684	AR0000000511900110	AIR
3	10/7/2016, 1:28 PM	5/1/2018, 6:36 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001271 2109	AR0000000511901801	AIR
4	10/7/2016, 1:31 PM	10/19/2020, 4:29 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	AR0000000511904199	AIR
5	10/7/2016, 1:33 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004199 8657	AR0000000511900683	AIR

#	INTEREST_TYPE	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	PGM_REPORT_URL
1	AIR MINOR	No Data	Υ	OPERATING	no data yet
2	AIR MAJOR	http://www.epa.gov/air/oa gps/permits/obtain.html	Y	PERMANENTLY CLOSED	no data yet
3	AIR SYNTHETIC MINOR	No Data	Y	OPERATING	no data yet
4	AIR MAJOR	http://www.epa.gov/air/oa gps/permits/obtain.html	Y	PERMANENTLY CLOSED	no data yet
5	AIR SYNTHETIC MINOR	No Data	Y	PERMANENTLY CLOSED	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	111102070404	No Data	No Data	06	AIRAR00000005 11900419	1
2	No Data	No Data	No Data	No Data	06	AIRAR00000005 11900110	1
3	No Data	No Data	No Data	No Data	06	AIRAR00000005 11901801	1
4	No Data	No Data	No Data	No Data	06	AIRAR00000005 11904199	1
5	No Data	No Data	No Data	No Data	06	AIRAR00000005 11900683	1

EPA - FRS Interest - AIR MAJOR

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
2	110000606684	GEORGIA-PACIFIC CORP	9013 H I GHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
3	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
4	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
#	FIPS CODE	STATE CODE	POSTAL CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72117-9728	34.72	-92.16
Ľ	03119	AN	72117-9720	54.72	-92.10
2	05119	AR	72117-9728	34.72	-92.16
3	05119	AR	72206-3865	34.71	-92.18
4	05119	AR	72206-3865	34.71	-92.18

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	6/23/2009, 1:10 PM
2	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/9/2014, 4:10 AM
3	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	3/10/2010, 9:40 AM
4	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	11/9/2014, 4:10 AM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	4/30/2014, 6:07 AM	2/24/2014, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	0511900110	AIRS/AFS
2	10/7/2016, 1:32 PM	10/18/2014, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	AR0000000511900110	AIR
3	4/30/2014, 6:24 AM	2/24/2014, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	0511904199	AIRS/AFS
4	10/7/2016, 1:31 PM	10/19/2020, 4:29 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	AR0000000511904199	AIR

#	INTEREST_TYPE	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	PGM_REPORT_URL
1	AIR MAJOR	http://www.epa.gov/air/oa gps/permits/obtain.html	Y	PERMANENTLY CLOSED	no data yet
2	AIR MAJOR	http://www.epa.gov/air/oa gps/permits/obtain.html	Y	PERMANENTLY CLOSED	no data yet
3	AIR MAJOR	http://www.epa.gov/air/oa <u>qps/permits/obtain.html</u>	Υ	PERMANENTLY CLOSED	no data yet
4	AIR MAJOR	http://www.epa.gov/air/oa <u>qps/permits/obtain.html</u>	Υ	PERMANENTLY CLOSED	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	Ν	06	AIRS/AFS05119 00110	1
2	No Data	No Data	No Data	No Data	06	AIRAR00000005 11900110	1
3	No Data	No Data	No Data	N	06	AIRS/AFS05119 04199	1
4	No Data	No Data	No Data	No Data	06	AIRAR00000005 11904199	1

EPA - FRS Interest - EIS (Emission Inventory System)

#	CITY_NAME	FIPS_CODE	STATE_CODE	LATITUDE83	HUC8_CODE
1	LITTLE ROCK	05119	AR	34.71	11110207
2	LITTLE ROCK	05119	AR	34.71	11110207
3	LITTLE ROCK	05119	AR	34.71	11110207

#	FAC_URL	PGM_SYS_ID	PUBLIC_IND	REGISTRY_ID	PRIMARY_NAME
1	https://ofmpub.epa.gov/fr s_public2/fii_query_detai I.disp_program_facility? p_registry_id=11003110 4622	16157411	Y	110031104622	LM WINDPOWER BLADES (USA) INC.
2	https://ofmpub.epa.gov/fr s_public2/fii_query_detai I.disp_program_facility? p_registry_id=11003110 4622	12579811	Y	110031104622	LM WINDPOWER BLADES (USA) INC.
3	https://ofmpub.epa.gov/fr s_public2/fii_query_detai I.disp_program_facility? p_registry_id=11004199 8657	1072911	Y	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL

#	LOCATION_ADDRESS	COUNTY_NAME	POSTAL_CODE	LONGITUDE83	ACCURACY_VALUE
1	8000 FRAZIER PIKE	PULASKI COUNTY	72206-3865	-92.18	3
2	8000 FRAZIER PIKE	PULASKI COUNTY	72206-3865	-92.18	3
3	8200 FRAZIER PIKE	PULASKI	72206	-92.18	No Data

#	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE	UPDATE_DATE	LAST_REPORTED_DA TE
1	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	1/19/2021, 6:00 PM	No Data	8/25/2021, 7:00 PM
2	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	1/19/2021, 6:00 PM	No Data	8/25/2021, 7:00 PM
3	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/19/2021, 6:00 PM	No Data	8/25/2021, 7:00 PM

#	PGM_SYS_ACRNM	INTEREST_TYPE	PROGRAM_URL	PGM_REPORT_URL	ACTIVE_STATUS
1	EIS	AIR EMISSIONS CLASSIFICATION UNKNOWN	No Data	no data yet	OPERATING
2	EIS	AIR EMISSIONS CLASSIFICATION UNKNOWN	No Data	no data yet	PERMANENTLY SHUTDOWN
3	EIS	HAZARDOUS AIR POLLUTANT MAJOR	No Data	no data yet	OPERATING

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	No Data	06	EIS16157411	1
2	No Data	No Data	No Data	No Data	06	EIS12579811	1
3	No Data	No Data	No Data	No Data	06	EIS1072911	1

EPA - FRS Interest - ICIS (Integrated Compliance Information System)

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110010651106	ROUTH WRECKER SERVICE	6403 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
2	110028130350	LITTLE ROCK, CITY OF - FOURCHE WWTP (AR0040177)	9500 BIRDWOOD DR.	LITTLE ROCK	PULASKI
3	110010745818	VINYL BUILDING PRODUCTS INC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI
4	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
5	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
6	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
				0.1.70	

#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LAITIUDE83	LONGITUDE83
1	05119	AR	722062744	34.72	-92.20
2	05119	AR	72206	34.70	-92.16
3	05119	AR	722063863	34.70	-92.18
4	05119	AR	72206-3861	34.70	-92.16
5	05119	AR	72206-3861	34.70	-92.16
6	05119	AR	72206-3861	34.70	-92.16

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	9/12/1999, 7:00 PM
2	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	2/16/2007, 10:15 AM
3	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/14/1996, 7:00 PM
4	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	1/19/2006, 5:51 AM
5	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/26/2006, 4:03 AM
6	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/29/2012, 5:29 AM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	6/9/2003, 7:00 PM	1/19/2000, 7:01 AM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=110010651 _106	25727	ICIS
2	No Data	6/2/2006, 12:04 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002813 0350	8063737	ICIS
3	6/9/2003, 7:00 PM	5/4/1998, 2:01 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001074 5818	29419	ICIS
4	No Data	9/21/2005, 6:11 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	7730704	ICIS
5	No Data	1/4/2006, 5:01 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	7730704	ICIS
6	No Data	8/22/2012, 5:23 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	3000026475	ICIS

#	INTEREST_TYPE	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	PGM_REPORT_URL
1	FORMAL ENFORCEMENT ACTION	No Data	Y	No Data	no data yet
2	ENFORCEMENT/COMP LIANCE ACTIVITY	No Data	Y	No Data	no data yet
3	FORMAL ENFORCEMENT ACTION	No Data	Y	No Data	no data yet
4	ENFORCEMENT/COMP LIANCE ACTIVITY	No Data	Y	No Data	no data yet
5	FORMAL ENFORCEMENT ACTION	No Data	Y	No Data	no data yet
6	ENFORCEMENT/COMP LIANCE ACTIVITY	No Data	Y	No Data	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	Ν	06	ICIS25727	1
2	No Data	111102070404	No Data	No Data	06	ICIS8063737	1
3	No Data	No Data	No Data	No Data	06	ICIS29419	1
4	No Data	111102070404	No Data	Ν	06	ICIS7730704	1
5	No Data	111102070404	No Data	N	06	ICIS7730704	1
6	No Data	111102070404	No Data	Ν	06	ICIS3000026475	1

EPA - FRS Interest - NPDES

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
2	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
3	110069343197 NGL PIPE STORAGE FACILITY		1/2 MILE FROM LINDSEY ROAD AND INDUSTRIAL HARBOR	LITTLE ROCK	PULASKI
4	110069343197	NGL PIPE STORAGE FACILITY	1/2 MILE FROM LINDSEY ROAD AND INDUSTRIAL HARBOR	LITTLE ROCK	PULASKI
5	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
6	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
7	110024810622	RINGER CONTAINER	SLACKWATER DR. & FRAZER PARK	LITTLE ROCK	PULASKI
8	110024810622	RINGER CONTAINER	SLACKWATER DR. & FRAZER PARK	LITTLE ROCK	PULASKI
9	110055092484	WELSPUN TUBULAR, LLC -ERW FACILITY	8200 FRAZIER PIKE RD	LITTLE ROCK	PULASKI
10	110055092484	WELSPUN TUBULAR, LLC -ERW FACILITY	8200 FRAZIER PIKE RD	LITTLE ROCK	PULASKI
11	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
12	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
13	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
14	110070220546	LRPA GROWTH INITIATIVE-RAIL STORAGE, HARBOR TRACK SPUR	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
15	110070220546	LRPA GROWTH INITIATIVE-RAIL STORAGE, HARBOR TRACK SPUR	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
16	110064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
17	110064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
18	110064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
19	110070264029	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
20	110070264029	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
21	110071080606	ENTEGRITY SOLAR CALS	6617 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
22	110071080606	ENTEGRITY SOLAR CALS	6617 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
23	110043762675	LOGISTIC SERVICES, INCSLACK WATER HARBOR	3920 DOCK DR	LITTLE ROCK	PULASKI

		-			
24	110043762675	LOGISTIC SERVICES, INCSLACK WATER HARBOR	3920 DOCK DR	LITTLE ROCK	PULASKI
25	110067232649	WELSPUN L YARD CONSTRUCTION	9301 FRAZIER PIKE ROAD	LITTLE ROCK	PULASKI
26	110067232649	WELSPUN L YARD CONSTRUCTION	9301 FRAZIER PIKE ROAD	LITTLE ROCK	PULASKI
27	110070686698	USALCO LITTLE ROCK PLANT, LLC	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
28	110070686698	USALCO LITTLE ROCK PLANT, LLC	7424 LINDSEY ROAD	LITTLE ROCK	PULASKI
29	110025022865	SIMS METAL MANAGEMENT	9900 INDUS.HARBOR DR.	LITTLE ROCK	PULASKI
30	110025022865	SIMS METAL MANAGEMENT	9900 INDUS.HARBOR DR.	LITTLE ROCK	PULASKI
31	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
32	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
33	110070844137	CITY OF LITTLE ROCK	9000 FURCHE DAM PIKE	LITTLE ROCK	PULASKI
34	110070844137	CITY OF LITTLE ROCK	9000 FURCHE DAM PIKE	LITTLE ROCK	PULASKI
35	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
36	110070208600	LRPA GROWTH INITIATIVE	10600 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
37	110024571765	AHTD-JOB NO. 060985	RICHLAND DR. & PLANTATION DR.	LITTLE ROCK	PULASKI
38	110024571765	AHTD-JOB NO. 060985	RICHLAND DR. & PLANTATION DR.	LITTLE ROCK	PULASKI
39	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
40	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
41	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
42	110043498587	DELTA PLASTICS OF THE SOUTH LLC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI
43	110043498587	DELTA PLASTICS OF THE SOUTH LLC	8801 FRAZIER PIKE	LITTLE ROCK	PULASKI
44	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
45	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
46	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
47	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
48	110024975605	LOGISTIC SERVICES, INCARK RIVER TERMINAL	9001 LINDSEY RD.	LITTLE ROCK	PULASKI
49	110024975605	LOGISTIC SERVICES, INCARK RIVER TERMINAL	9001 LINDSEY RD.	LITTLE ROCK	PULASKI
50	110045397487	LARS RECYCLING	9600 INDUSTRIAL HARBOR RD	LITTLE ROCK	PULASKI

51	110045397487	LARS RECYCLING	9600 INDUSTRIAL HARBOR RD	LITTLE ROCK	PULASKI
52	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
53	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
54	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
55	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
56	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
57	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI
58	110070214403	RING CONTAINER TECHNOLOGIES - LITTLE ROCK	9000 FRAZIER PIKE	LITTLE ROCK	PULASKI
59	110070214403	RING CONTAINER TECHNOLOGIES - LITTLE ROCK	9000 FRAZIER PIKE	LITTLE ROCK	PULASKI
60	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI
61	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI
62	110009125160	LITTLE ROCK HARBOR SERVICES	9300 LINDSEY ROAD	LITTLE ROCK	PULASKI

	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72206	34.71	-92.18
2	05119	AR	72206	34.71	-92.18
3	AR119	AR	72206	34.71	-92.17
4	AR119	AR	72206	34.71	-92.17
5	05119	AR	72206	34.71	-92.19
6	05119	AR	72206	34.71	-92.19
7	AR119	AR	00000	34.71	-92.18
8	AR119	AR	00000	34.71	-92.18
9	AR119	AR	72206	34.70	-92.18
10	AR119	AR	72206	34.70	-92.18
11	05119	AR	72206-3829	34.71	-92.19
12	05119	AR	72206-3829	34.71	-92.19
13	05119	AR	72117-9728	34.72	-92.16
14	AR119	AR	72206	34.71	-92.17
15	AR119	AR	72206	34.71	-92.17
16	AR119	AR	72206	34.70	-92.16
17	AR119	AR	72206	34.70	-92.16
18	AR119	AR	72206	34.70	-92.16
19	AR119	AR	72206	34.71	-92.19
20	AR119	AR	72206	34.71	-92.19
21	05119	AR	72206	34.72	-92.20
22	05119	AR	72206	34.72	-92.20
23	AR119	AR	72206	34.71	-92.17
24	AR119	AR	72206	34.71	-92.17
25	AR119	AR	72206	34.70	-92.18
26	AR119	AR	72206	34.70	-92.18
27	AR119	AR	72206	34.71	-92.19
28	AR119	AR	72206	34.71	-92.19
29	05119	AR	72206	34.71	-92.17
30	05119	AR	72206	34.71	-92.17
31	05119	AR	72206	34.71	-92.17
32	05119	AR	72206	34.71	-92.17
33	05119	AR	72206	34.71	-92.19
34	05119	AR	72206	34.71	-92.19
35	05119	AR	72206	34.71	-92.17
36	05119	AR	72206	34.71	-92.17
37	AR119	AR	72201	34.72	-92.19
38	AR119	AR	72201	34.72	-92.19
39	05119	AR	72206-3835	34.71	-92.18
40	05119	AR	72206-3835	34.71	-92.18
41	05119	AR	72206-3835	34.71	-92.18
42	05119	AR	72206	34.71	-92.18

43	05119	AR	72206	34.71	-92.18
44	05119	AR	72206-3865	34.71	-92.18
45	05119	AR	72206-3865	34.71	-92.18
46	05119	AR	72206-3865	34.71	-92.18
47	05119	AR	72206-3865	34.71	-92.18
48	05119	AR	72206-3841	34.72	-92.18
49	05119	AR	72206-3841	34.72	-92.18
50	05119	AR	72206	34.72	-92.17
51	05119	AR	72206	34.72	-92.17
52	05119	AR	72206-3861	34.70	-92.16
53	05119	AR	72206-3861	34.70	-92.16
54	05119	AR	72206-3861	34.70	-92.16
55	05119	AR	72206-3861	34.70	-92.16
56	05119	AR	72206-3861	34.70	-92.16
57	05119	AR	72206-3861	34.70	-92.16
58	AR119	AR	72206	34.70	-92.18
59	AR119	AR	72206	34.70	-92.18
60	05119	AR	72206	34.72	-92.18
61	05119	AR	72206	34.72	-92.18
62	05119	AR	72206	34.72	-92.18

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:34 AM
2	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:37 AM
3	11110207	30	UNKNOWN	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:13 AM
4	11110207	30	UNKNOWN	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:13 AM
5	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	11/22/2008, 9:53 AM
6	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/18/2015, 10:44 AM
7	11110207	9,999	No Data	No Data	11/22/2008, 10:42 AM
8	11110207	9,999	No Data	No Data	8/18/2015, 10:36 AM
9	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	3/4/2013, 6:04 AM
10	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:46 AM
11	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:43 AM
12	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:39 AM
13	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/23/2008, 10:53 AM
14	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM
15	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM
16	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 9:48 AM
17	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/9/2015, 8:28 AM
18	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 9:59 AM
19	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	9/8/2018, 7:00 PM
20	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	9/8/2018, 7:00 PM
21	11110207	No Data	No Data	No Data	9/4/2021, 7:00 PM

22	11110207	No Data	No Data	No Data	9/4/2021, 7:00 PM
23	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/29/2011, 11:52 AM
24	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:28 AM
25	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/5/2016, 4:16 AM
26	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/5/2016, 4:16 AM
27	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/10/2020, 6:00 PM
28	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	2/10/2020, 6:00 PM
29	11110207	No Data	UNKNOWN	No Data	11/22/2008, 9:44 AM
30	11110207	No Data	UNKNOWN	No Data	8/18/2015, 10:44 AM
31	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2018, 7:00 PM
32	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2018, 7:00 PM
33	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
34	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
35	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
36	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/8/2020, 6:00 PM
37	11110207	9,999	No Data	No Data	11/22/2008, 9:49 AM
38	11110207	9,999	No Data	No Data	8/18/2015, 10:22 AM
39	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	4/5/2014, 4:03 AM
40	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/11/2017, 6:00 PM
41	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	11/22/2008, 10:40 AM
42	11110207	30	INTERPOLATION-MAP	ENTRANCE POINT OF A FACILITY OR STATION	5/26/2011, 9:16 PM
43	11110207	30	INTERPOLATION-MAP	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:41 AM

	1	1		1	1
44	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:11 AM
45	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/5/2016, 10:11 AM
46	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:34 AM
47	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:45 AM
48	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	11/22/2008, 9:51 AM
49	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/18/2015, 10:45 AM
50	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/1/2012, 7:02 AM
51	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/18/2015, 10:29 AM
52	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/5/2014, 4:03 AM
53	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:44 AM
54	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 9:53 AM
55	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 9:50 AM
56	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 10:36 AM
57	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:25 AM
58	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM
59	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	4/8/2018, 7:00 PM
60	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2008, 11:36 AM
61	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	8/18/2015, 10:37 AM
62	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 10:42 AM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000170 5101	ARR00A620	NPDES
2	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000170 5101	ARR00A620	NPDES
3	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006934 3197	ARR155232	NPDES
4	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11006934 3197	ARR155232	NPDES
5	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000045 2019	ARR00C043	NPDES
6	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000045 2019	ARR00C043	NPDES
7	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002481 0622	ARF610141	NPDES
8	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002481 0622	ARF610141	NPDES
9	9/3/2016, 7:48 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11005509 2484	ARR001112	NPDES
10	9/3/2016, 7:48 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11005509 2484	ARR001112	NPDES
11	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000339 2052	ARR00A674	NPDES
12	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 2052	ARR00A674	NPDES

13	9/3/2016, 8:00 AM	2/27/2001, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000060 6684	AR0001643	NPDES
14	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007022 0546	ARR155906	NPDES
15	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007022 0546	ARR155906	NPDES
16	2/10/2013, 1:11 AM	7/27/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006461 0791	AR0040177	NPDES
17	No Data	7/27/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006461 0791	AR0040177	NPDES
18	8/9/2016, 2:58 AM	7/27/2020, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006461 0791	AR0040177	NPDES
19	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007026 4029	ARR001735	NPDES
20	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007026 4029	ARR001735	NPDES
21	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007108 0606	ARR157082	NPDES
22	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007108 0606	ARR157082	NPDES
23	9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004376 2675	ARR000716	NPDES
24	9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004376 2675	ARR000716	NPDES
25	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11006723 2649	ARR154912	NPDES

26	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006723 2649	ARR154912	NPDES
27	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007068 6698	ARR001857	NPDES
28	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007068 6698	ARR001857	NPDES
29	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002502 2865	ARR00C196	NPDES
30	9/3/2016, 8:00 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002502 2865	ARR00C196	NPDES
31	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	ARR155959	NPDES
32	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007020 8600	ARR155959	NPDES
33	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007084 4137	ARR156740	NPDES
34	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007084 4137	ARR156740	NPDES
35	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	ARR156735	NPDES
36	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11007020 8600	ARR156735	NPDES
37	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002457 1765	ARR151082	NPDES
38	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11002457 1765	ARR151082	NPDES

39	9/3/2016, 7:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000089 6512	ARR000729	NPDES
40	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000089 6512	ARR000729	NPDES
41	8/9/2016, 2:58 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000089 6512	ARG340015	NPDES
42	9/3/2016, 7:55 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004349 8587	ARR000611	NPDES
43	9/3/2016, 7:55 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004349 8587	ARR000611	NPDES
44	9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	ARR155256	NPDES
45	9/3/2016, 8:01 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	ARR155256	NPDES
46	8/9/2016, 2:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	ARR000405	NPDES
47	8/9/2016, 2:56 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=110031104 622	ARR000405	NPDES
48	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11002497 5605	ARR00B850	NPDES
49	8/9/2016, 2:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11002497 5605	ARR00B850	NPDES
50	9/3/2016, 7:54 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11004539 7487	ARR000957	NPDES
51	9/3/2016, 7:54 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004539 7487	ARR000957	NPDES

	1	1	1	1	1
52	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000052 1310	ARR001276	NPDES
53	9/3/2016, 7:53 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000052 1310	ARR001276	NPDES
54	8/1/2012, 6:48 AM	12/31/2020, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000052 1310	ARL040177	NPDES
55	9/3/2016, 7:53 AM	12/31/2020, 6:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	ARL040177	NPDES
56	8/9/2016, 2:58 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	ARR00A002	NPDES
57	8/9/2016, 2:58 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	ARR00A002	NPDES
58	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11007021 4403	ARR001689	NPDES
59	No Data	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11007021 4403	ARR001689	NPDES
60	9/3/2016, 7:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000912 5160	ARR000393	NPDES
61	9/3/2016, 7:57 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000912 5160	ARR000393	NPDES
62	9/3/2016, 7:52 AM	10/31/2017, 7:00 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000912 5160	AR0048895	NPDES

#	INTEREST_TYPE	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	PGM_REPORT_URL
1	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
2	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
3	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
4	STORM WATER CONSTRUCTION	No Data	Y	TERMINATED	no data yet
5	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
6	STORM WATER INDUSTRIAL	No Data	Y	TERMINATED	no data yet
7	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
8	STORM WATER CONSTRUCTION	No Data	Y	TERMINATED	no data yet
9	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
10	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
11	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
12	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
13	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
14	ICIS-NPDES NON- MAJOR	No Data	Y	EXPIRED	no data yet
15	STORM WATER CONSTRUCTION	No Data	Y	EXPIRED	no data yet
16	ICIS-NPDES MAJOR	http://cfpub.epa.gov/npd es/	Y	EFFECTIVE	no data yet
17	POTW	No Data	Y	EFFECTIVE	no data yet
18	NPDES PRETREATMENT PROGRAM	No Data	Y	EFFECTIVE	no data yet
19	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
20	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
21	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
22	STORM WATER CONSTRUCTION	No Data	Y	EFFECTIVE	no data yet
23	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
24	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
25	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
26	STORM WATER CONSTRUCTION	No Data	Y	TERMINATED	no data yet
27	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet

	1	I		I	
28	STORM WATER INDUSTRIAL	No Data	Υ	EFFECTIVE	no data yet
29	ICIS-NPDES NON- MAJOR	No Data	Υ	TERMINATED	no data yet
30	STORM WATER INDUSTRIAL	No Data	Y	TERMINATED	no data yet
31	STORM WATER CONSTRUCTION	No Data	Y	EXPIRED	no data yet
32	ICIS-NPDES NON- MAJOR	No Data	Y	EXPIRED	no data yet
33	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
34	STORM WATER CONSTRUCTION	No Data	Y	EFFECTIVE	no data yet
35	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
36	STORM WATER CONSTRUCTION	No Data	Y	EFFECTIVE	no data yet
37	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
38	STORM WATER CONSTRUCTION	No Data	Y	TERMINATED	no data yet
39	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
40	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
41	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
42	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
43	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
44	ICIS-NPDES NON- MAJOR	No Data	Y	EXPIRED	no data yet
45	STORM WATER CONSTRUCTION	No Data	Y	EXPIRED	no data yet
46	ICIS-NPDES NON- MAJOR	No Data	Y	TERMINATED	no data yet
47	STORM WATER INDUSTRIAL	No Data	Y	TERMINATED	no data yet
48	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
49	STORM WATER INDUSTRIAL	No Data	Υ	EFFECTIVE	no data yet
50	ICIS-NPDES NON- MAJOR	No Data	Y	EXPIRED	no data yet
51	STORM WATER INDUSTRIAL	No Data	Y	EXPIRED	no data yet
52	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
53	STORM WATER INDUSTRIAL	No Data	Y	EFFECTIVE	no data yet
54	ICIS-NPDES MAJOR	http://cfpub.epa.gov/npd es/	Y	EFFECTIVE	no data yet
55	BIOSOLIDS	No Data	Y	EFFECTIVE	no data yet

56	ICIS-NPDES NON- MAJOR	No Data	Υ	TERMINATED	no data yet
57	STORM WATER INDUSTRIAL	No Data	Y	TERMINATED	no data yet
58	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet
59	STORM WATER INDUSTRIAL	No Data	Υ	EFFECTIVE	no data yet
60	ICIS-NPDES NON- MAJOR	No Data	Υ	EFFECTIVE	no data yet
61	STORM WATER INDUSTRIAL	No Data	Υ	EFFECTIVE	no data yet
62	ICIS-NPDES NON- MAJOR	No Data	Y	EFFECTIVE	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	111102070404	No Data	N	06	NPDESARR00A 620	1
2	No Data	111102070404	No Data	N	06	NPDESARR00A 620	1
3	No Data	No Data	No Data	No Data	06	NPDESARR155 232	1
4	No Data	No Data	No Data	No Data	06	NPDESARR155 232	1
5	No Data	No Data	No Data	N	06	NPDESARR00C 043	1
6	No Data	No Data	No Data	N	06	NPDESARR00C 043	1
7	No Data	111102070404	No Data	N	06	NPDESARF6101 41	1
8	No Data	111102070404	No Data	N	06	NPDESARF6101 41	1
9	No Data	111102070404	No Data	No Data	06	NPDESARR0011 12	1
10	No Data	111102070404	No Data	No Data	06	NPDESARR0011 12	1
11	No Data	No Data	No Data	N	06	NPDESARR00A 674	1
12	No Data	No Data	No Data	N	06	NPDESARR00A 674	1
13	No Data	No Data	No Data	N	06	NPDESAR00016 43	1
14	No Data	No Data	No Data	No Data	06	NPDESARR155 906	1
15	No Data	No Data	No Data	No Data	06	NPDESARR155 906	1
16	No Data	No Data	No Data	N	06	NPDESAR00401 77	1
17	No Data	No Data	No Data	N	06	NPDESAR00401 77	1
18	No Data	No Data	No Data	N	06	NPDESAR00401 77	1
19	No Data	No Data	No Data	No Data	06	NPDESARR001 735	1
20	No Data	No Data	No Data	No Data	06	NPDESARR001 735	1
21	No Data	No Data	No Data	N	06	NPDESARR157 082	1
22	No Data	No Data	No Data	N	06	NPDESARR157 082	1
23	No Data	No Data	No Data	No Data	06	NPDESARR000 716	1
24	No Data	No Data	No Data	No Data	06	NPDESARR000 716	1
25	No Data	No Data	No Data	N	06	NPDESARR154 912	1
26	No Data	No Data	No Data	N	06	NPDESARR154 912	1

27	No Data	No Data	No Data	N	06	NPDESARR001 857	1
28	No Data	No Data	No Data	N	06	NPDESARR001 857	1
29	No Data	111102070404	No Data	N	06	NPDESARR00C 196	1
30	No Data	111102070404	No Data	N	06	NPDESARR00C 196	1
31	No Data	No Data	No Data	N	06	NPDESARR155 959	1
32	No Data	No Data	No Data	N	06	NPDESARR155 959	1
33	No Data	No Data	No Data	N	06	NPDESARR156 740	1
34	No Data	No Data	No Data	N	06	NPDESARR156 740	1
35	No Data	No Data	No Data	N	06	NPDESARR156 735	1
36	No Data	No Data	No Data	N	06	NPDESARR156 735	1
37	No Data	111102070204	No Data	N	06	NPDESARR151 082	1
38	No Data	111102070204	No Data	N	06	NPDESARR151 082	1
39	No Data	111102070404	No Data	N	06	NPDESARR000 729	1
40	No Data	111102070404	No Data	N	06	NPDESARR000 729	1
41	No Data	111102070404	No Data	N	06	NPDESARG340 015	1
42	No Data	111102070404	No Data	N	06	NPDESARR000 611	1
43	No Data	111102070404	No Data	N	06	NPDESARR000 611	1
44	No Data	No Data	No Data	N	06	NPDESARR155 256	1
45	No Data	No Data	No Data	N	06	NPDESARR155 256	1
46	No Data	No Data	No Data	N	06	NPDESARR000 405	1
47	No Data	No Data	No Data	N	06	NPDESARR000 405	1
48	No Data	No Data	No Data	N	06	NPDESARR00B 850	1
49	No Data	No Data	No Data	N	06	NPDESARR00B 850	1
50	No Data	No Data	No Data	N	06	NPDESARR000 957	1
51	No Data	No Data	No Data	N	06	NPDESARR000 957	1
52	No Data	111102070404	No Data	N	06	NPDESARR001 276	1
53	No Data	111102070404	No Data	N	06	NPDESARR001 276	1

54	No Data	111102070404	No Data	N	06	NPDESARL0401 77	1
55	No Data	111102070404	No Data	N	06	NPDESARL0401 77	1
56	No Data	111102070404	No Data	N	06	NPDESARR00A 002	1
57	No Data	111102070404	No Data	N	06	NPDESARR00A 002	1
58	No Data	No Data	No Data	No Data	06	NPDESARR001 689	1
59	No Data	No Data	No Data	No Data	06	NPDESARR001 689	1
60	No Data	No Data	No Data	N	06	NPDESARR000 393	1
61	No Data	No Data	No Data	N	06	NPDESARR000 393	1
62	No Data	No Data	No Data	N	06	NPDESAR00488 95	1

EPA - FRS Interest - NPDES (Major)

	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
10064610791	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE		PULASKI
10000521310	FOURCHE CREEK WATER RECLAMATION FACILITY9500 BIRDWOOD DRIVELITTLE ROCK		LITTLE ROCK	PULASKI
FIPS CODE	STATE CODE	POSTAL CODE	LATITUDE83	LONGITUDE83
R119			34 70	-92.16
				-92.16
1(0000521310 FIPS_CODE	0064610791 WATER RECLAMATION FACILITY 0000521310 FOURCHE CREEK WATER RECLAMATION FACILITY FIPS_CODE STATE_CODE R119 AR	0064610791WATER RECLAMATION FACILITY9500 BIRDWOOD DRIVE0000521310FOURCHE CREEK WATER RECLAMATION FACILITY9500 BIRDWOOD DRIVEFIPS_CODESTATE_CODEPOSTAL_CODER119AR72206	0064610791WATER RECLAMATION FACILITY9500 BIRDWOOD DRIVELITTLE ROCK0000521310FOURCHE CREEK WATER RECLAMATION FACILITY9500 BIRDWOOD DRIVELITTLE ROCKFIPS_CODESTATE_CODEPOSTAL_CODELATITUDE838119AR7220634.70

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 9:48 AM
2	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/22/2008, 9:53 AM

#	UPDATE_DATE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM	INTEREST_TYPE
1	2/10/2013, 1:11 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11006461 0791	AR0040177	NPDES	ICIS-NPDES MAJOR
2	8/1/2012, 6:48 AM	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000052 1310	ARL040177	NPDES	ICIS-NPDES MAJOR

#	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	LAST_REPORTED_DA TE	PGM_REPORT_URL
1	http://cfpub.epa.gov/npd es/	Υ	EFFECTIVE	7/27/2020, 7:00 PM	no data yet
2	http://cfpub.epa.gov/npd es/	Y	EFFECTIVE	12/31/2020, 6:00 PM	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	N	06	NPDESAR00401 77	1
2	No Data	111102070404	No Data	N	06	NPDESARL0401 77	1

EPA - FRS Interest - RCRA (Resource Conservation and Recovery Act Information System)

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
2	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
3	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
4	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
5	110003401480	MHC KENWORTH	8001 EAST PORT DRIVE	LITTLE ROCK	PULASKI
6	110015593623	SSX LC	9500 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
7	110003403567	PHILLIPS PETROLEUM CO SS #2770	8601 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
8	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
9	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
10	110003396218	ERSHIGS INC	8915 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
11	110015673083	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
12	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
13	110003391838	BERENDSEN FLUID POWER INC	7600 FLUID DR	LITTLE ROCK	PULASKI
14	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI

#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72206	34.71	-92.18
2	05119	AR	72206	34.71	-92.19
3	05119	AR	72206-3829	34.71	-92.19
4	05119	AR	72117-9728	34.72	-92.16
5	05119	AR	72206	34.72	-92.19
6	05119	AR	72206-3879	34.72	-92.17
7	05119	AR	72206	34.72	-92.19
8	05119	AR	72206-3835	34.71	-92.18
9	05119	AR	72206-3865	34.71	-92.18
10	05119	AR	72206	34.71	-92.19
11	05119	AR	72206	34.71	-92.19
12	05119	AR	72206	34.71	-92.18
13	05119	AR	72206	34.72	-92.19
14	05119	AR	72206-3861	34.70	-92.16

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	6/24/2019, 7:00 PM
2	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	10/27/2021, 7:00 PM
3	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/30/2011, 4:30 AM
4	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	12/18/2008, 4:50 AM
5	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	10/13/2020, 7:00 PM
6	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2007, 6:59 AM
7	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/23/2007, 6:59 AM
8	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	10/13/2020, 7:00 PM
9	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/7/2021, 7:00 PM
10	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2007, 6:58 AM
11	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	OTHER	10/13/2020, 7:00 PM
12	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/8/2008, 4:52 PM
13	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	12/18/2008, 4:50 AM
14	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/13/2020, 7:00 PM

#	UPDATE_DATE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM	INTEREST_TYPE
1	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000170 5101	ARD082572892	RCRAINFO	UNSPECIFIED UNIVERSE
2	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000045 2019	ARD112906987	RCRAINFO	SQG
3	7/28/2016, 5:24 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000339 2052	AR0000362756	RCRAINFO	LQG
4	8/10/2010, 3:33 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000060 6684	ARD006341705	RCRAINFO	UNSPECIFIED UNIVERSE
5	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000340 1480	ARD983274077	RCRAINFO	UNSPECIFIED UNIVERSE
6	8/10/2010, 3:33 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001559 3623	ARR000012070	RCRAINFO	UNSPECIFIED UNIVERSE
7	8/10/2010, 3:33 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000340 3567	ARD983286287	RCRAINFO	UNSPECIFIED UNIVERSE
8	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000089 6512	ARD981585318	RCRAINFO	UNSPECIFIED UNIVERSE
9	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	ARR000018010	RCRAINFO	OTHER HAZARDOUS WASTE ACTIVITIES
10	8/10/2010, 3:33 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 6218	ARD086639804	RCRAINFO	UNSPECIFIED UNIVERSE
11	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11001567 3083	ARD983274325	RCRAINFO	UNSPECIFIED UNIVERSE
12	3/28/2011, 12:03 PM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11004199 8657	ARD122185192	RCRAINFO	UNSPECIFIED UNIVERSE

13	8/10/2010, 3:33 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000339 1838	AR0000196659	RCRAINFO	UNSPECIFIED UNIVERSE
14	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	AR0000000109	RCRAINFO	UNSPECIFIED UNIVERSE

#	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	LAST_REPORTED_DA TE	PGM_REPORT_URL
1	No Data	Y	Y	No Data	no data yet
2	No Data	Y	Y	No Data	no data yet
3	http://www.epa.gov/osw/ hazard/generation/lqg.ht m	Y	Y	No Data	no data yet
4	No Data	Y	N	No Data	no data yet
5	No Data	Y	Y	No Data	no data yet
6	No Data	Y	N	No Data	no data yet
7	No Data	Y	N	No Data	no data yet
8	No Data	Y	Υ	No Data	no data yet
9	No Data	Y	Y	No Data	no data yet
10	No Data	Y	N	No Data	no data yet
11	No Data	Y	Y	No Data	no data yet
12	No Data	Y	N	No Data	no data yet
13	No Data	Y	N	No Data	no data yet
14	No Data	Υ	Υ	No Data	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	111102070404	No Data	N	06	RCRAINFOARD 082572892	1
2	No Data	No Data	No Data	N	06	RCRAINFOARD 112906987	1
3	No Data	No Data	No Data	N	06	RCRAINFOAR00 00362756	1
4	No Data	No Data	No Data	N	06	RCRAINFOARD 006341705	1
5	No Data	No Data	No Data	N	06	RCRAINFOARD 983274077	1
6	No Data	No Data	No Data	N	06	RCRAINFOARR 000012070	1
7	No Data	No Data	No Data	N	06	RCRAINFOARD 983286287	1
8	No Data	111102070404	No Data	N	06	RCRAINFOARD 981585318	1
9	No Data	No Data	No Data	N	06	RCRAINFOARR 000018010	1
10	No Data	111102070404	No Data	N	06	RCRAINFOARD 086639804	1
11	No Data	No Data	No Data	N	06	RCRAINFOARD 983274325	1
12	No Data	No Data	No Data	N	06	RCRAINFOARD 122185192	1
13	No Data	No Data	No Data	N	06	RCRAINFOAR00 00196659	1
14	No Data	111102070404	No Data	N	06	RCRAINFOAR00 00000109	1

EPA - FRS Interest - RCRA (Active)

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110001705101	SKIPPY FOODS	8201 FRAZIER PIKE	LITTLE ROCK	PULASKI
2	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
3	110003392052	INTERSTATE HIGHWAY SIGN CORP.	7415 LINDSEY ROAD	LITTLE ROCK	PULASKI
4	110003401480	MHC KENWORTH	8001 EAST PORT DRIVE	LITTLE ROCK	PULASKI
5	110000896512	SAFETY KLEEN	8401 LINDSEY ROAD	LITTLE ROCK	PULASKI
6	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
7	110015673083	TY GARMENTS	8909 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
8	110000521310	FOURCHE CREEK WATER RECLAMATION FACILITY	9500 BIRDWOOD DRIVE	LITTLE ROCK	PULASKI

#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72206	34.71	-92.18
2	05119	AR	72206	34.71	-92.19
3	05119	AR	72206-3829	34.71	-92.19
4	05119	AR	72206	34.72	-92.19
5	05119	AR	72206-3835	34.71	-92.18
6	05119	AR	72206-3865	34.71	-92.18
7	05119	AR	72206	34.71	-92.19
8	05119	AR	72206-3861	34.70	-92.16

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	6/24/2019, 7:00 PM
2	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	10/27/2021, 7:00 PM
3	11110207	3	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/30/2011, 4:30 AM
4	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	10/13/2020, 7:00 PM
5	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	10/13/2020, 7:00 PM
6	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	7/7/2021, 7:00 PM
7	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	OTHER	10/13/2020, 7:00 PM
8	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	10/13/2020, 7:00 PM

#	UPDATE_DATE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM	INTEREST_TYPE
1	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000170 5101	ARD082572892	RCRAINFO	UNSPECIFIED UNIVERSE
2	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail .disp_program_facility? p_registry_id=11000045 2019	ARD112906987	RCRAINFO	SQG
3	7/28/2016, 5:24 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000339 2052	AR0000362756	RCRAINFO	LQG
4	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000340 _1480	ARD983274077	RCRAINFO	UNSPECIFIED UNIVERSE
5	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000089 6512	ARD981585318	RCRAINFO	UNSPECIFIED UNIVERSE
6	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	ARR000018010	RCRAINFO	OTHER HAZARDOUS WASTE ACTIVITIES
7	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11001567 3083	ARD983274325	RCRAINFO	UNSPECIFIED UNIVERSE
8	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000052 1310	AR000000109	RCRAINFO	UNSPECIFIED UNIVERSE
#	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	LAST_REPORTED_DA TE	PGM_REPORT_URL
1	No Data	Y	Y	No Data	no data yet

				TE	· · ··· <u>·</u> · ···· <u>·</u> · ····
1	No Data	Y	Υ	No Data	no data yet
2	No Data	Y	Y	No Data	no data yet
3	http://www.epa.gov/osw/ hazard/generation/lqg.ht m	Y	Y	No Data	no data yet
4	No Data	Y	Υ	No Data	no data yet
5	No Data	Y	Υ	No Data	no data yet
6	No Data	Y	Y	No Data	no data yet
7	No Data	Y	Y	No Data	no data yet
8	No Data	Y	Y	No Data	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	111102070404	No Data	Ν	06	RCRAINFOARD 082572892	1
2	No Data	No Data	No Data	N	06	RCRAINFOARD 112906987	1
3	No Data	No Data	No Data	N	06	RCRAINFOAR00 00362756	1
4	No Data	No Data	No Data	N	06	RCRAINFOARD 983274077	1
5	No Data	111102070404	No Data	N	06	RCRAINFOARD 981585318	1
6	No Data	No Data	No Data	N	06	RCRAINFOARR 000018010	1
7	No Data	No Data	No Data	N	06	RCRAINFOARD 983274325	1
8	No Data	111102070404	No Data	N	06	RCRAINFOAR00 00000109	1

EPA - FRS Interest - RCRA (Inactive)

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
2	110015593623	SSX LC	9500 INDUSTRIAL HARBOR DR	LITTLE ROCK	PULASKI
3	110003403567	PHILLIPS PETROLEUM CO SS #2770	8601 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
4	110003396218	ERSHIGS INC	8915 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
5	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI
6	110003391838	BERENDSEN FLUID POWER INC	7600 FLUID DR	LITTLE ROCK	PULASKI

#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72117-9728	34.72	-92.16
2	05119	AR	72206-3879	34.72	-92.17
3	05119	AR	72206	34.72	-92.19
4	05119	AR	72206	34.71	-92.19
5	05119	AR	72206	34.71	-92.18
6	05119	AR	72206	34.72	-92.19

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	12/18/2008, 4:50 AM
2	11110207	50	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2007, 6:59 AM
3	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	11/23/2007, 6:59 AM
4	11110207	150	ADDRESS MATCHING- HOUSE NUMBER	ENTRANCE POINT OF A FACILITY OR STATION	11/23/2007, 6:58 AM
5	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	1/8/2008, 4:52 PM
6	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	12/18/2008, 4:50 AM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_guery_detail _disp_program_facility? p_registry_id=11000060 6684	ARD006341705	RCRAINFO
2	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11001559 3623	ARR000012070	RCRAINFO
3	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000340 3567	ARD983286287	RCRAINFO
4	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 6218	ARD086639804	RCRAINFO
5	3/28/2011, 12:03 PM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004199 8657	ARD122185192	RCRAINFO
6	8/10/2010, 3:33 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11000339 1838	AR0000196659	RCRAINFO

#	INTEREST_TYPE	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	PGM_REPORT_URL
1	UNSPECIFIED UNIVERSE	No Data	Y	Ν	no data yet
2	UNSPECIFIED UNIVERSE	No Data	Y	Ν	no data yet
3	UNSPECIFIED UNIVERSE	No Data	Y	N	no data yet
4	UNSPECIFIED UNIVERSE	No Data	Y	N	no data yet
5	UNSPECIFIED UNIVERSE	No Data	Y	Ν	no data yet
6	UNSPECIFIED UNIVERSE	No Data	Y	Ν	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	Ν	06	RCRAINFOARD 006341705	1
2	No Data	No Data	No Data	N	06	RCRAINFOARR 000012070	1
3	No Data	No Data	No Data	N	06	RCRAINFOARD 983286287	1
4	No Data	111102070404	No Data	N	06	RCRAINFOARD 086639804	1
5	No Data	No Data	No Data	N	06	RCRAINFOARD 122185192	1
6	No Data	No Data	No Data	N	06	RCRAINFOAR00 00196659	1

EPA - FRS Interest - RCRA (Large Quantity Generator)

#	CITY_NAME	FIPS_CODE	STATE_CODE	LATITUDE83	HUC8_CODE
1	LITTLE ROCK	05119	AR	34.71	11110207
#	FAC_URL	PGM_SYS_ID	PUBLIC_IND	REGISTRY_ID	PRIMARY_NAME
1	https://ofmpub.epa.gov/fr s_public2/fii_query_detai I.disp_program_facility? p_registry_id=11000339 2052	AR0000362756	Y	110003392052	INTERSTATE HIGHWAY SIGN CORP.
#	LOCATION_ADDRESS	COUNTY_NAME	POSTAL_CODE	LONGITUDE83	ACCURACY_VALUE
1	7415 LINDSEY ROAD	PULASKI	72206-3829	-92.19	3
#	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE	UPDATE_DATE	LAST_REPORTED_DA TE
1	GPS - UNSPECIFIED	ENTRANCE POINT OF A FACILITY OR STATION	8/30/2011, 4:30 AM	7/28/2016, 5:24 AM	No Data
#	PGM_SYS_ACRNM	INTEREST_TYPE	PROGRAM_URL	ACTIVE_STATUS	PGM_REPORT_URL
1	RCRAINFO	LQG	http://www.epa.gov/osw/ hazard/generation/lgg.ht m	Y	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	N	06	RCRAINFOAR00 00362756	1

EPA - FRS Interest - TRI (Toxic Release Inventory System)

#	REGISTRY_ID	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	COUNTY_NAME
1	110000452019	PROSPECT STEEL COMPANY	8900 FOURCHE DAM PIKE	LITTLE ROCK	PULASKI
2	110000606684	GEORGIA-PACIFIC CORP	9013 HIGHWAY 165 SOUTH	NORTH LITTLE ROCK	PULASKI
3	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
4	110031104622	LM WINDPOWER BLADES (USA) INC.	8000 FRAZIER PIKE	LITTLE ROCK	PULASKI COUNTY
5	110041998657	JOHN MANEELY CO- WHEATLAND TUBE DIV-LR PL	8200 FRAZIER PIKE	LITTLE ROCK	PULASKI

#	FIPS_CODE	STATE_CODE	POSTAL_CODE	LATITUDE83	LONGITUDE83
1	05119	AR	72206	34.71	-92.19
2	05119	AR	72117-9728	34.72	-92.16
3	05119	AR	72206-3865	34.71	-92.18
4	05119	AR	72206-3865	34.71	-92.18
5	05119	AR	72206	34.71	-92.18

#	HUC8_CODE	ACCURACY_VALUE	COLLECT_MTH_DESC	REF_POINT_DESC	CREATE_DATE
1	11110207	30	ADDRESS MATCHING- HOUSE NUMBER	CENTER OF A FACILITY OR STATION	8/30/2013, 3:30 AM
2	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	FACILITY/MONITORING SITE BOUNDARY POINT	6/19/2000, 6:36 PM
3	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	8/30/2013, 3:31 AM
4	11110207	3	INTERPOLATION- PHOTO	ENTRANCE POINT OF A FACILITY OR STATION	12/31/2015, 8:34 AM
5	11110207	No Data	THE GEOGRAPHIC COORDINATE DETERMINATION METHOD BASED ON GPS	SOLID WASTE STORAGE AREA	6/17/2000, 6:26 AM

#	UPDATE_DATE	LAST_REPORTED_DA TE	FAC_URL	PGM_SYS_ID	PGM_SYS_ACRNM
1	7/12/2016, 6:14 AM	6/28/2021, 10:00 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000045 2019	72206PRSPC8900F	TRIS
2	12/31/2015, 8:37 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=11000060 6684	72117SPRWDHWY16	TRIS
3	6/29/2016, 9:59 AM	6/26/2019, 10:16 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	72206LMGLS8FRAZ	TRIS
4	No Data	4/22/2021, 11:53 AM	https://ofmpub.epa.gov/fr s_public2/fii_query_detail _disp_program_facility? p_registry_id=110031104 622	7220WLMGLS8FRAZ	TRIS
5	12/31/2015, 8:37 AM	No Data	https://ofmpub.epa.gov/fr s_public2/fii_query_detail .disp_program_facility? p_registry_id=11004199 8657	72206MGTBN8523F	TRIS

#	INTEREST_TYPE	PROGRAM_URL	PUBLIC_IND	ACTIVE_STATUS	PGM_REPORT_URL
1	TRI REPORTER	http://www.epa.gov/tri/	Y	ACTIVE	no data yet
2	TRI REPORTER	http://www.epa.gov/tri/	Y	ACTIVE	no data yet
3	TRI REPORTER	http://www.epa.gov/tri/	Y	ACTIVE	no data yet
4	TRI REPORTER	http://www.epa.gov/tri/	Υ	ACTIVE	no data yet
5	TRI REPORTER	http://www.epa.gov/tri/	Y	ACTIVE	no data yet

#	FEDERAL_AGE NCY_NAME	HUC_12	FEDERAL_LAN D_IND	FED_FACILITY_ CODE	EPA_REGION_C ODE	KEY_FIELD	Count
1	No Data	No Data	No Data	Ν	06	TRIS72206PRS PC8900F	1
2	No Data	No Data	No Data	No Data	06	TRIS72117SPR WDHWY16	1
3	No Data	No Data	No Data	N	06	TRIS72206LMG LS8FRAZ	1
4	No Data	No Data	No Data	N	06	TRIS7220WLMG LS8FRAZ	1
5	No Data	No Data	No Data	N	06	TRIS72206MGT BN8523F	1

305B_NP21 - Assessed Waters Line

#	PERMANENT_IDENTIFI ER	EVENTDATE	REACHCODE	REACHSMDATE	REACHRESOLUTION
1	{F2C579D2-4A5B-1AEF- E043-0100007FBBEC}	No Data	11110207008087	8/29/2005, 7:00 PM	Medium
2	{F2C579D2-4A6E-1AEF- E043-0100007FBBEC}	No Data	11110207008090	8/29/2005, 7:00 PM	Medium
3	{F2C579D2-4A68-1AEF- E043-0100007FBBEC}	No Data	11110207001026	8/14/2001, 7:00 PM	Medium
4	{F2C579D2-4A6F-1AEF- E043-0100007FBBEC}	No Data	11110207008091	8/29/2005, 7:00 PM	Medium
5	{F2C579D2-4A5C- 1AEF-E043- 0100007FBBEC}	No Data	11110207008088	8/29/2005, 7:00 PM	Medium
6	{F2C579D2-4A5D- 1AEF-E043- 0100007FBBEC}	No Data	11110207008089	8/29/2005, 7:00 PM	Medium

#	FEATURE_PERMANEN T_IDENTIFIER	SOURCE_ORIGINATOR	SOURCE_DATADESC	SOURCE_FEATUREID	FEATUREDETAILURL
1	No Data	AR	No Data	AR-3C-11110207-008	http://ofmpub.epa.gov/wa ters10/attains_waterbody .control?p_au_id=AR- 3C-11110207- 008&p_cycle=2008
2	No Data	AR	No Data	AR-3C-11110207-011	http://ofmpub.epa.gov/wa ters10/attains_waterbody .control?p_au_id=AR- 3C-11110207- 011&p_cycle=2008
3	No Data	AR	No Data	AR-3C-11110207-010	http://ofmpub.epa.gov/wa ters10/attains_waterbody .control?p_au_id=AR- 3C-11110207- 010&p_cycle=2008
4	No Data	AR	No Data	AR-3C-11110207-011	http://ofmpub.epa.gov/wa ters10/attains_waterbody .control?p_au_id=AR- 3C-11110207- 011&p_cycle=2008
5	No Data	AR	No Data	AR-3C-11110207-008	http://ofmpub.epa.gov/wa ters10/attains_waterbody .control?p_au_id=AR- 3C-11110207- 008&p_cycle=2008
6	No Data	AR	No Data	AR-3C-11110207-008	http://ofmpub.epa.gov/wa ters10/attains_waterbody .control?p_au_id=AR- 3C-11110207- 008&p_cycle=2008

#	FMEASURE	TMEASURE	EVENTOFFSET	EVENT_LENGTHKM	GEOGSTATE
1	0.00	100.00	0.00	3.44	AR
2	0.00	100.00	0.00	1.29	AR
3	0.00	100.00	0.00	1.70	AR
4	0.00	100.00	0.00	3.93	AR
5	0.00	100.00	0.00	1.75	AR
6	0.00	100.00	0.00	5.02	AR

#	CYCLE_YEAR	START_DATE	END_DATE	WBD_HUC12	WBD_HUC12_PERCEN T
1	2008	3/31/2008, 7:00 PM	No Data	111102070404	1.00
2	2008	3/31/2008, 7:00 PM	No Data	111102070402	1.00
3	2008	3/31/2008, 7:00 PM	No Data	111102070204	0.99
4	2008	3/31/2008, 7:00 PM	No Data	111102070402	1.00
5	2008	3/31/2008, 7:00 PM	No Data	111102070404	1.00
6	2008	3/31/2008, 7:00 PM	No Data	111102070404	1.00

#	NAVIGABLE	FEATURECLASSR EF	EVENTTYPE	VERTICES	ESRI_KEY	Length(ft)
1	Y	No Data	305(b) Assessed Waters	14	AR-3C-11110207- 008<<=>>2008	277.75
2	Y	No Data	305(b) Assessed Waters	93	AR-3C-11110207- 011<<=>>2008	4,264.82
3	Y	No Data	305(b) Assessed Waters	14	AR-3C-11110207- 010<<=>>2008	4,484.04
4	Y	No Data	305(b) Assessed Waters	16	AR-3C-11110207- 011<<=>>2008	5,439.05
5	Y	No Data	305(b) Assessed Waters	126	AR-3C-11110207- 008<<=>>2008	5,764.03
6	Y	No Data	305(b) Assessed Waters	20	AR-3C-11110207- 008<<=>>2008	16,455.42

NHD Watercourse Flow Line

#	PERMANENT_IDENTIFI ER	COMID	FDATE	RESOLUTION	GNIS_ID
1	22848175	22,848,175	7/29/2009, 7:00 PM	Medium	78956
2	22846647	22,846,647	9/24/1999, 7:00 PM	Medium	No Data
3	22848125	22,848,125	7/29/2009, 7:00 PM	Medium	No Data
4	22846715	22,846,715	8/14/2001, 7:00 PM	Medium	No Data
5	22848123	22,848,123	7/29/2009, 7:00 PM	Medium	78956
6	22848155	22,848,155	7/29/2009, 7:00 PM	Medium	No Data
7	22846827	22,846,827	9/24/1999, 7:00 PM	Medium	No Data
8	22848153	22,848,153	7/29/2009, 7:00 PM	Medium	78956

#	GNIS_NAME	LENGTHKM	REACHCODE	FLOWDIR	WBAREA_PERMANEN T_IDENTIFIER
1	Arkansas River	3.44	11110207008087	WithDigitized	22845449
2	No Data	0.69	11110207002329	WithDigitized	No Data
3	No Data	1.29	11110207008090	WithDigitized	22845449
4	No Data	1.70	11110207001026	WithDigitized	No Data
5	Arkansas River	3.93	11110207008091	WithDigitized	22845449
6	No Data	1.75	11110207008088	WithDigitized	22845449
7	No Data	2.57	11110207002320	WithDigitized	No Data
8	Arkansas River	5.02	11110207008089	WithDigitized	22845449

#	WBAREA_COMID	FTYPE	FCODE	REACHSMDATE	FMEASURE
1	22,845,449	Artificial Path	Artificial Path	8/29/2005, 7:00 PM	0.00
2	No Data	StreamRiver	Stream/River: Hydrographic Category = Perennial	9/24/1999, 7:00 PM	0.00
3	22,845,449	Artificial Path	Artificial Path	8/29/2005, 7:00 PM	0.00
4	No Data	StreamRiver	Stream/River: Hydrographic Category = Perennial	8/14/2001, 7:00 PM	0.00
5	22,845,449	Artificial Path	Artificial Path	8/29/2005, 7:00 PM	0.00
6	22,845,449	Artificial Path	Artificial Path	8/29/2005, 7:00 PM	0.00
7	No Data	StreamRiver	Stream/River: Hydrographic Category = Intermittent	9/24/1999, 7:00 PM	0.00
8	22,845,449	Artificial Path	Artificial Path	8/29/2005, 7:00 PM	0.00

#	TMEASURE	WBD_HUC12	WBD_HUC12_PERCEN T	CATCHMENT_FEATUR EID	NHDPLUS_REGION
1	100.00	111102070404	-7,777.00	22,848,175	11
2	100.00	111102070402	-7,777.00	22,846,647	11
3	100.00	111102070402	-7,777.00	22,848,125	11
4	100.00	111102070204	-7,777.00	22,846,715	11
5	100.00	111102070402	-7,777.00	22,848,123	11
6	100.00	111102070404	-7,777.00	22,848,155	11
7	100.00	111102070404	-7,777.00	22,846,827	11
8	100.00	111102070404	-7,777.00	22,848,153	11

#	NHDPLUS_VERSION	NAVIGABLE	Length(ft)
1	021_06	Y	277.76
2	021_06	Y	1,742.16
3	021_06	Y	4,264.81
4	021_06	Y	4,484.04
5	021_06	Y	5,439.05
6	021_06	Y	5,764.03
7	021_06	Y	8,399.74
8	021_06	Y	16,455.42

Watershed Catchment

#	SOURCEFC	AREASQKM	FEATUREID	GRIDCODE	WBD_HUC12
1	NHDFlowline	4.77	22,848,175	1,333,722.00	111102070404
2	NHDFlowline	5.94	22,846,929	1,333,132.00	111102070404
3	NHDFlowline	0.31	22,846,647	1,333,240.00	111102070402
4	NHDFlowline	1.84	22,846,693	1,333,087.00	111102070204
5	NHDFlowline	0.67	22,846,743	1,332,532.00	111102070204
6	NHDFlowline	0.63	22,848,125	1,334,014.00	111102070402
7	NHDFlowline	1.16	22,846,715	1,333,078.00	111102070204
8	NHDFlowline	31.24	22,848,123	1,333,932.00	111102070402
9	NHDFlowline	2.37	22,848,155	1,333,996.00	111102070404
10	NHDFlowline	6.80	22,846,827	1,333,525.00	111102070404
11	NHDFlowline	15.94	22,848,153	1,334,107.00	111102070404

#	WBD_HUC12_PERCENT	VPUID	VPUVERSION	Area(acres)
1	1.00	11	021_03	6.86
2	1.00	11	021_03	16.34
3	0.99	11	021_03	57.57
4	1.00	11	021_03	72.06
5	0.83	11	021_03	109.53
6	0.99	11	021_03	155.75
7	1.00	11	021_03	256.01
8	1.00	11	021_03	467.80
9	1.00	11	021_03	537.28
10	1.00	11	021_03	1,245.56
11	1.00	11	021_03	2,061.86

NHD NP21 Waterbody

#	PERMANENT_IDENTIFI ER	COMID	FDATE	RESOLUTION	GNIS_ID
1	22845537	22,845,537	9/24/1999, 7:00 PM	Medium	No Data
2	22845549	22,845,549	9/24/1999, 7:00 PM	Medium	No Data
3	22845539	22,845,539	9/24/1999, 7:00 PM	Medium	No Data
4	22845555	22,845,555	9/24/1999, 7:00 PM	Medium	No Data
5	22845449	22,845,449	8/29/2005, 7:00 PM	Medium	79591
#		AREASQKM	ELEVATION	REACHCODE	FTYPE
#	GNIS_NAME	AREASQNM	ELEVATION	REACHCODE	FITE
1	No Data	0.02	0.00	11110207001953	LakePond
2	No Data	0.02	0.00	11110207001962	LakePond
3	No Data	0.04	0.00	11110207001955	LakePond
4	No Data	0.06	0.00	11110207001964	LakePond
5	Murray Lake	17.45	70.00	11110207002248	LakePond

#	FCODE	REACHSMDATE	WBD_HUC12	WBD_HUC12_PERCEN T	NHDREACH_CAC
1	Lake/Pond: Hydrographic Category = Perennial	9/24/1999, 7:00 PM	111102070402	1.00	1.00
2	Lake/Pond: Hydrographic Category = Perennial	9/24/1999, 7:00 PM	111102070404	1.00	1.00
3	Lake/Pond: Hydrographic Category = Perennial	9/24/1999, 7:00 PM	111102070402	1.00	1.00
4	Lake/Pond: Hydrographic Category = Perennial	9/24/1999, 7:00 PM	111102070404	1.00	1.00
5	Lake/Pond: Hydrographic Category = Perennial; Stage = Average Water Elevation	8/29/2005, 7:00 PM	111102070404	0.53	0.47

#	NHDPLUS_REGION	NHDPLUS_VERSION	Area(acres)
1	11	021_06	3.92
2	11	021_06	5.75
3	11	021_06	9.58
4	11	021_06	14.42
5	11	021_06	1,448.70

Subwatershed (HUC12)

#	HUC_8	HUC_10	HUC_12	HU_10_NAME	HU_10_MOD
1	11110207	1111020702	111102070204	Little Fourche Creek- Fourche Creek	NM
2	11110207	1111020704	111102070402	Fourche Creek-Arkansas River	NM
3	11110207	1111020704	111102070404	Fourche Creek-Arkansas River	NM

#	HU_10_TYPE	HU_12_NAME	HU_12_MOD	HU_12_TYPE	HU_8_NAME	Area(acres)
1	S	Coleman Creek- Maumelle River	NM	S	Lower Arkansas- Maumelle	435.89
2	S	Faulkner Lake- Arkansas River	NM	S	Lower Arkansas- Maumelle	680.30
3	S	Fourche Creek- Arkansas River	NM	S	Lower Arkansas- Maumelle	3,870.42

Flood Hazard Zones

#	FLD_AR_ID	STUDY_TYP	FLD_ZONE	ZONE_SUBTY	SFHA_TF	Area(acres)
1	05119C_4070	NP	AE	FLOODWAY	Т	7.98
2	05119C_448	NP	AE	No Data	Т	0.46
3	05119C_449	NP	AE	No Data	Т	0.31
4	05119C_1163	NP	AE	No Data	Т	12.45
5	05119C_4079	NP	AE	No Data	Т	765.88
6	05119C_4092	NP	AE	FLOODWAY	Т	2,233.40
7	05119C_1054	NP	AE	No Data	Т	34.15
8	05119C_1055	NP	AE	No Data	Т	0.01
9	05119C_1056	NP	AE	No Data	Т	27.30
10	05119C_1951	NP	AE	No Data	Т	2.24
11	05119C_2892	NP	AE	No Data	Т	0.09
12	05119C_3382	NP	AE	No Data	Т	0.03
13	05119C_3985	NP	AE	No Data	Т	49.85
14	05119C_4000	NP	AE	No Data	Т	371.91
15	05119C_130	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.06
16	05119C_131	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.71
17	05119C_132	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	16.99
18	05119C_133	NP	X	AREA OF MINIMAL FLOOD HAZARD	F	0.17
19	05119C_134	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.05
20	05119C_135	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.26
21	05119C_136	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.09
22	05119C_137	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.16
23	05119C_159	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.09
24	05119C_161	NP	x	AREA WITH REDUCED FLOOD RISK DUE TO LEVEE	F	6.86
25	05119C_166	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	1.74
26	05119C_167	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	6.06
27	05119C_1926	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.75
28	05119C_3115	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	28.67
29	05119C_3116	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	14.48
30	05119C_2604	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	24.52

31	05119C_1160	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.22
32	05119C_1161	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.29
33	05119C_447	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.30
34	05119C_1162	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	1.60
35	05119C_521	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	3.34
36	05119C_550	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	0.19
37	05119C_1952	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	1.37
38	05119C_2065	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.68
39	05119C_2066	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.26
40	05119C_2067	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.18
41	05119C_2068	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.38
42	05119C_2069	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.05
43	05119C_2070	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.09
44	05119C_2071	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	1.31
45	05119C_2072	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	0.89
46	05119C_2344	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	21.61
47	05119C_2353	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	9.11
48	05119C_2920	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	2.41
49	05119C_2921	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	32.09
50	05119C_3131	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	0.08
51	05119C_3132	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	0.06
52	05119C_3133	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.08
53	05119C_3134	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.09

			-	-		
54	05119C_3135	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.31
55	05119C_3136	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.10
56	05119C_3137	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.10
57	05119C_3138	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.43
58	05119C_3139	NP	x	AREA OF MINIMAL FLOOD HAZARD	F	0.17
59	05119C_3140	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	0.09
60	05119C_3141	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	0.18
61	05119C_3434	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	0.39
62	05119C_3986	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	6.35
63	05119C_3991	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	302.10
64	05119C_3996	NP	х	AREA OF MINIMAL FLOOD HAZARD	F	103.11
65	05119C_3997	NP	x	AREA WITH REDUCED FLOOD RISK DUE TO LEVEE	F	479.74
66	05119C_3999	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	403.94
67	05119C_4105	NP	x	0.2 PCT ANNUAL CHANCE FLOOD HAZARD	F	5.21

USA Wetlands -NWI

#	Wetland Code	Wetland Type	System	Class	Subsystem Name	Area(acres)
1	PEM1Ch	Freshwater Emergent Wetland	Р	EM1	No Data	0.59
2	R5UBH	Riverine	R5	UB	No Data	0.64
3	PUBF	Freshwater Pond	Р	UB	No Data	0.68
4	PSS1Cx	Freshwater Forested/Shrub Wetland	Р	SS1	No Data	1.08
5	PFO1Ax	Freshwater Forested/Shrub Wetland	Ρ	FO1	No Data	2.13
6	R5UBFx	Riverine	R5	UB	No Data	2.29
7	R4SBC	Riverine	R4	SB	Intermittent	2.59
8	PSS1Ch	Freshwater Forested/Shrub Wetland	Ρ	SS1	No Data	3.28
9	PSS1C	Freshwater Forested/Shrub Wetland	Р	SS1	No Data	3.33
10	PFO1C	Freshwater Forested/Shrub Wetland	Р	FO1	No Data	3.41
11	PEM1A	Freshwater Emergent Wetland	Р	EM1	No Data	5.41
12	PUBH	Freshwater Pond	Р	UB	No Data	6.37
13	PFO1Ch	Freshwater Forested/Shrub Wetland	Ρ	FO1	No Data	14.30
14	PUBKx	Freshwater Pond	Р	UB	No Data	16.68
15	L2USAh	Lake	L2	US	Litoral	17.45
16	PUBHh	Freshwater Pond	Р	UB	No Data	18.22
17	L1UBKx	Lake	L1	UB	Limnetic	23.07
18	PSS1Ah	Freshwater Forested/Shrub Wetland	Ρ	SS1	No Data	30.53
19	L1UBHx	Lake	L1	UB	Limnetic	34.48
20	PUBHx	Freshwater Pond	P	UB	No Data	36.57
21	PFO1A	Freshwater Forested/Shrub Wetland	Ρ	FO1	No Data	47.53
22	PFO1Ah	Freshwater Forested/Shrub Wetland	Ρ	FO1	No Data	210.54
23	L1UBHh	Lake	L1	UB	Limnetic	1,511.72

FWS_HQ_BA_Ecoregions

#	ECONUM	ECOSYSTEM	GlobalID	ShapeArea	ShapeLength	Area(acres)
1	27	Lower Mississippi River	e8d7d023-8991- 410d-bbcc- ce9e6279819a	25.472271	72.562677	1,478.93
2	15	Arkansas/Red Rivers	d55c4cfc-57a3- 45e3-8394- 148e835ec76e	58.005025	57.040129	3,507.69

USACOE - Regulatory Boundary

#	DISTRICT	DISTRICT_A	DISTRICT_N	WEB_ADDR	DIST_ABBR	Area(acres)
1	Little Rock	Little Rock District, CESWL-RO, PO Box 867, Little Rock, AR 72203- 0867	501-324-5295	<u>http://www.swl.usac</u> <u>e.army.mil/Missions/</u> <u>Regulatory.aspx</u>	SWL	4,986.62

USACOE - Regional Supplement

#	MLRA_NAME	LRR_NAME	REGION	Area(acres)
1	Southern Coastal Plain	South Atlantic and Gulf Slope Cash Crops, Forest, and Livestock Region	Atlantic and Gulf Coastal Plain	4,986.62

This application shall be used for preliminary review purposes only and professional due diligence shall be conducted prior to project development.



Appendix C

Representative Site Photos



Photo 1 – Representative photo of the southern bank of the Arkansas River and current mooring at a deadman anchor (see steel cable on left side of photo) at Location 1. Replacement of 8 existing deteriorated deadman anchors with the installation of 22 mooring dolphins waterward of the shoreline will take place at this location.



Photo 2 – Photo of barge moored at Location 1. Current conditions show modified shoreline with riprap and maintained upland areas within the Port of Little Rock.



Photo 3 – Representative photo of the north end of Location 1 along the Arkansas River. Photo depicts existing conditions within Location 1 including industrial development. Proposed mooring dolphins will be located waterward of shoreline (right).

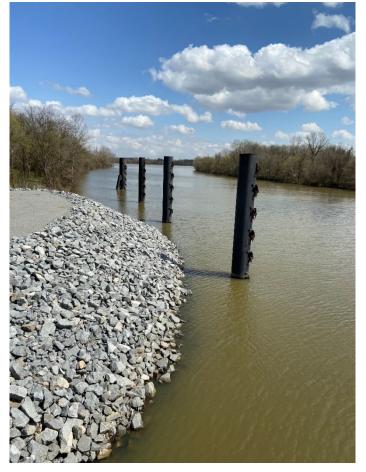


Photo 4 – Example of mooring dolphins currently present at Location 2 in Slackwater Harbor. Note the shoreline is modified with riprap. Proposed project activities will include the installation of similar mooring dolphins waterward of the shoreline in Location 2.

hdrinc.com

1201 Market Street, Suite C, Chattanooga, TN 37402-2714 (423)414-3551

FJS

West Elevation

© 98°E (T) ● 34.709863°N, 92.159469°W ±13ft ▲ 232ft



Photo 5 – Current conditions along the shoreline within the eastern portion of Location 2 facing the Arkansas River. Proposed mooring dolphins would be installed within Slackwater Harbor (right) away from the shoreline.

North East Elevation

© 225°SW (T) ● 34.710096°N, 92.167164°W ±13ft ▲ 237ft



Photo 6 – Current conditions along the shoreline within the western portion of Location 2 facing inland towards the Port of Little Rock. Proposed mooring dolphins would be installed within Slackwater Harbor (left) away from the shoreline.

North West Elevation



Photo 7 – Current conditions within Location 1 facing southeast (downstream) along the Arkansas River. Proposed mooring dolphins would be installed within the Arkansas River (left) away from the shoreline.

South East Elevation



Photo 8 – Current conditions within Location 3 facing northwest (upstream) along the Arkansas River. Proposed mooring dolphins would be installed within the Arkansas River (right) away from the shoreline.



Photo 9 – Current conditions within Location 3 facing southeast along the Arkansas River. Note the currently moored barge within Location 3 as well as the tow used to shuttle barges within the Port of Little Rock (background).

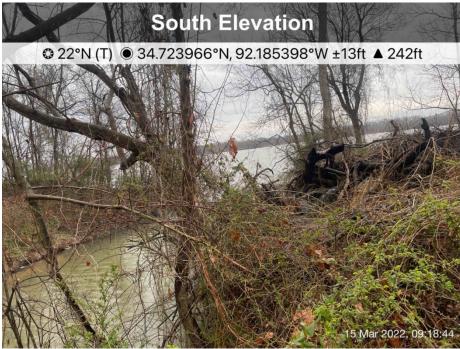


Photo 10 – Potential stream that traverses the northern end of Location 3. No impacts are anticipated to occur at this stream since mooring dolphins will be installed from the water. FJS



Photo 11 – Representative photo of potential wetland located within Location 3. Small areas of potential wetland were observed inland from the Arkansas River shoreline in Location 3. No impacts are anticipated to occur at this stream since mooring dolphins will be installed from the water.



© 312°NW (T) ● 34.715465°N, 92.164382°W ±13ft ▲ 234ft



Photo 12 – Representative photo of potential wetland located along the shoreline within the northern portion of Location 1. No impacts are anticipated to occur at this wetland since mooring dolphins will be installed from the water. FJS

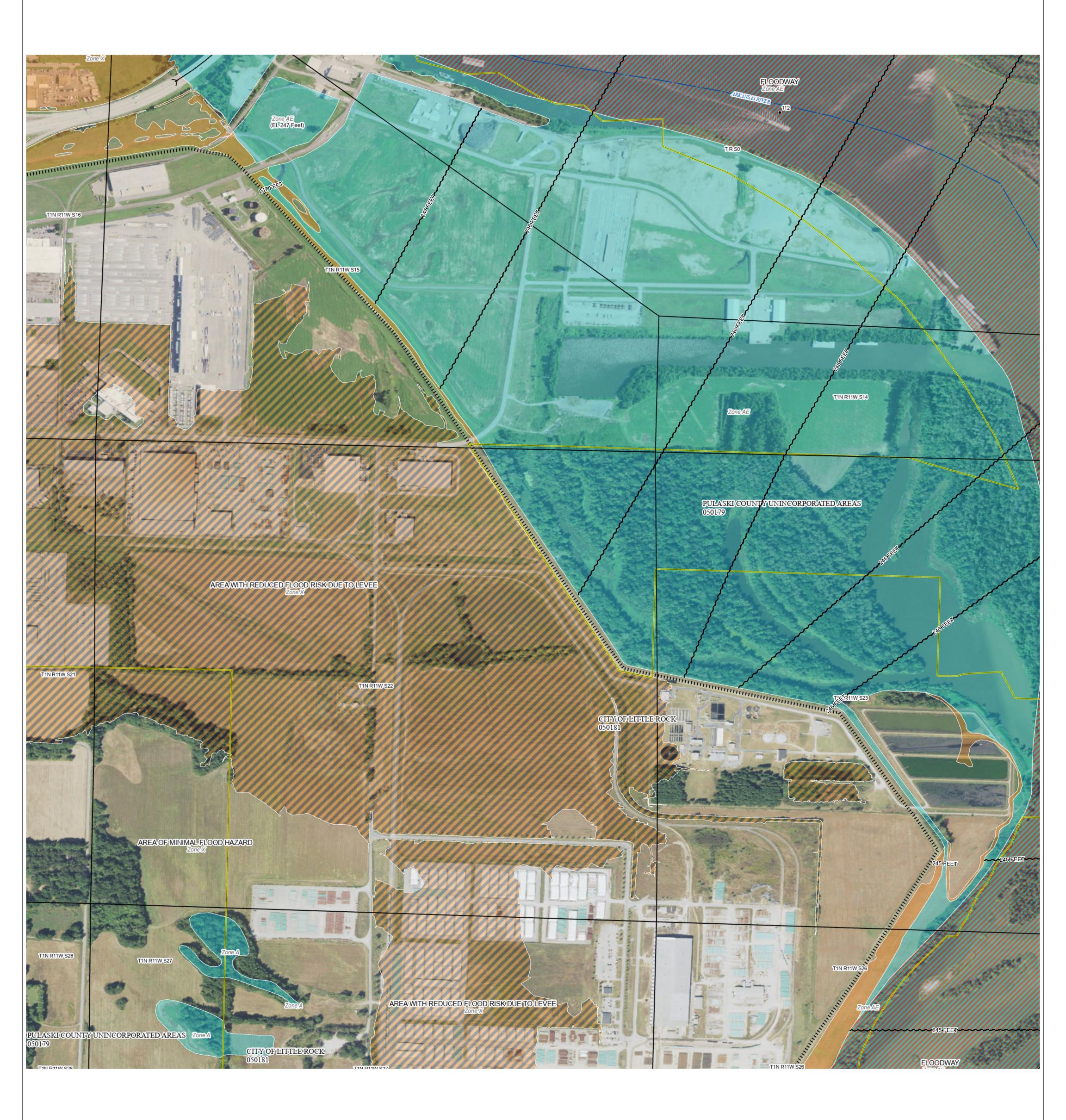




Photo 13 – Representative photo of potential wetland centrally located within the Port of Little Rock. No impacts are anticipated to occur at this inland location since mooring dolphins will be installed from the water.

Orth West Elevation ● 117°SE (T) ● 34.713094°N, 92.165526°W ±13ft ▲ 253ft Photo 14 – Example of potential streams located along roadways and railroad track within the Port of Little Rock No impacts are anticipated to occur at this inland streams locations since mooring dolphins will be installed from the water.

15 Mar 2022, 14:03:17



92°9'22.1"W 34°41'8.43"N

NUMBER

050179

050181

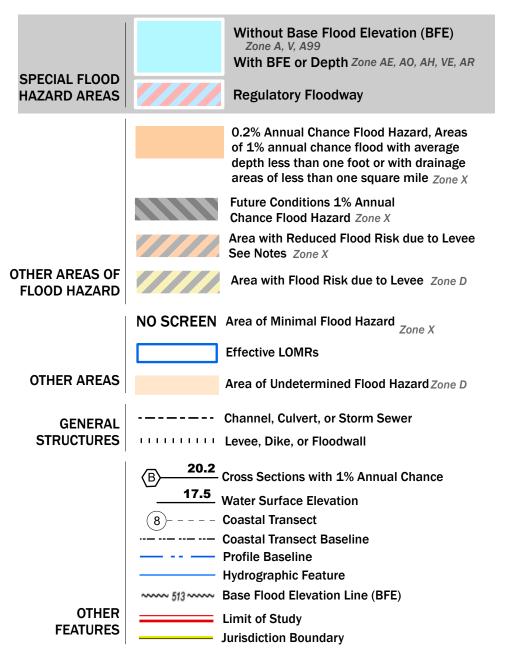
PANEL

0483

0483

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT



NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by the United States Geological Survey (USGS). The basemap shown is the USGS National Map: Orthoimagery. Last refreshed October, 2020.

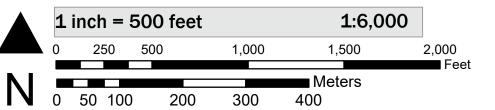
This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 3/4/2022 10:21 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at https://www.fema.gov/media-library/assets/documents/118418

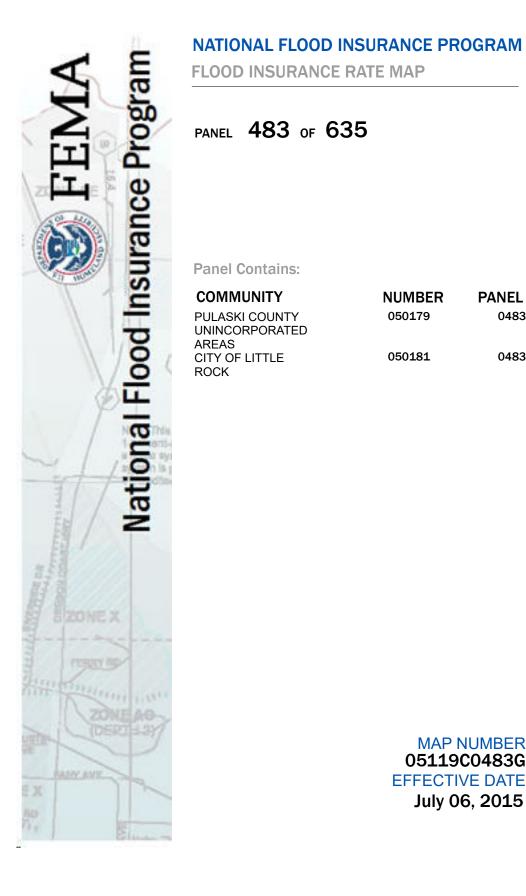
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

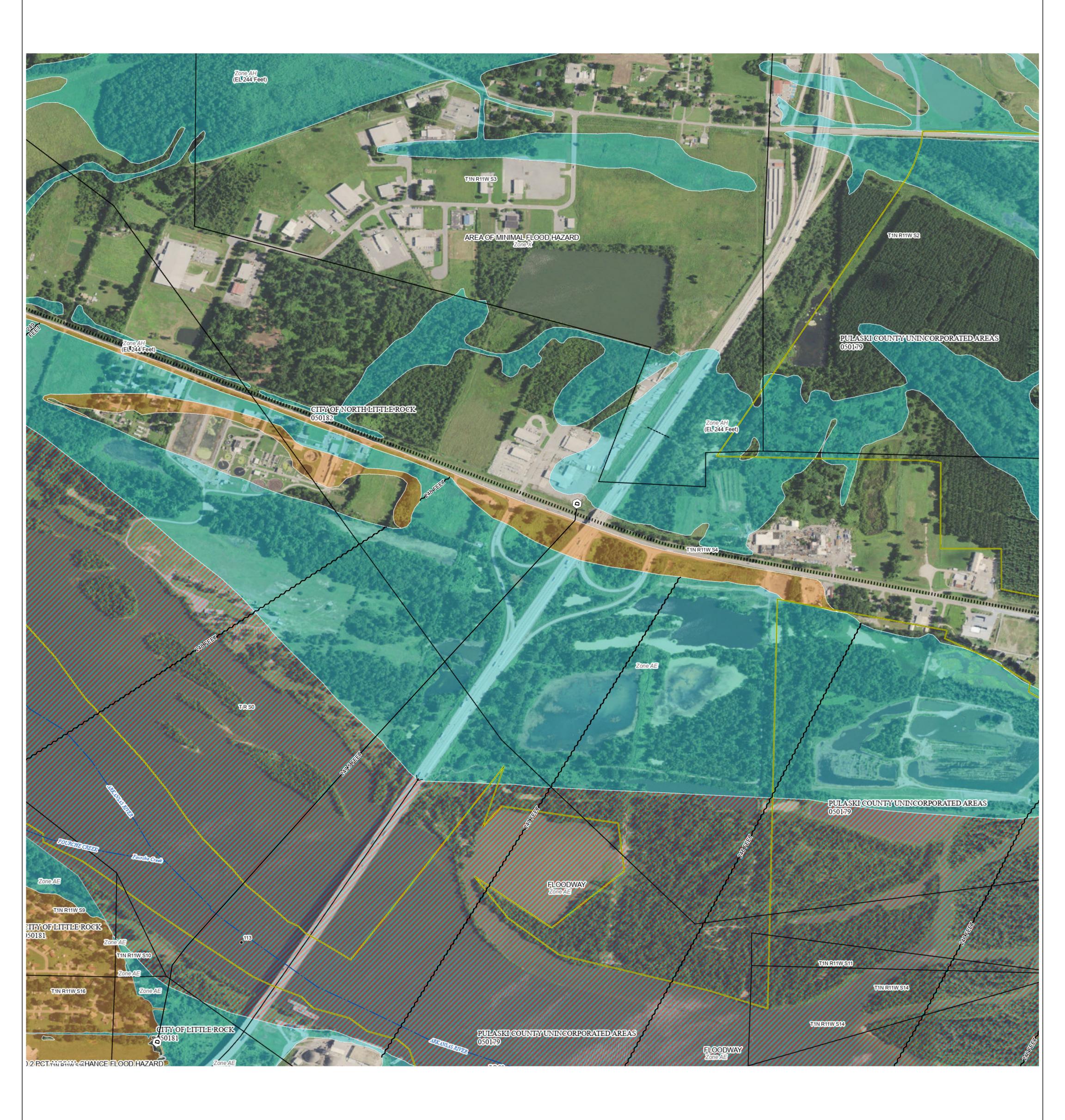
Map Projection: GCS, Geodetic Reference System 1980; Vertical Datum: NAVD88

For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at https://msc.fema.gov





MAP NUMBER 05119C0483G **EFFECTIVE DATE** July 06, 2015



92°9'22.1"W 34°43'N

NUMBER

050179

050182

050181

PANEL

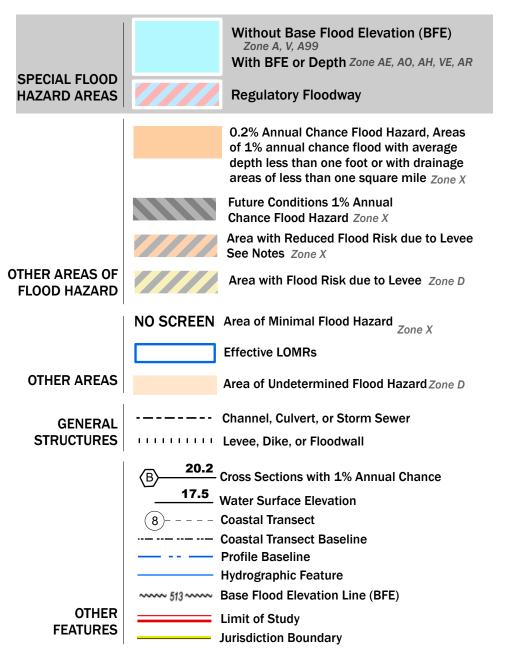
0481

0481

0481

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT



NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

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To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by the United States Geological Survey (USGS). The basemap shown is the USGS National Map: Orthoimagery. Last refreshed October, 2020.

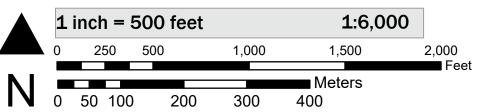
This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 3/4/2022 10:24 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at https://www.fema.gov/media-library/assets/documents/118418

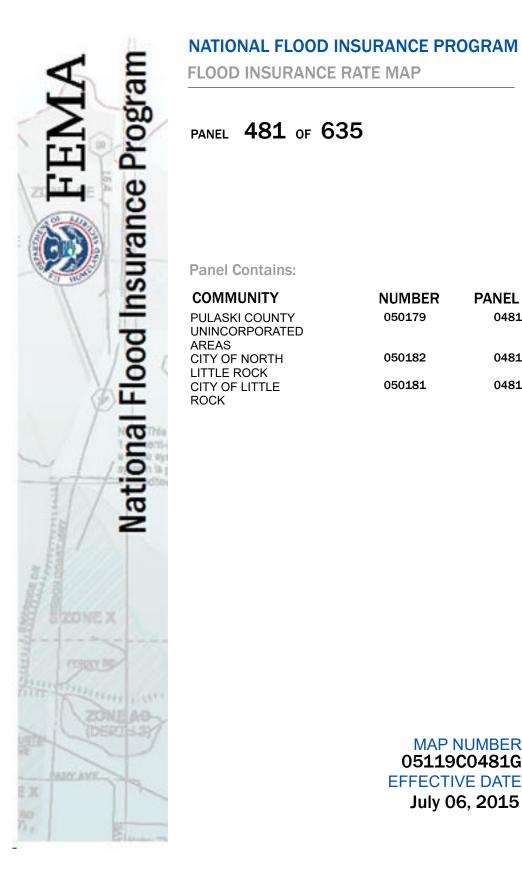
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

Map Projection: GCS, Geodetic Reference System 1980; Vertical Datum: NAVD88

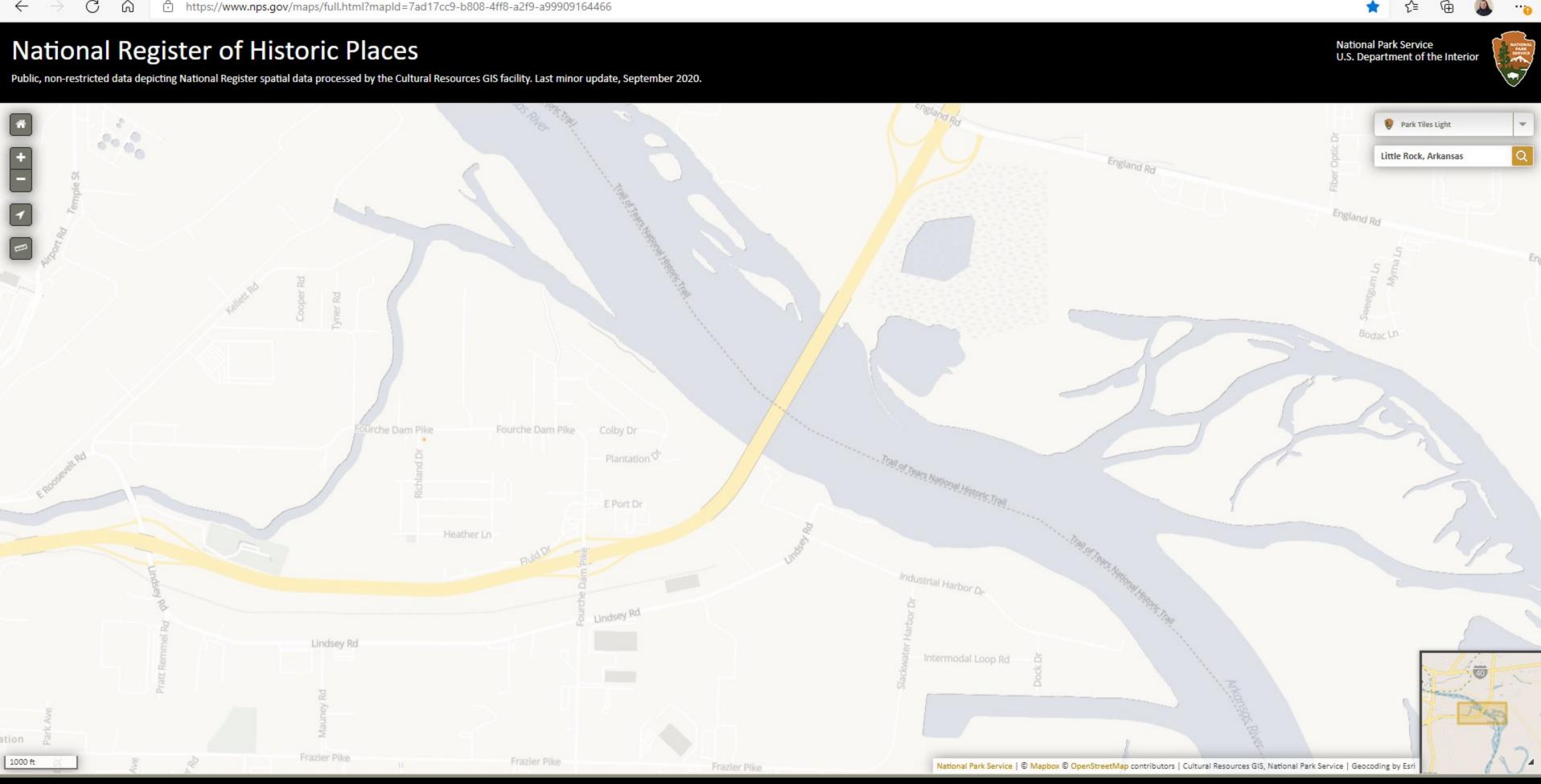
For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at https://msc.fema.gov





MAP NUMBER 05119C0481G **EFFECTIVE DATE** July 06, 2015

https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466 \leftarrow C ഹ \rightarrow





D

Appendix D – Noise Analysis

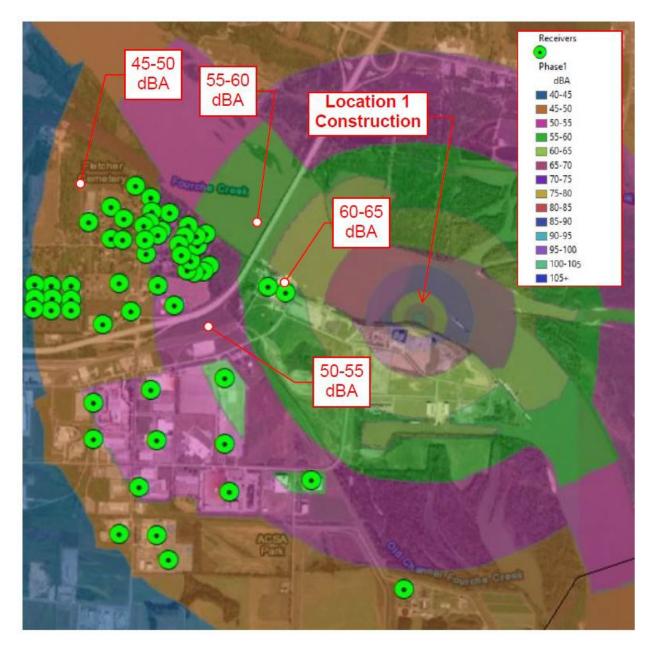


Figure 1. Calculated A-weighted noise contours during construction at Location 1.

FX

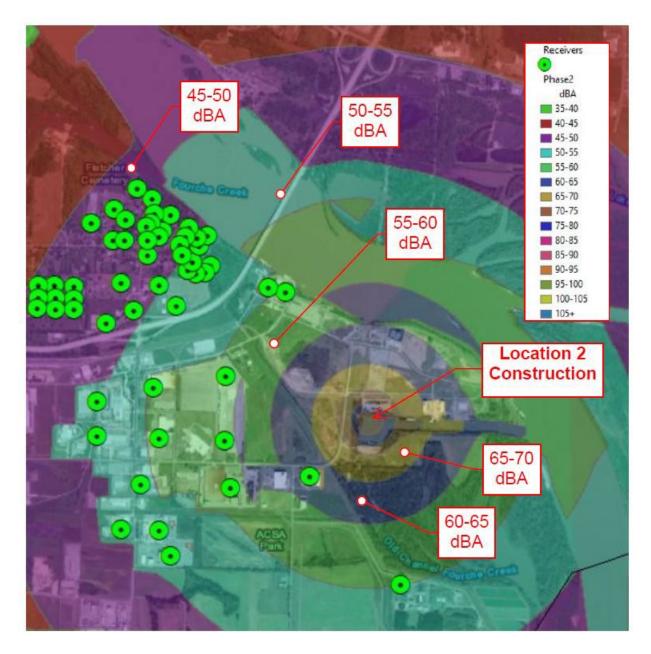


Figure 2. Calculated A-weighted noise contours during construction at Location 2.

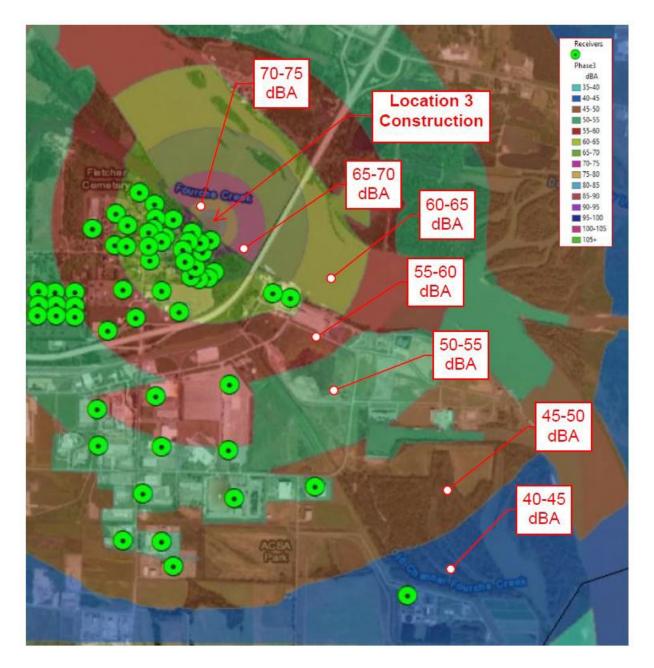


Figure 3. Calculated A-weighted noise contours during construction at Location 3.



Appendix E – CalEEMod Annual Summary Report: Construction Activity Emissions

FSS

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

POLR Mooring Upgrade Project

Statewide , Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	20,000.00	1000sqft	459.14	20,000,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.7	Precipitation Freq (Days)	103
Climate Zone	8			Operational Year	2024
Utility Company	User Defined				
CO2 Intensity (Ib/MWhr)	868	CH4 Intensity (Ib/MWhr)	3	N2O Intensity (Ib/MWhr)	5

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Used avg. wind speed and days of precip. in LR and climate zone 8. Estimated construction completion date is Sept 30 2024 and assuming 5 months of construction. Used same intensity factors as used in the CalEEMod for Brownsville, TX MARAD Upgrades in 2021 for consistency. Land Use -

Construction Phase - Assuming minimal demo and four months of construction

Off-road Equipment - As retired dolphins will be left in place, no major equipment is anticpipated for the demo phase. Additional construction trips for staff and waste removal are estimated under "Trips and VMT" section

Off-road Equipment - Crushing/Proc. Equipment = impact and vibratory hammers

Other Material Handling Equipment = tug boats (1 for install/crane for 4 months, 1 for material delivery 2 days a week for 3 months) and man lift (1 for 2 months) Grading - No earth work anticipated

Trips and VMT - Justin Carney email 03/15/22: "I would assume 10 staff members. For this project that may be slightly conservative depending on number of crews.

It should be safe to assume 5 trucks commuting for construction duration, 10 staff."

Architectural Coating - No Arch. Coating assumed for this project

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Area Coating - No Arch. Coating assumed for this project

Landscape Equipment - No landscaping assumed for this project

Water And Wastewater - No significant water use assumed for this project

Solid Waste - Assuming 40 tons of steel cables per deadman anchors and various debris

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000000	0
tblAreaCoating	Area_Nonresidential_Interior	3000000	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	550.00	0.00
tblConstructionPhase	NumDays	7,750.00	88.00
tblConstructionPhase	NumDays	500.00	23.00
tblConstructionPhase	NumDays	775.00	0.00
tblConstructionPhase	NumDays	550.00	0.00
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	PhaseEndDate	4/14/2064	3/6/2062
tblConstructionPhase	PhaseEndDate	1/26/2060	9/30/2024
tblConstructionPhase	PhaseEndDate	3/30/2026	5/30/2024
tblConstructionPhase	PhaseEndDate	5/13/2030	5/24/2027
tblConstructionPhase	PhaseEndDate	3/6/2062	1/26/2060
tblConstructionPhase	PhaseEndDate	5/24/2027	3/30/2026
tblConstructionPhase	PhaseStartDate	5/14/2030	5/30/2024
tblLandscapeEquipment	NumberSummerDays	180	0
tblOffRoadEquipment	HorsePower	85.00	231.00
tblOffRoadEquipment	HorsePower	231.00	89.00
tblOffRoadEquipment	HorsePower	168.00	84.00
tblOffRoadEquipment	HorsePower	46.00	97.00
tblOffRoadEquipment	HorsePower	84.00	46.00
tblOffRoadEquipment	LoadFactor	0.78	0.29

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment OffRoadEquipmentType Generator Sets Other Mat	0.20 0.74 0.37 0.45 0.38 ing/Proc. Equipment erial Handling Equipment f-Highway Trucks 0.00 0.00
tblOffRoadEquipmentLoadFactor0.45tblOffRoadEquipmentLoadFactor0.74tblOffRoadEquipmentLoadFactor0.38tblOffRoadEquipmentOffRoadEquipmentTypeCranestblOffRoadEquipmentOffRoadEquipmentTypeGenerator SetstblOffRoadEquipmentOffRoadEquipmentTypeOfftblOffRoadEquipmentOffRoadEquipmentTypeOfftblOffRoadEquipmentOffRoadEquipmentTypeOfftblOffRoadEquipmentOffRoadEquipmentTypeOfftblOffRoadEquipmentOffRoadEquipmentUnitAmount1.00tblOffRoadEquipmentOffRoadEquipmentUnitAmount3.00tblOffRoadEquipmentOffRoadEquipmentUnitAmount1.00tblOffRoadEquipmentOffRoadEquipmentUnitAmount2.00	0.37 0.45 0.38 ing/Proc. Equipment erial Handling Equipment f-Highway Trucks 0.00
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tblOffRoadEquipmentLoadFactor0.38tblOffRoadEquipmentOffRoadEquipmentTypeCranesCrushtblOffRoadEquipmentOffRoadEquipmentTypeGenerator SetsOther MattblOffRoadEquipmentOffRoadEquipmentTypeOfOftblOffRoadEquipmentOffRoadEquipmentTypeOftblOffRoadEquipmentOffRoadEquipmentUnitAmount1.00tblOffRoadEquipmentOffRoadEquipmentUnitAmount3.00tblOffRoadEquipmentOffRoadEquipmentUnitAmount1.00tblOffRoadEquipmentOffRoadEquipmentUnitAmount2.00	0.38 ing/Proc. Equipment erial Handling Equipment f-Highway Trucks 0.00
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tblOffRoadEquipment OffRoadEquipmentUnitAmount 2.00	
· · · · · · · · · · · · · · · · · · ·	2.00
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	2.00
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tblProjectCharacteristics CH4IntensityFactor 0	3
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tblProjectCharacteristics N2OIntensityFactor 0	5
tblProjectCharacteristics PrecipitationFrequency 54	103
tblProjectCharacteristics WindSpeed 2.2	6.7
tblSolidWaste SolidWasteGenerationRate 24,800.00	600.00
tblTripsAndVMT HaulingTripNumber 0.00	1.00
tblTripsAndVMT HaulingTripNumber 0.00	1.00
tblTripsAndVMT VendorTripNumber 3,278.00	0.00
tblTripsAndVMT WorkerTripNumber 0.00	10.00
tblTripsAndVMT WorkerTripNumber 18.00	0.00
tblTripsAndVMT WorkerTripNumber 20.00	0.00
tblTripsAndVMT WorkerTripNumber 8,400.00	10.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,680.00	0.00
tblWater	IndoorWaterUseRate	4,625,000,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Year		tons/yr											MT/yr						
2024	0.1724	1.1764	1.3029	3.8900e- 003	4.3000e- 003	0.0471	0.0514	1.1500e- 003	0.0446	0.0457	0.0000	335.9021	335.9021	0.0698	1.0000e- 004	337.6781			
2026	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2027	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2062	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
Maximum	0.1724	1.1764	1.3029	3.8900e- 003	4.3000e- 003	0.0471	0.0514	1.1500e- 003	0.0446	0.0457	0.0000	335.9021	335.9021	0.0698	1.0000e- 004	337.6781			

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Year		tons/yr											MT/yr						
2024	0.1724	1.1764	1.3029	3.8900e- 003	4.3000e- 003	0.0471	0.0514	1.1500e- 003	0.0446	0.0457	0.0000	335.9017	335.9017	0.0698	1.0000e- 004	337.6777			
2026	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2027	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
2062	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
Maximum	0.1724	1.1764	1.3029	3.8900e- 003	4.3000e- 003	0.0471	0.0514	1.1500e- 003	0.0446	0.0457	0.0000	335.9017	335.9017	0.0698	1.0000e- 004	337.6777			

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quarter	Sta	art Date	End	Date	Maximu	m Unmitiga	ted ROG + I	NOX (tons/q	uarter)	Maxin	um Mitigate	ed ROG + N	OX (tons/qua	arter)		
1	4-3	80-2024	7-29	-2024			0.6681					0.6681				

1	4-30-2024	7-29-2024	0.6681	0.6681
2	7-30-2024	10-29-2024	0.6894	0.6894
		Highest	0.6894	0.6894

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	78.1100	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Energy	2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	87,277.63 97	87,277.63 97	225.4972	375.5271	204,822.1 442	
Mobile	44.8568	59.2964	434.0337	0.9343	93.6992	0.7479	94.4471	25.1071	0.6985	25.8056	0.0000	86,366.65 38	86,366.65 38	5.5863	4.2184	87,763.39 44	
Waste						0.0000	0.0000		0.0000	0.0000	121.7946	0.0000	121.7946	7.1979	0.0000	301.7409	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	125.2056	79.6494	451.1302	1.0564	93.6992	2.2947	95.9939	25.1071	2.2453	27.3524	121.7946	173,644.2 935	173,766.0 880	238.2814	379.7455	292,887.2 795	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr											MT/yr						
Area	78.1100	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Energy	2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	87,277.63 97	87,277.63 97	225.4972	375.5271	204,822.1 442		
Mobile	44.8568	59.2964	434.0337	0.9343	93.6992	0.7479	94.4471	25.1071	0.6985	25.8056	0.0000	86,366.65 38	86,366.65 38	5.5863	4.2184	87,763.39 44		
Waste						0.0000	0.0000		0.0000	0.0000	121.7946	0.0000	121.7946	7.1979	0.0000	301.7409		
Water	n					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Total	125.2056	79.6494	451.1302	1.0564	93.6992	2.2947	95.9939	25.1071	2.2453	27.3524	121.7946	173,644.2 935	173,766.0 880	238.2814	379.7455	292,887.2 795		

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/30/2024	5/30/2024	5	23	
2	Site Preparation	Site Preparation	3/31/2026	3/30/2026	5	0	
3	Grading	Grading	5/25/2027	5/24/2027	5	0	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Building Construction	Building Construction	5/30/2024	9/30/2024	5	88	
ſ		Paving	Paving	1/27/2060	1/26/2060	5	0	
	6	Architectural Coating	Architectural Coating	3/7/2062	3/6/2062	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,000,000; Non-Residential Outdoor: 10,000,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Crushing/Proc. Equipment	4	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	2	8.00	89	0.20
Building Construction	Other Material Handling Equipment	3	4.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	2	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Generator Sets	2	8.00	46	0.45
Building Construction	Off-Highway Trucks	4	6.00	402	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr				MT	∵/yr					
Hauling	0.0000	6.0000e- 005	2.0000e- 005	0.0000	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0281	0.0281	0.0000	0.0000	0.0294
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e- 004	2.0000e- 004	2.6500e- 003	1.0000e- 005	8.9000e- 004	0.0000	8.9000e- 004	2.4000e- 004	0.0000	2.4000e- 004	0.0000	0.7043	0.7043	2.0000e- 005	2.0000e- 005	0.7106
Total	3.0000e- 004	2.6000e- 004	2.6700e- 003	1.0000e- 005	9.0000e- 004	0.0000	9.0000e- 004	2.4000e- 004	0.0000	2.4000e- 004	0.0000	0.7323	0.7323	2.0000e- 005	2.0000e- 005	0.7400

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr				МТ	/yr					
Hauling	0.0000	6.0000e- 005	2.0000e- 005	0.0000	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0281	0.0281	0.0000	0.0000	0.0294
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e- 004	2.0000e- 004	2.6500e- 003	1.0000e- 005	8.9000e- 004	0.0000	8.9000e- 004	2.4000e- 004	0.0000	2.4000e- 004	0.0000	0.7043	0.7043	2.0000e- 005	2.0000e- 005	0.7106
Total	3.0000e- 004	2.6000e- 004	2.6700e- 003	1.0000e- 005	9.0000e- 004	0.0000	9.0000e- 004	2.4000e- 004	0.0000	2.4000e- 004	0.0000	0.7323	0.7323	2.0000e- 005	2.0000e- 005	0.7400

3.3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	'/yr		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.1709	1.1753	1.2901	3.8500e- 003		0.0470	0.0470	- 	0.0445	0.0445	0.0000	332.4471	332.4471	0.0697	0.0000	334.1900
Total	0.1709	1.1753	1.2901	3.8500e- 003		0.0470	0.0470		0.0445	0.0445	0.0000	332.4471	332.4471	0.0697	0.0000	334.1900

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	6.0000e- 005	2.0000e- 005	0.0000	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0281	0.0281	0.0000	0.0000	0.0294
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e- 003	7.8000e- 004	0.0102	3.0000e- 005	3.3900e- 003	2.0000e- 005	3.4100e- 003	9.0000e- 004	2.0000e- 005	9.2000e- 004	0.0000	2.6946	2.6946	8.0000e- 005	7.0000e- 005	2.7187
Total	1.1600e- 003	8.4000e- 004	0.0102	3.0000e- 005	3.4000e- 003	2.0000e- 005	3.4200e- 003	9.0000e- 004	2.0000e- 005	9.2000e- 004	0.0000	2.7226	2.7226	8.0000e- 005	7.0000e- 005	2.7481

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.1709	1.1753	1.2901	3.8500e- 003		0.0470	0.0470		0.0445	0.0445	0.0000	332.4467	332.4467	0.0697	0.0000	334.1896
Total	0.1709	1.1753	1.2901	3.8500e- 003		0.0470	0.0470		0.0445	0.0445	0.0000	332.4467	332.4467	0.0697	0.0000	334.1896

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	6.0000e- 005	2.0000e- 005	0.0000	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0281	0.0281	0.0000	0.0000	0.0294
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e- 003	7.8000e- 004	0.0102	3.0000e- 005	3.3900e- 003	2.0000e- 005	3.4100e- 003	9.0000e- 004	2.0000e- 005	9.2000e- 004	0.0000	2.6946	2.6946	8.0000e- 005	7.0000e- 005	2.7187
Total	1.1600e- 003	8.4000e- 004	0.0102	3.0000e- 005	3.4000e- 003	2.0000e- 005	3.4200e- 003	9.0000e- 004	2.0000e- 005	9.2000e- 004	0.0000	2.7226	2.7226	8.0000e- 005	7.0000e- 005	2.7481

3.6 Paving - 2060

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2060

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	∵/yr		
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2060

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Architectural Coating - 2062

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2062

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	44.8568	59.2964	434.0337	0.9343	93.6992	0.7479	94.4471	25.1071	0.6985	25.8056	0.0000	86,366.65 38	86,366.65 38	5.5863	4.2184	87,763.39 44
Unmitigated	44.8568	59.2964	434.0337	0.9343	93.6992	0.7479	94.4471	25.1071	0.6985	25.8056	0.0000	86,366.65 38	86,366.65 38	5.5863	4.2184	87,763.39 44

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	78,600.00	128,400.00	101800.00	259,919,906	259,919,906
Total	78,600.00	128,400.00	101,800.00	259,919,906	259,919,906

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65,120.98 65	65,120.98 65	225.0725	375.1209	182,533.8 251
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65,120.98 65	65,120.98 65	225.0725	375.1209	182,533.8 251
NaturalGas Mitigated	2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	22,156.65 32	22,156.65 32	0.4247	0.4062	22,288.31 91
NaturalGas Unmitigated	2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	22,156.65 32	22,156.65 32	0.4247	0.4062	22,288.31 91

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							МТ	/yr		
General Heavy Industry	4.152e +008	2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	22,156.65 32	22,156.65 32	0.4247	0.4062	22,288.31 91
Total		2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	22,156.65 32	22,156.65 32	0.4247	0.4062	22,288.31 91

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Heavy Industry	4.152e +008	2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	22,156.65 32	22,156.65 32	0.4247	0.4062	22,288.31 91
Total		2.2388	20.3529	17.0965	0.1221		1.5468	1.5468		1.5468	1.5468	0.0000	22,156.65 32	22,156.65 32	0.4247	0.4062	22,288.31 91

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

<u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	/yr	
General Heavy Industry	1.654e +008	65,120.98 65	225.0725	375.1209	182,533.8 251
Total		65,120.98 65	225.0725	375.1209	182,533.8 251

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
General Heavy Industry	1.654e +008	65,120.98 65	225.0725	375.1209	182,533.8 251
Total		65,120.98 65	225.0725	375.1209	182,533.8 251

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr		-					MT	/yr		
Mitigated	78.1100	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	78.1100	0.0000	0.0000	0.0000		0.0000	0.0000	 - - - -	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	78.1100					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	78.1100	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	'/yr		
Architectural Coating						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	78.1100					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	78.1100	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category		МТ	/yr	
Intigatou	0.0000	0.0000	0.0000	0.0000
Grinnigatou	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	/yr	
General Heavy Industry	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	/yr	
General Heavy Industry	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
		МТ	/yr	
, i i i i i i i i i i i i i i i i i i i	121.7946	7.1979	0.0000	301.7409
	121.7946	7.1979	0.0000	301.7409

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	/yr	
General Heavy Industry	600	121.7946	7.1979	0.0000	301.7409
Total		121.7946	7.1979	0.0000	301.7409

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	/yr	
General Heavy Industry	600	121.7946	7.1979	0.0000	301.7409
Total		121.7946	7.1979	0.0000	301.7409

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

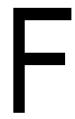
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type	
<u>Boilers</u>							
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type		
User Defined Equipment							
Equipment Type	Number						
11.0 Vegetation							

FX



Appendix F – Cultural Resources Technical Memorandum

Memo

Date:	Wednesday, February 23, 2022
Project:	Port of Little Rock Mooring Upgrade Project
To:	Nicole Morgan, HDR Environmental Project Manager
From:	Benjamin M Lipke, HDR Senior Archaeologist Zachery Overfield, MA, RPA, HDR Cultural Resources Practice Leader
Subject:	Cultural Resources Database Search

Project Details

The Port of Little Rock contracted HDR Engineering, Inc. (HDR) to conduct a cultural resources background study in advance of the proposed Mooring Upgrade Project. The proposed project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres (Area of Potential Effect [APE]). Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge. The APE is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Geological Background

The entirety of the APE is submerged underwater within the Arkansas River and Slackwater Harbor of the Little Rock Port Authority (USDA-NRCS 2022).

Database Results

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded

cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the APE. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the APE (**Figure 2**).

Two of the six previous cultural resource surveys overlap the APE. Previous survey AMASDA Number 1313 consisted of an integrated program of geomorphological and archaeological investigations conducted within portions of the McClellan-Kerr Arkansas River Navigation System between Dardanelle, Arkansas, and the Mississippi River. This survey encompassed the proposed Phase 1 and Phase 3 locations of the remaining 36 mooring dolphins. Previous survey AMASDA Number 142 was conducted during the construction of Slackwater Harbor where the Phase 2 portion of the proposed project recommends construction of 11 additional dolphins (see **Figure 2**). Details for the previous cultural resource surveys conducted within 1 mi (1.6 km) of the APE are listed in **Table 1**.

AMASDA Number	Agency	Report Title	Contractor	Year	Details
142	City of Little Rock, AR	Little Rock Port Authority Survey	Arkansas Archeological Survey	1975	Encompasses Phase 2 APE
1168	COE, Little Rock	Fourche Creek Flood Control	Archaeological Assessment, Inc.	1986	Outside APE
1313	COE, Little Rock	Arkansas River Navigation Survey, Pools 1 through 9	Archeological Assessments, Inc.	1987	Encompasses Phase 1 and Phase 3 APE
2802	COE, Little Rock	Fourche Creek Flood Control Project, Pulaski County	Archeological Assessments, Inc.	1985	Outside APE
6750	Pollution Management, Inc.	Plantation Drive Sediment Removal	Panamerican Consultants, Inc.	2015	Outside APE
7532	Crafton Tull	Fourche Dam Pike Widening Project	Flat Earth Archeology, LLC	2020	Outside APE

Table 1. Previous Cultural Resources Surveys Conducted within 1 Mile of the APE.

None of the four cultural resource sites identified within the 1 mi (1.6 km) search radius are located within the APE (see **Figure 2**). None of the sites have been evaluated for inclusion in the National Register of Historic Places (NRHP) and are considered to have unknown NRHP status. Details on all the sites are listed in **Table 2**.

Identifier	Affiliation	Features/Function	NRHP Eligibility	Distance from APE
3PU241	Prehistoric	Single Flake	Unknown	0.7 mi south of Phase 2 APE
3PU314	Historic	Barge Wreck	Unknown	0.1 mi southwest of Phase 2 APE
3PU800	Historic	Fletcher – Baldwin Cemetery, Fletcher – Terry Cemetery	Unknown	0.1 mi west southwest of Phase 3 APE

Identifier	Affiliation	Features/Function	NRHP Eligibility	Distance from APE
3PU801	Historic	Fletcher Plantation Slave Cemetery	Unknown	0.2 mi west southwest of Phase 3 APE

Summary and Recommendations

The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1 mi (1.6 km) search radius of the APE. None of the four cultural resource sites overlap the proposed mooring dolphin APE. The entirety of the APE is submerged underwater within the Arkansas River and Slackwater Harbor of the Little Rock Port Authority; therefore, the proposed project is not anticipated to introduce any impacts to recorded cultural resources. In addition, previous surveys encompassing the proposed mooring dolphin locations did not identify any cultural resource sites overlapping their APE.

References

Automated Management of Archaeological Site Data in Arkansas (AMASDA)

- 2022 Automated Management of Archaeological Site Data in Arkansas. Available online at <u>https://archeology.uark.edu/amasdaonline/geo4/map</u>, accessed February 2022.
- University of California and USDA-NRCS (University of California, Davis, California Soil Resource Lab; University of California, Division of Agriculture and Natural Resources; Natural Resources Conservation Service)
- 2022 Soils Web. University of California. USDA-NRCS. Available online at <u>https://data.nal.usda.gov/dataset/soilweb</u>, accessed February 2022.

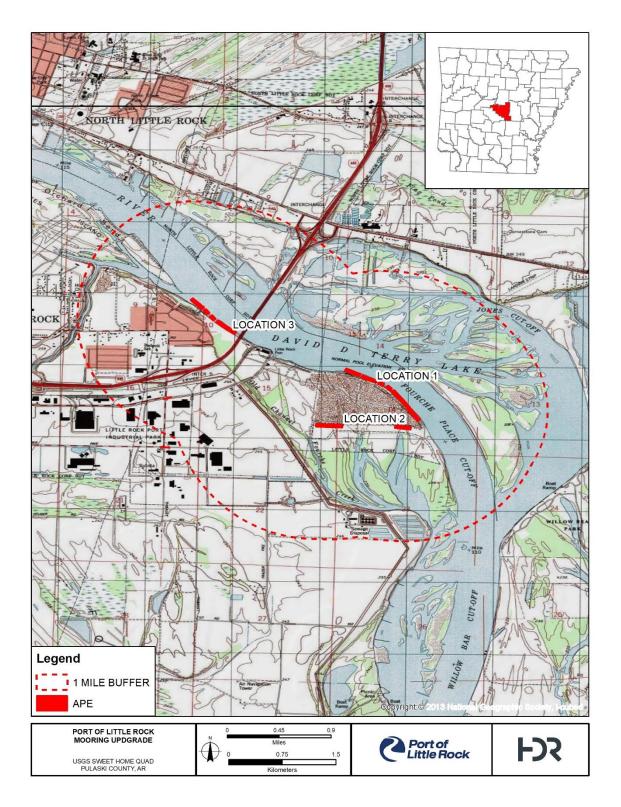


Figure 1. General Location of the Project.

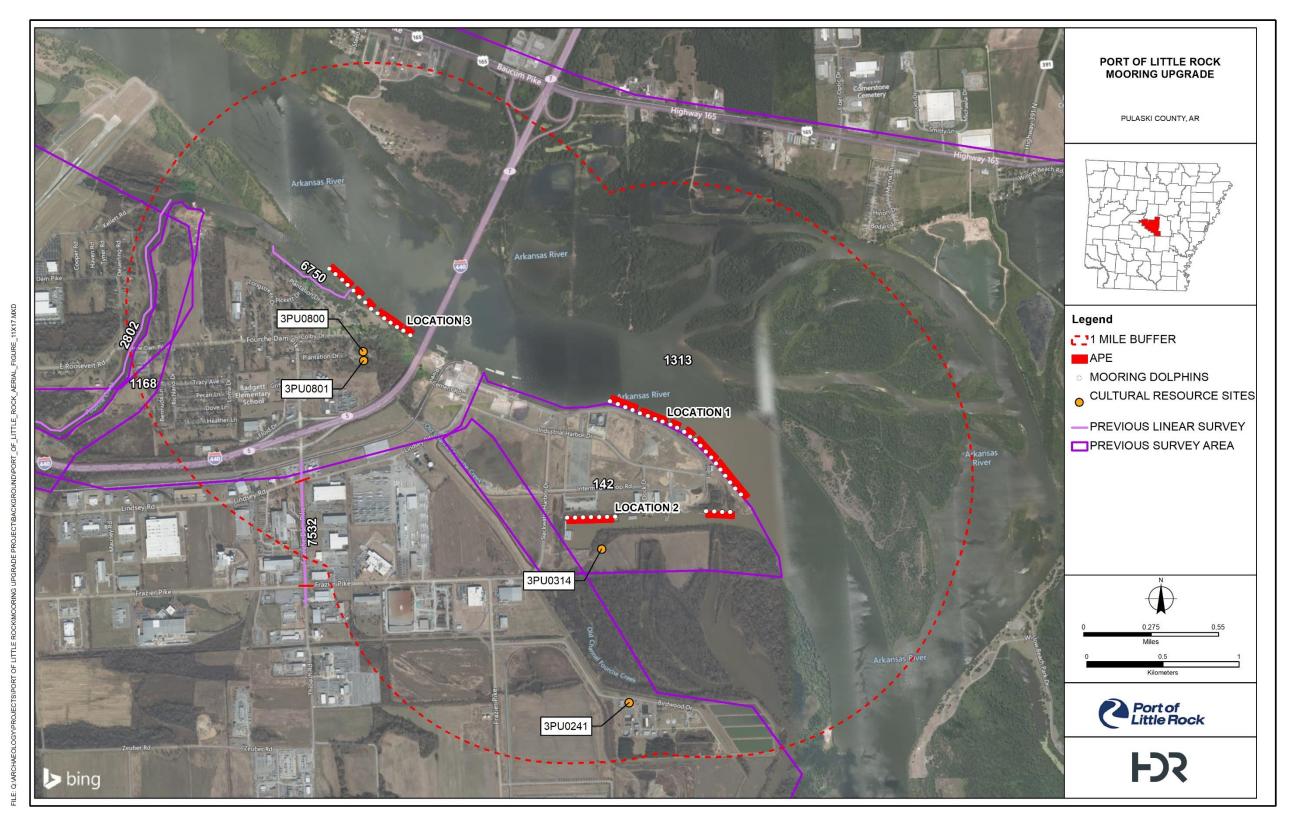


Figure 2. Cultural Resources and Previous Surveys within 1 Mile of the APE.



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Appendix G – Response to Public Comments and Questions



September 13, 2022

Dear Port-Area Property Owners and Residents:

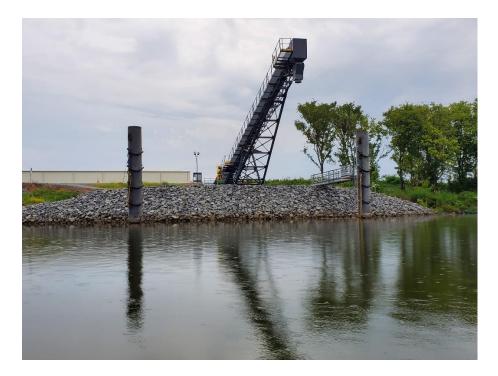
The Little Rock Port Authority proposes to restore and expand current barge fleeting operations at the Port of Little Rock located on the Arkansas River in Little Rock, Pulaski County, Arkansas. The purpose of this project is to improve the safety, efficiency, and capacity of the Port, a primary port on the McClellan-Kerr Aransas River Navigation System. The Port has been awarded a Port Infrastructure Development grant from the U.S. Department of Transportation Maritime Administration (MARAD) to implement the Proposed Action which includes the replacement of 15 deteriorated deadman anchors in 2 locations on the Arkansas River shoreline within the Port of Little Rock with 36 steel monopile mooring dolphins (dolphins) and installation of 11 monopile mooring dolphins in the Slackwater Harbor.

Property you either own or reside in is located near the project, in the area shown below.



PUBLIC ANNOUNCEMENT

At each location, the 48 inch-diameter steel monopile mooring dolphins (similar to those shown below) will be placed on 170-foot centers to allow barges with tows up to 5 barges long to be moored along each set of dolphins.



The dolphins will be installed using impact hammering and/or vibratory hammering from a barge (on the water). Dolphins will be pile-driven up to approximately 100 ft below the ground surface with the top of the pile at approximately 265 ft (NAVD88). Construction is expected to take five months. The project will not create excessive noise between the hours of 10 p.m. and 6 a.m.

We want you to be aware of the expected primary impacts of the project (noise and vibration) that will occur during construction, but we invite you to read the draft full environmental assessment report or to call us with any questions or concerns. Copies of the report will be available at the Little Rock Port Authority offices at 10600 Industrial Harbor Drive, or you can reach us at the contact information below. Also, if transportation is an issue, we can bring a copy of the report to you. So that we can hopefully move forward with the project, please contact us by October 15, 2022.

As always, we want to be good neighbors to homes and businesses near the Port.

Sincerely,

Bryan Day, Executive Director <u>Bryan.day@portoflittlerock.com</u> 501 490-1468 Marsha Guffey, Grants and Special Projects mguffey@portoflittlerock.com 501 490-1468

Comment No.	Primary Topic	Secondary Topic	Comments or Questions	POLR Response	Name	Comment ID ¹
1	Comments - General	Pile Driving	nearby buildings and structures. A 1,500-pound drop hammer driving piles will send shivers down a neighbor's back and the potential for damaging adjacent structures run high. Before any work begins, a careful analysis and structural inspection /evaluation of each property must be performed before the pile driver ever arrives. This work presents an encomous liability risk, largely because of the type of soli in this area. What is a real to the type of the type of the pile driver ever arrives. The source presents an encomous liability risk largely because of the type of soli in this area. What area to the type of the type of the pile driver ever arrives.	Section 3.4 of the Environmental Assessment indicates that vibration from pile installation is not expected to cause damage to nearby structures or homes given the closest structure is supproximately 400 feet from the project. The report recommends vibratory pile driving where sufficient rather than impact driving techniques to reduce vibration levels. One or more of the noise control approaches listed in Section 3.4 of the EA would be implemented during construction of the Project if impact driving is required. This requirement will be included in construction contract documents. The Draft EA has been updated to reflect Environmental Committements .	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
2				The proposed project is for the replacement of deteriorating deadman ground anchors and the installation of additional dolphins which would be used for mooring barges along the riverbank and are located within Port-owned property. The resulting changes in port operations are described in Section 3.1 or the Environmental Assessment. Other than the replacement of the deteriorating deadman ground anchors and the installation of additional dolphins, the proposed project does not include new infrastructure and operating systems associated with future plans for the Port of Little Rock, and the proposed project does not expand the current footprint or boundary of the Port of Little Rock.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
3	Comments - General	Noise Pollution Health Risks	What will be changes in Noise pollution, risk for exposure to poisonous/ lethal gases due to this Expansion? Staging, Spotting, Storing and Parking additional barges?	Potential noise and vibration impacts from the proposed project were evaluated and the information incorporated in the EA (Section 3.4). Based on the analysis, temporary noise impacts from construction of the proposed project would occur at Location 3. As stated in the EA, these temporary noise impacts are anticipated to occur over a period of approximately one month between 8.00 am and 5.00 pm during weekdays. The EA includes recommendations for noise mitigation which will be included in the construction contract documents as appropriate. The Draft EA has been updated to reflect Environmental Commitments.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
4				Measurable changes in noise pollution are not anticipated for barge staging, spotting, storing, and parking additional barges.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
5				The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases. The proposed project is designed to more safely and efficiently transport these products and would on increase the port's current capacity. Any other future changes to port operations, including, for example, the construction of infrastructure necessary to ship liquid and gaseous products, would comply with applicable environmental review and permitting requirements.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
6	Comments - General	Property Value	What will be the Impact on our property values from this Port Expansion?	No impacts to property values are anticipated. The replacement of the seven deteriorated deadman anchors and installation of 14 dolphins in Location 3 would not change the existing land use. It would, however, increase the length of shoreline along which barges would le more safely moced. Most of this fereting area is not visible from the nearly residential areas due to trees near and along the shoreline. The Draft EA has been updated to clarify only mooring of barges cocurs in Location 3 and unloading/loading activities occur at an existing dock located within the POLR.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
7	Comments - General	Water Quality	Port operations can have a significant impact on water quality and the health of marine life. Waste from shipping vessels and other port activities can result in loss or degradation of habitat areas and can also harm marine life due to Leaks and Spills. What will be the Impact on River Water Quality?	MARAD acknowledges that port and related barge operations have the potential to adversely affect water quality and aquatic life. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of the sources of negative imparts listed in these comments. Some of these regulations are discussed in the Environmental Assessment. Fertilizer, a source of nitrogen (nitrate) pollution, is one of the major bulk products handled by the Port. Barges carrying fertilizer are double hull construction; i.e., double bottom and double shell plating with a hatch cover system. The Port does not handle other hazardous cargo and flagged barges are not accepted in the fleet. The purpose of the project is to improve the safety associated with storing vessels while waiting at the port.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
8	Comments - General	Water Quality		MARAD acknowledges that port and related barge operations have the potential to adversely affect water quality and aquatic life. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of the sources of negative impacts listed in these comments. Some of these regulations are discussed in the Environmental Assessment. The purpose of the project is to improve the safety associated with storing vessels while waiting at the port.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
9	Comments - General	Health Risks	Some Known Negative Impacts of port operations include - Paint: Leaching of toxic paint additives, meant to prevent barnades from clinging to Vessels, can result in health impacts on marine I/Fe.	MARAD acknowledges that port and related barge operations have the potential to adversely affect water quality and aquatic life. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of the sources of negative impacts listed in these comments. Some of these regulations are discussed in the Environmental Assessment. The purpose of the project is to improve the safety associated with storing vessels while waiting at the port.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
10	Comments - General	Water Quality	Some Known Negative Impacts of port operations include - Stormwater runoff: Stormwater runoff gathers pollutants from paved surfaces at the port and deposits them in the water, often bypassing wastewater treatment plants.	MARAD acknowledges this comment. The project does not include changes that would affect stormwater runoff.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)

11	Comments - General	Water Quality		MARAD acknowledges that port and related barge operations have the potential to adversely on affect water quality and aquatic life. Federal, state, and local regulations, with which both the of Port and shipping companies must comply, minimize the effects of the sources of negative s. impacts listed in these comments. Some of these regulations are discussed in the Environmental Assessment. The purpose of the project is to improve the safety associated with storing vessels while waiting at the port.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
12	Comments - General	Ecosystem	Some Known Negative Impacts of port operations include - Invasive species: Marine animals can be taken onto vessels and then transported to new habitats where they may become invasive species that threaten the balance of natural ecosystems.	The project is not expected to have an increase in invasive species exposure.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
13	Comments - General	Water Quality	Some Known Negative Impacts of port operations include - Nitrogen: Nitrogen is the leading cause of eutrophication in marine systems, where algae blooms use up oxyge in the water and cause fish and shellfish to die.	MARAD acknowledges that port and related barge operations have the potential to adversely affect water quality and aquatic life. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of the sources of negative impacts listed in these comments. Some of these regulations are discussed in the Environmental Assessment. Fertilizer, a source of nitrogen (intratt) pollution, is one of the major bulk products handled by the Port. Barges carrying fertilizer are double hull construction, i.e., double bottom and double shell plating with a hatch cover system. The Port does not handle other haradrous cargo and flagged barges are not accepted in the fleet. The propose of the project is to improve the safety associated with storing vessels while waiting at the port.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
14	Comments - General	Water Quality	Some Known Negative Impacts of port operations include - Dredge/dredging: Remov sediment to deepen ship channels can increase the cloudiness of water and disturb contaminated bottom sediment, harm or permanently destroy critical wildlife habita and disturb or kill threatened and endangered species.	affect water quality and aquatic life. Federal, state, and local regulations, with which both the Bort and chimning companies must comply minimize the effects of the sources of possible.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
15	Comments - General	Water Quality Ecosystem	What measures will be implemented to mitigate negative environmental impacts of expanded port activities?	The POLR is replacing deteriorated deadman anchors and installing additional dolphins to improve safety and more efficiently store barges, and reduce wait times for barge loading and unloading. The POLR is not proposing other construction activities or changes in Port operation het hat would increase barget artific beyond the projected growth in shipping that would otherwise occur. POLR is not adding additional infrastructure or new operational systems to expand Port operations and has led a USACE fleeting permit since 1987 which covers the upstreem fleeting area at Arkansa River Navigation mile 113 to 1133. The additional dolphins would provide mooring for an additional 70 barges between 2024 and 2031.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
16	Comments - General	Health Risks	What Health Risk Assessment /Health Impact Assessment for exposure to individual pollutants has been performed?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or usualized elsevated noise levels that would be great enough to threaten human health. Therefore, MARAD has not performed a health risk assessment or health impact assessment of the proposed action. As described in Section 3.8, no 330(d) isted impaired Waters by the Arkansas Department of Environmental Quality (ABCQ) are within the project area. Therefore, there are no concerns of contamination that would require sediment ranalysis for constituents of concerns (COC). Future Port operations associated with the transportation of new materials that would require additional infrastructure and operating systems at the Port are not part of this project and would most likely undergo separate NEPA analysis.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
17	Comments - General	Health Risks	What risks from Single chemical stressors has been performed?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health. Therefore, MARAD has not performed a health risk assessment or health impact assessment of the proposed action. As described in Section 3.8, no 303(d) listed impaired Waters by the Arkansas Department of Environmental Quality (ABEQ) are within the project area. Therefore, there are no concerns of contamination that would require sediment ransiys for constituents of concerns (COG). Future Port operations associated with the transportation of new materials that would require additional infrastructure and operating systems at the Port are not part of this project and would most likely undergo separate NEPA analysis.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
18	Comments - General	Health Risks	What risks from Multiple chemical stressors has been performed?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health. Therefore, MARAD has not performed a health risk assessment or health impact assessment of the proposed action. As described in Section 3.8, no 333(d) listed impaired Waters by the Arkansas Department of Environmental Quality (ADEQ) are within the project area. Therefore, there are no concerns of contamination that would require sediment rankyis for constituents of concerns (CQC). Future Port operations associated with the transportation of new materials that would require additional infrastructure and operating systems at the Port are not part of this project and would most likely undergo separate NEPA analysis.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
19	Comments - General	Health Risks	What are the risks from exposures in children, and impacts of early life exposures?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated mole levels that would be great enough to threaten human health. Therefore, MARAD has not performed a health risk assessment or health impact assessment of the proposed action. A described in section 3, no 303(0) listed impact and Waters by the Arkansas Department of Environmental Quality (ADEQ) are within the project area. Therefore, there are no concerns of contamination that would require sediment analysis for constituents of concerns (COC). Future Port operations associated with the transportation of new materials that would require additional infrastructure and operating systems at the Port are not part of this project and would most likely undergo separate NEPA analysis.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)

20	Comments - General	Health Risks	What are the cancer and non-cancer risks.	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise level as that would be great enough to threaten human health. Therefore, MARAD has not performed a health first assessment or health impact assessment of the proposed action. As described in Section 3.8, no 303(d) listed impared Waters by the Arkansa Department of Environmental Quality (ADEQ) are within the project area. Therefore, there are no concerns of contamination that would require sediment analysis for constituents of concerns (COC). Future Port porearison associated with the transportation of new materials that would require additional infrastructure and operating systems at the Port are not part of this project and would most likely undergo separate NEPA analysis.		
21	Comments - General	Health Risks	What will be the changes plus or minus in the cancer and non-cancer risks.	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or suration elevented not be levels that would be great enough to threaten human health. Therefore, MARAD has not performed a health risk assessment or health impact assessment of the proposed action. As described in Section 3.8, on 303(d) listed impared Waters by the Arkansa Department of Environmental Quality (ADEQ) are within the project area. Therefore, there are no concerns of contamination that would require sediment analysis for constituents of conterns (COC). Future Derotoperations associated with the transportation of new materials that would require additional infrastructure and operating systems at the Port are not part of this project and would most likely undergo separate NEPA analysis.	Joshua Swift and Richard McCauley	Submitted to the Port 10-12-2022 (Rmccaul072209@yahoo.com; jasmes2002@gmail.com)
22	Comments - General	Health Risks	Why we as residents were not notified before the port was awarded the grant from the U.S. Department of Transportation. Because of dangerous and hazardous materials the barges will transport, and in the event of a spill or explosion, and the many health events of the second all the second second and the second all the second all the second all the second all the second second all the second second all the second sec	The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases or other hazardous materials. The proposed project is designed to more safely and efficiently transport these products. The port typically stores empty vessels north of the 1-440 Bridge (Location 3) using existing deadman anchors or other infrastructure in the area as needed. As part of this project, the Port will issue and advisory to the harbor service to eliminate fleeting potentially hazardous cargo barges near the residential area. The Draft EA has been updated to reflect Environmental Committenents .	Marra Robinson	Written comments after Public Meeting
23	Opposition	Property Value	authority going to financially compensate for decreased values? There are plenty of areas to put these barges without using residential area. Park them in front of your		Terry Kersey	Written comments after Public Meeting
24	Comments - General	Safety	What about safety? What do these barges carry? If anything happens to one how can you access them. Again residential area, fenced yard, no river access from land for emergency personnel. Is our fire station equiped to handle all emergencies? There is a lot of senior citizens in this area on the river. What evacuation plans are in place in case of an emergency?	The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cennent products) that does not include poisonous or lethal gases. The Little Rock Fire Department Hazardons Material learn and Bessue Unit will respond to hazardons material spills as needed. The Little Rock Fire Department Har/Mat team is housed at Station 11 and Station 11 and Station 11 and Station 12; they also pull in the North Little Rock Fire Department as needed. The Citty of Little Rock Emergency Management Department The ability to though emergency sitems equipped with an announcement system, and also door-to-door notifications. Most likely, residents would be aaked to shetter in place, although executions could the place.	Terry Kersey	Written comments after Public Meeting
25	Comments - General	Health Risks	There is potential for increased health issues to the residents if these barges carry dangers and hazardous materials.	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Terry Kersey	Written comments after Public Meeting
26	Comments - General	Ecosystem Property Value		Currently, there are no pest-attracting materials stored at the Nort of I-440 area as the barges stored there are empty. The proposed project is not expected to cause an increase in pests exposure.	Terry Kersey	Written comments after Public Meeting
27	Comments - General	Noise Pollution Health Risks	Noise pollution/diesel fumes F/ mooring and unmooring barges.	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of varer pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Kathellen Nelson/ Ken Keller	Written comments after Public Meeting
28	Comments - General	Funding Source	where is the money coming from rederal funds reart of American Resuer Act ris	The project was awareded federal funds from the U.S. Department of Transportation Maritime Administration's PT 2021 Port Infrastructure Development Grant. There is no statutory fund obligation deadline, although it is preferred that funds be expended by September 30, 2024.		Written comments after Public Meeting
29	Comments - General	Community Involvement	Why was residents not told of this before Sept. 15. other people was told of this operations in April yet is _lilegible text]Sept. before we were told. Was the Port trying to get this done before the residents could <i>lilegible</i>].	MARAD acknowledges your comment. Per NEPA guidance (CEQ 1501.5(e)), the community was made aware of the project from the Port of Little Rock via a mailed announcement as part of development of the Environmental Assessment. The Drutt EA was also made available upon request. A public meeting was held at the public's request. POLR has held a USACE fleeting permit since 1987 which covers the upstream fleeting area upriver from 1440. Because the port was simply carrying out a previously permitted activity, broad public outreach was not considered.	Jesse Parker	Written comments after Public Meeting
30	Opposition	Property Value	subdivision. I am in total agreement with the concerns noted in this document. There needs to be a meeting with all concerned parties and the powers that be, to garner a better understanding of the project and to discuss whether or not it will be in the best	No impacts to property values are anticipated. The replacement of the seven deteriorated deadman anchors and installation of 14 dolphins in Location 3 would not change the existing land use. It would, however, increase the length of shoreline along which barges wouldbe more safely mored. Most of this fletting areas is not visible from the nearby residential areas due to trees near and along the shoreline.	Robert Tilman	Written comments after Public Meeting

31	Comments - General	Pile Driving	What plans are in place to ensure our homes are not damaged from pile driving?	Section 3.4 of the Environmental Assessment indicates that vibration from pile installation is not expected to cause damage to nearby structures or homes given the closest structure is approximately 400 feet from the project. The report recommends vibratory pile driving where sufficient rather than impact driving techniques to relace vibration levels. One or more of the noise control approaches listed in Section 3.4 of the EA would be implemented during construction of the Project if impact driving is required. This requirement will be included in construction contract documents. The Draft EA has been updated to reflect Environmental Commitments.	Richard McCauley	Written comments after Public Meeting
32	Comments - General	Noise Pollution Health Risks	What will the danger in noise pollution, risk for exposure to poisonous lethal gases due to this port expansion - mooring upgrade project	The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases. The proposed project is designed to more safely and efficiently transport these products and would not increase the port's current capacity. Any other future changes to port operations, including, for example, the construction of infrastructure necessary to ship liquid and gaseous products, would comply with applicable environmental review and permitting requirements.	Richard McCauley	Written comments after Public Meeting
33	Comments - General	Property Value	What will be the impact on our property values from this project (additional noise pollution and hazard risk)	No impacts to property values are anticipated. The replacement of the seven deteriorated deadman anchors and installation of 14 dolphins in Location 3 would not change the existing land use. It would, however, increase the length of shoreline along which barges would be more safely moored. Most of this fleeting area is not visible from the nearby residential areas due to trees near and along the shoreline. Noise impacts are addressed in the EA in Section 3.4 and the Environmental Commitments.	Richard McCauley	Written comments after Public Meeting
34	Comments - General	Unclear (assumed Ecosystem)	What will be done to mitigate negative impact on [illegible] system	MARAD acknowledges that port and related barge operations have the potential to adversely affect water quality and aquatic life. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of the sources of negative impacts listed in these comments. Some of these regulations are discussed in the Environmental Assessment. Negative impacts that would require mitigation are not anticipated.	Richard McCauley	Written comments after Public Meeting
35	Comments - General	Health Risks	What health and risk assessment for expsoure to pollutants has been performed?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of varter pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Richard McCauley	Written comments after Public Meeting
36	Comments - General	Health Risks	What are risk from single chemical stressor?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Richard McCauley	Written comments after Public Meeting
37	Comments - General	Health Risks	What are the risks from multiple chemical stressor?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Richard McCauley	Written comments after Public Meeting
38	Comments - General	Health Risks	What are the risks from exposure in children, and impacts of early life exposure?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Richard McCauley	Written comments after Public Meeting
39	Comments - General	Health Risks	What will be the changes in cancer risks?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Richard McCauley	Written comments after Public Meeting
40	Comments - General	Safety	Is the local fire station equipped to handle any emergencies associated with this project or has a separate haz-mat and/or abatement team been formed? How will the LRFD access the river area?	The Little Rock Fire Department Hazardous Material team and Rescue Unit will respond to hazardous material spils as needed. The Little Rock Fire Department Haz/Mat team is housed at Station 11 and Station Little Will staffed with L2 people between Station 11 and Station 2; they also pull ir the North Little Rock Fire Department as needed. The City of Little Rock Emergency Management Department is able to send notifications of Stations little this through the National Weather Service alert system, through emergency sitens equipped with an announcement system, and latd door-door notifications. Most likely, residents would be asked to abetter in place, although execuations could take place. Both the City of Little Rock and Pulasic County have boats that could be used in case emergency evacuation by water is needed.	Richard McCauley	Written comments after Public Meeting
41	Opposition	Relocation	Could this project be relocated close to the airport, further away from residential area?	No, the mooring could not be added closer to the Little Rock National Airport; the Little Rock Port Authority does not have a fleeting permit in this area; additionally, it would increase transport time, which is what we intend to reduce as a result of the project.	Richard McCauley	Written comments after Public Meeting
42	Comments - General	Project Description	Were any logisticians and/or industrial engineers involved in the planning of this project?	An engineering team led by HDR and Capt. Jeff Monroe conducted a full fleeting study for the Little Rock Port Authority in 2021. The results of that study were used to prepare the Port Infrastructure Development Program grant applications. The HDR Ream of engineers and environmental consultants is providing further development of the project now.	Joshua and Mary Swift	Written comments after Public Meeting
43	Comments - General	Project Description		The project does not include residential property. All project activities will occur on Port-owned property (land and water).	Joshua and Mary Swift	Written comments after Public Meeting
44	Comments - General	Safety Health Risks	What safe guards will be utilized to monitor such dangerous and hazardous materials?	The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases or other hazardous materials. The proposed project is designed to more safely and efficiently transport these products. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of potential sources of negative impacts. Some of these regulations are discussed in the Environmental Assessment.	Joshua and Mary Swift	Written comments after Public Meeting

45	Comments - General	Safety	Has an evacuation plan, including exit routes, been designed for residents in the event of a split, explosion, etc.?	The Little Rock Fire Department Hazardous Material team and Rescue Unit will respond to hazardous material spills as needed. The Little Rock Fire Department Haz/Mat team is housed at Station 11 and fully staffed with 12 people between Station 11 and Station 2; they also pull in the North Little Rock Fire Department as needed. The City of Little Rock Emergency Management Department is able to send notifications of situations like this through the National Weather Service alert system, through emergency sitems equipped with an announcement system, and also door-to-door notifications. Most likely, residents would be asked to shelter in place, although evacuations could take place. Both the City of Little Rock and Pulaski County have boats that could be used in case emergency evacuation by water is needed.	Joshua and Mary Swift	Written comments after Public Meeting
46	Comments - General	Health Risks	The potential exists for an increase in the diagnoses of cancer. Will residents' health care costs be covered by the [illegible]?	As described in Sections 3.2, 3.3, 3.7, and elsewhere in the Environmental Assessment, MARAD has not identified any environmental impacts from sources such as emissions of air pollutants, discharges of water pollutants, or sustained elevated noise levels that would be great enough to threaten human health.	Joshua and Mary Swift	Written comments after Public Meeting
47	Comments - General	Noise Pollution Property Value Ecosystem	, We are not concerned about the negative impact on the environment (including noise pollution) and decreased property values	MARAD acknowledges comment.	Terry Allmon Conner and Nick Conner	Written comments after Public Meeting
48	Comments - General	Project Description Property Value		The Little Rock Port Authonity currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases or other hazardous materials. The proposed project is designed to more safely and efficiently transport these products. Federal, state, and local regulations, with which both the Port and shipping companies must comply, minimize the effects of potential sources of negative impacts. Some of these regulations are discussed in the Environmental Assessment.	Terry Allmon Conner and Nick Conner	Written comments after Public Meeting
49	Opposition	Relocation	It seems that both the Port Authority and the Hermitage residents would be better served by this construction project occurring in close proximity to the existing slack water harbor or at the very least, in a non-residential area, perhaps closer to the airport.	The project includes additional mooring dolphins within the slack water harbor. To meet the purpose and need of the project, additional dolphins are needed outside the slack water harbor. The Little Rock Port Authority has docks on both the main body of the Arkansas River and in the Slackwater Harbor targes are loaded and unoladed in both areas. The Port of Little Rock own a riverfront area of approximately 2.3 miles along the west bank of the Arkansas River. This segment begins 0.3 miles anothwest of the Interstate-440 Arkansas River Bridge and extends southeast to a point approximately 0.3 miles downstream of the Port's Slackwater Harbor. The Little Rock Nort Authority does not have a permit for operations closer to the Little Rock National Airport.	Terry Allmon Conner and Nick Conner	Written comments after Public Meeting
50	Comments - General	Water Quality	Along with the obvious dangers poised by the contents of the barges. It would be increased with large floods, which we have had in the past. Large storms could cause damage to the barges and contaminate the down stream river system.	The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases or other hazardous materials. As stated in Section 3.10 of the Environmental Assessment, the project will be designed to accommodate the flows and velocities associated with the expected 100-year/floading event. This project is expected to benefit floading conditions, as the dolphins will allow barges to be more securely moored.	Carl Lewis	Written comments after Public Meeting
51	Comments - General	Health Risks	Storing such contaminants next to any community could be delayed disaster. Barges have sunk in the river.	The Little Rock Port Authority currently only handles bulk products and general cargo (grain, clay, rock, fertilizer, and cement products) that does not include poisonous or lethal gases or other hazardous materials. The port typically stores empty vessels morth of the 1-440 Bridge (Location 3) using existing deadman anchors or other infrastructure in the area as needed. As part of this project, the Port will issue an advisory to the harbor service to eliminate fleeting potentially hazardous cargo barges end the more the provident area. The Draft EA has been updated to reflect Environmental Commitments.	Carl Lewis	Written comments after Public Meeting
52	Comments - General	Project Description	Is this a temporary or long term project? Will these materials be waiting for use, or disposal?	Installation of the mooring dolphins is for long term.	Carl Lewis	Written comments after Public Meeting
53	Comments - General	Miscellaneous	There are clean burning solutions that generate energy.	MARAD acknowledges comment.	Carl Lewis	Written comments after Public Meeting
54	Comments - General	Project Description	Need more river rock to keep the dirt from washing away.	MARAD acknowledges comment.	Joseph Campbell	Written comments after Public Meeting
55	Opposition	Safety	Community of Hermitage needs to come together and protect our neighborhood family and health. Exercise all rights to keep Plantation and community safe	^y MARAD acknowledges comment.	Sylvester Applewhite	Written comments after Public Meeting
56	Comments - General		I'm with you hundred persent 100%	MARAD acknowledges comment.	Frederick Jones	Written comments after Public Meeting
57	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.		Thomas Ceurton	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood
58	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.		John McClellan	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood
59	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.		Shaun Nichols	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood
60	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	s MARAD acknowledges comment.	Ana Lovelace	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood
61	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	s MARAD acknowledges comment.	Charles Walton	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood
62	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	5 MARAD acknowledges comment.	Hazel Greenwood	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood
63	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.		Carolyn Ceurton	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood

64	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	MARAD acknowledges comment.	John Fletcher	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
65	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	MARAD acknowledges comment.	Michael Lewis	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
66	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	MARAD acknowledges comment.	Michael Greenwood	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
67	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, their response were ok, no questions, they were satisfied, all questions were answered, no additional concern.	-	Brenda Walton	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
68	Comments - General	N/A	Happy with the response in the meeting but still had concern about the drilling damaging their foundation.	Section 3.4 of the Environmental Assessment indicates that vibration from pile installation is not expected to cause damage to nearby structures or homes given the doess structure is approximately 400 feet from the project. The report recommends vibratory pile driving where sufficient rather than inspat driving techniques to reduce vibration levels. One or more of the noise control approaches listed in Section 3.4 of the EA would be implemented during construction of the Project if impact driving is required. This requirement will be included in construction contract documents. The Draft EA has been updated to reflect Environmental Commitments.	Theonita Nichols	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
69	Comments - General	N/A	Happy with the response in the meeting but still had concern about the drilling damaging their foundation.	Section 3.4 of the Environmental Assessment indicates that vibration from pile installation is not expected to cause damage to nearby structures or homes given the dosest structure is approximately 400 feet from the project. The report recommends vibratory pile driving where sufficient rather than impact driving techniques to reduce vibration levels. One or more of the noise control approaches listed in Section 3.4 of the EA would be implemented during construction of the Project if impact driving is required. This requirement will be included in construction contract documents. The Draft EA has been updated to reflect Environmental Committment.	Garren McKinney	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
70	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, she requested another meeting a month or two before construction start. She feels she is not receiving all the information, some distrust.	The Final EA will be made publicly available on the Port website prior to construction.	Elizabeth Marsenburg	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
71	Comments - General	N/A	When asked if they had any additional questions or concerns that didn't get addressed at the meeting, she requested another meeting and has some distrust.	The Final EA will be made publicly available on the Port website prior to construction.	Erma Carter	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
72	N/A	N/A	Attended meeting with a friend, not a resident.	MARAD acknowledges.	J.V. Turpin	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
73	N/A	N/A	No callback.	MARAD acknowledges.	Dwight Pridgeon	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
74	N/A	N/A	No answer.	MARAD acknowledges.	Kim Lovlace	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
75	N/A	N/A	No phone number.	MARAD acknowledges.	Eric and Rose Paxton	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
76	Comments - General	N/A	No concerns.	MARAD acknowledges comment.	Cynthia Jones	Notes from contacting residents of Hermitage Neighborhood after Public Meeting; led by Michael Greenwood	
¹ Public Meeting held	ablic Meeting held by the Port of Little Rock on September 30, 2022 at the Reprodo Memorial Baptist Church (7111 Fourthe Dam Pike, Little Rock, AR 72206)						

Bold Text: Identifies changes made in the Draft EA to address public comments





FJS

List of Coordination Documents

- Section 7 Consultation with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service
- U.S. Army Corps of Engineers Coordination on Section 10 Permit Application
- Representative Tribal Coordination Letter and Responses
- Section 106 Consultation with the State Historical Preservation Office
- List of Consulted Tribes

From:	Mary Wunderlich - NOAA Federal <mary.wunderlich@noaa.gov></mary.wunderlich@noaa.gov>
Sent:	Wednesday, February 23, 2022 10:10 AM
То:	Morgan, Nicole
Subject:	Re: Federal Grant and NMFS Section 7 Consultation - Port of Little Rock,
	Arkansas

CAUTION: [EXTERNAL] 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.

Hi Nikki,

The location described is beyond NMFS jurisdiction in that area. Thanks for checking.

Thanks, Mary

On Wed, Feb 23, 2022 at 9:21 AM Morgan, Nicole <<u>Nicole.Morgan@hdrinc.com</u>> wrote:

Good morning Mary,

I am assisting with Section 7 coordination for a project located within the Arkansas River near the Port of Little Rock, in Little Rock, Pulaski County, Arkansas. The project includes funding from a federal grant and, therefore, I am assisting our client with early coordination with the USFWS and possibly NMFS. However, I am uncertain if NMFS has jurisdictional this far up river. Can you confirm if NMFS should be coordinated with under Section 7 of the ESA for a project within the Arkansas River located approximately 350 miles (as the crow flies) north of the Gulf of Mexico?

Thank you for your attention to this important matter,

Nikki Morgan, PhD

Environmental Project Manager

HDR

1201 Market Street, Suite C Chattanooga, TN 37402 0 423-508-3176 C 361.429.9133 nicole.morgan@hdrinc.com

hdrinc.com/follow-us

Mary Wunderlich

Section 7 Coordinator, Southeast Regional Office NOAA Fisheries | U.S. Department of Commerce Office: (727) 209-5985 www.fisheries.noaa.gov



Phone:(501) 730-3266 Fax: (501) 513-4480 <u>Melvin Tobin@fws.gov</u>

OUR VISION: "Together, we will connect lands and waters to sustain fish, wildlife and plants by being visionary leaders, bold innovators and trusted partners, working with and for people."

From: Morgan, Nicole <Nicole.Morgan@hdrinc.com>
Sent: Monday, February 28, 2022 9:26 AM
To: Tobin, Melvin <melvin_tobin@fws.gov>
Cc: Carney, Justin <Justin.Carney@hdrinc.com>
Subject: [EXTERNAL] U.S. DOT MARAD Section 7 Consultation - Port of Little Rock Mooring Upgrade Project - Pulaski
County, AR

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Dear Field Supervisor Tobin,

On behalf of the U.S. Department of Transportation (DOT) Maritime Administration (MARAD) and the Little Rock Port Authority (Port), HDR Engineering, Inc. (HDR) is requesting to initiate Section 7 consultation for the proposed Port of Little Rock Mooring Upgrade Project located in Little Rock on the Arkansas River in Pulaski County, AR. Attached is a formal letter notifying you of this project and MARAD's authorization for HDR to consult with your agency on their behalf. Please let me know if there is anything else you require to initiate consultation on this important project!

Sincerely,

Nikki Morgan, PhD Environmental Project Manager

HDR

1201 Market Street, Suite C Chattanooga, TN 37402 0 423-508-3176 C 361.429.9133 nicole.morgan@hdrinc.com

hdrinc.com/follow-us



Maritime Administration

February 25, 2022

VIA ELECTRONIC MAIL

Melvin Tobin Field Supervisor U.S. Fish and Wildlife Service Arkansas Ecological Services Field Office 110 S. Amity Road — Suite 300 Conway, AR 42032

RE: Little Rock Port Authority, Port of Little Rock Mooring Upgrade Project Little Rock, Pulaski County, Arkansas U.S. Department of Transportation Maritime Administration Port Infrastructure Development Program Grant

Dear Field Supervisor Tobin:

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD) awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Program for improvements to the Port of Little Rock on the Arkansas River. This letter notifies you that for the purposes of this project, MARAD has authorized HDR Engineering, Inc to consult with your agency on our behalf.

Based on review of the U.S. Fish and Wildlife Service's Information for Planning and Consultation (IPaC) database, the proposed Port of Little Rock Mooring Upgrade Project in Little Rock, Pulaski County, Arkansas, is anticipated to have no effects on federally listed threatened or endangered species. These findings are presented as an evaluation of aquatic and terrestrial species listed under Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). The IPaC report is included as an attachment.

The Little Rock Port Authority is proposing to expand its barge fleeting capacity with construction to be completed at three locations. Location 1 involves the replacement of 8 existing deteriorated deadman mooring anchors with 22 steel monopile mooring dolphins along the southern shore of the Arkansas River near the Little Rock Port Authority. Location 2 includes the construction of 11 additional dolphins along the northern shore of the Slackwater Harbor. Location 3 includes the replacement of 7 deteriorated deadman anchors with the construction of 14 additional dolphin locations along the southern shore of the Arkansas River north of the 1-440 River Bridge near the community of Hermitage in Eastern Little Rock, Pulaski County, Arkansas. Overall, the project comprises 47 individual steel monopole dolphin locations spaced 170 feet (ft) apart that can accommodate 102 barges measuring 195 ft in length and 35 ft in width, totaling 15.4 acres. Proposed project exhibits are included as an attachment.

We value your assistance and look forward to consulting further if there are federally listed species and designated critical habitat that may be affected by this project.



Maritime Administration 1200 New Jersey Avenue, SE Washington, DC 20590

To meet project timeframes, MARAD respectfully requests that you notify us within 30 days. If you have additional questions or comments, please contact the consultant for the action proponent, Nicole Morgan, Environmental Project Manager (HDR) at 423-508-3176 or via email at Nicole.Morgan@hdrinc.com.

Sincerely,

Frin Kendle

Erin Kendle Office of Environmental Compliance MAR-410.1 MARAD 202-360-6427 Erin.Kendle@dot.gov



United States Department of the Interior

FISH AND WILDLIFE SERVICE Arkansas Ecological Services Field Office 110 South Amity Suite 300 Conway, AR 72032-8975 Phone: (501) 513-4470 Fax: (501) 513-4480 http://www.fws.gov/arkansas-es



In Reply Refer To: Project Code: 2022-0012363 Project Name: Port of Little Rock February 24, 2022

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 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.

Attachment(s):

Official Species List

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:

Arkansas Ecological Services Field Office

110 South Amity Suite 300 Conway, AR 72032-8975 (501) 513-4470

Project Summary

Project Code:2022-0012363Event Code:NoneProject Name:Port of Little RockProject Type:Boatlift/Boathouse/Dock/Pier/Piles - New ConstructionProject Description:New Mooring dolphinsProject Location:Fort of Little Rock

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@34.71877280550004,-92.17413590716245,14z</u>



Counties: Pulaski County, Arkansas

Endangered Species Act Species

There is a total of 4 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.

Birds

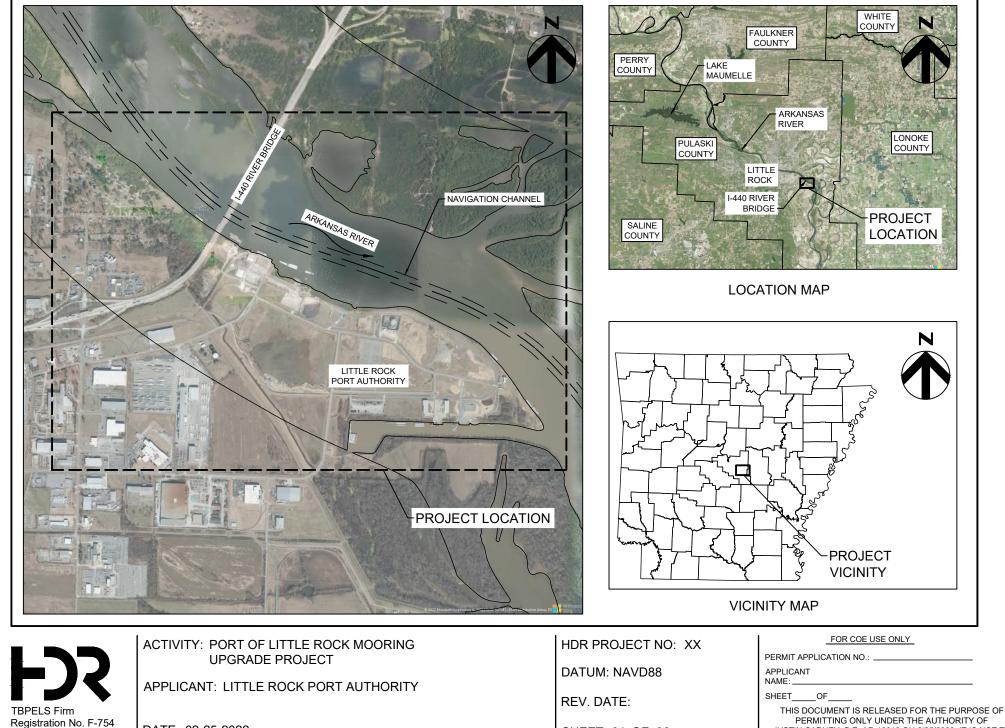
NAME	STATUS
Eastern Black Rail <i>Laterallus jamaicensis ssp. jamaicensis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10477</u>	Threatened
 Piping Plover Charadrius melodus Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u> 	Threatened
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	Threatened
Insects NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	Candidate

Critical habitats

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

IPaC User Contact Information

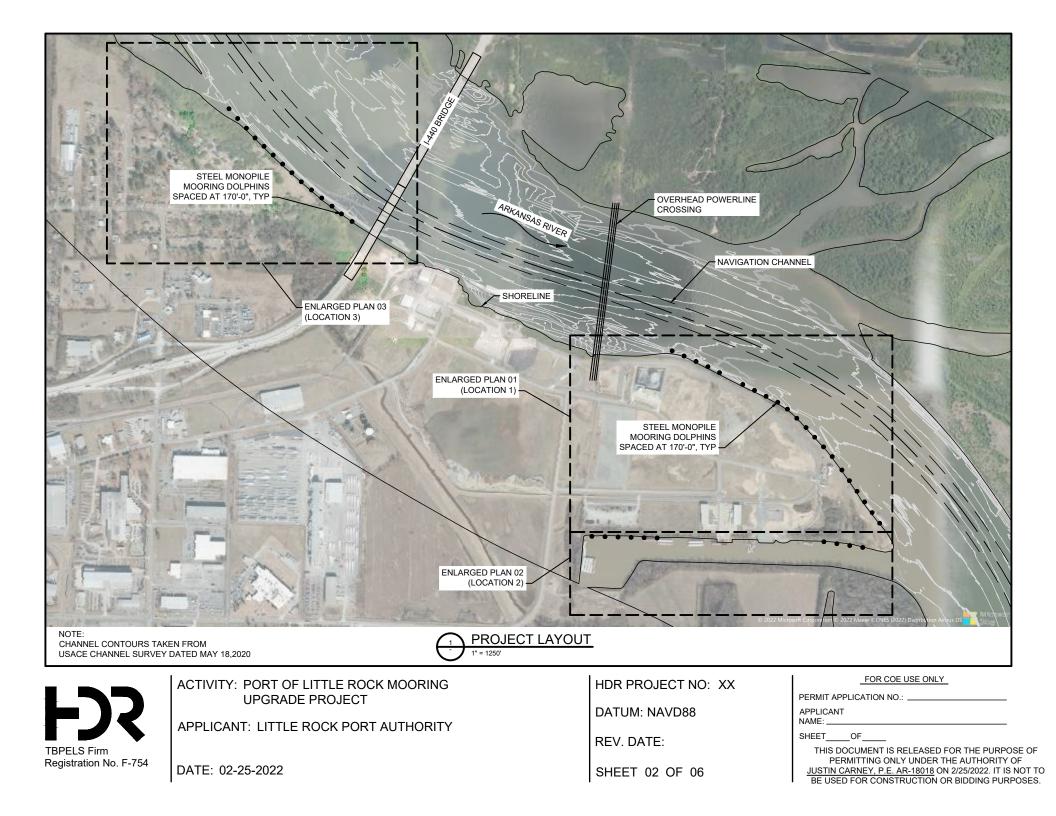
Name:Caroline RyciukAddress:1201 Market St.City:ChattanoogaState:TNZip:37402Emailcaroline.ryciuk@hdrinc.comPhone:2246599695

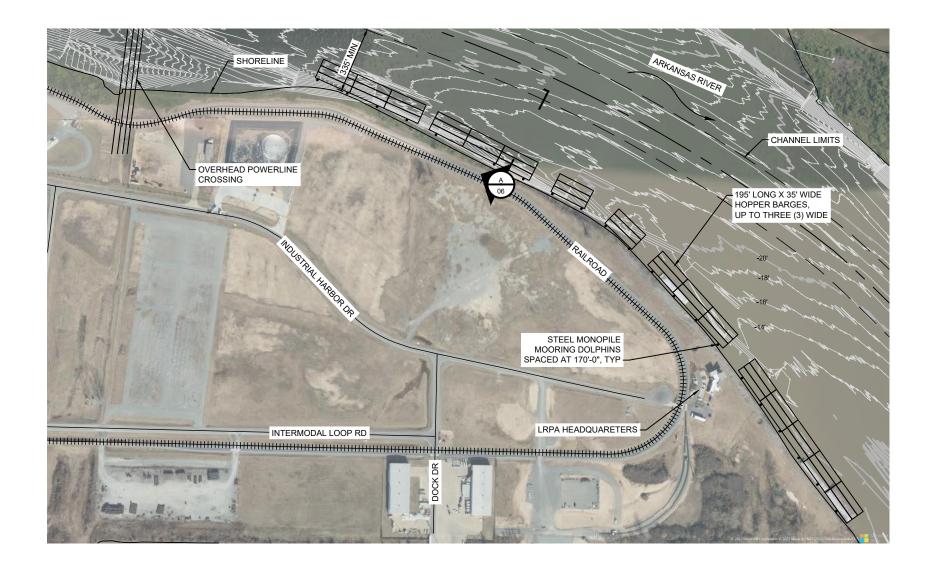


DATE: 02-25-2022

SHEET 01 OF 06

PERMITTING ONLY UNDER THE AUTHORITY OF JUSTIN CARNEY, P.E. AR-18018 ON 2/25/2022. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.





NOTE: CHANNEL CONTOURS TAKEN FROM USACE CHANNEL SURVEY DATED MAY 18,2020





ACTIVITY: PORT OF LITTLE ROCK MOORING UPGRADE PROJECT

APPLICANT: LITTLE ROCK PORT AUTHORITY

DATE: 02-25-2022

HDR PROJECT NO: XX DATUM: NAVD88

REV. DATE:

SHEET 03 OF 06

FOR COE USE ONLY

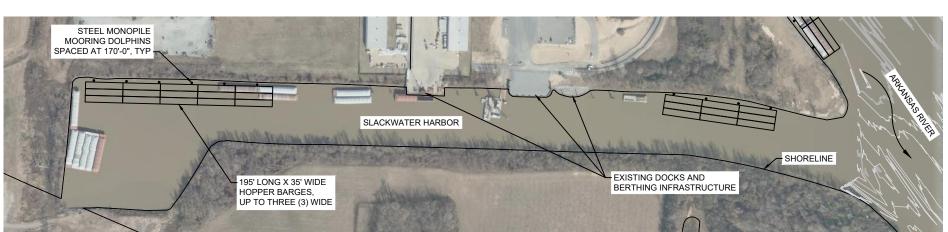
PERMIT APPLICATION NO .: _

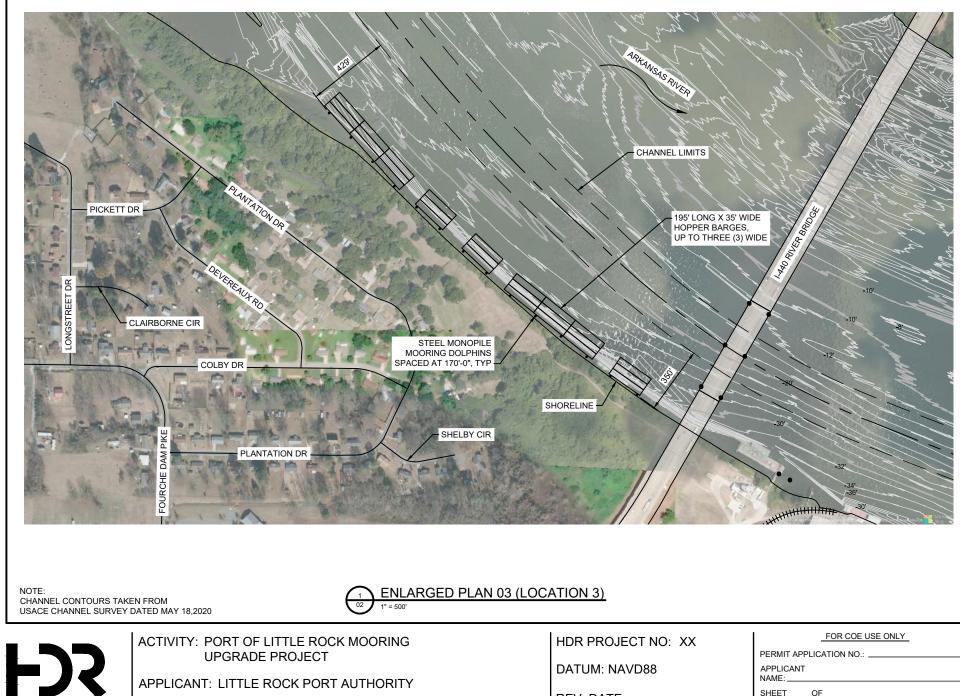
APPLICANT	
NAME:	

SHEET	OF

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PERMITTING ONLY UNDER THE AUTHORITY OF JUSTIN CARNEY, P.E. AR-18018 ON 2/25/2022. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

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APPLICANT: LITTLE ROCK PORT AUTHORITY

DATUM: NAVD88 REV. DATE:

SHEET 05 OF 06

APPLICANT		

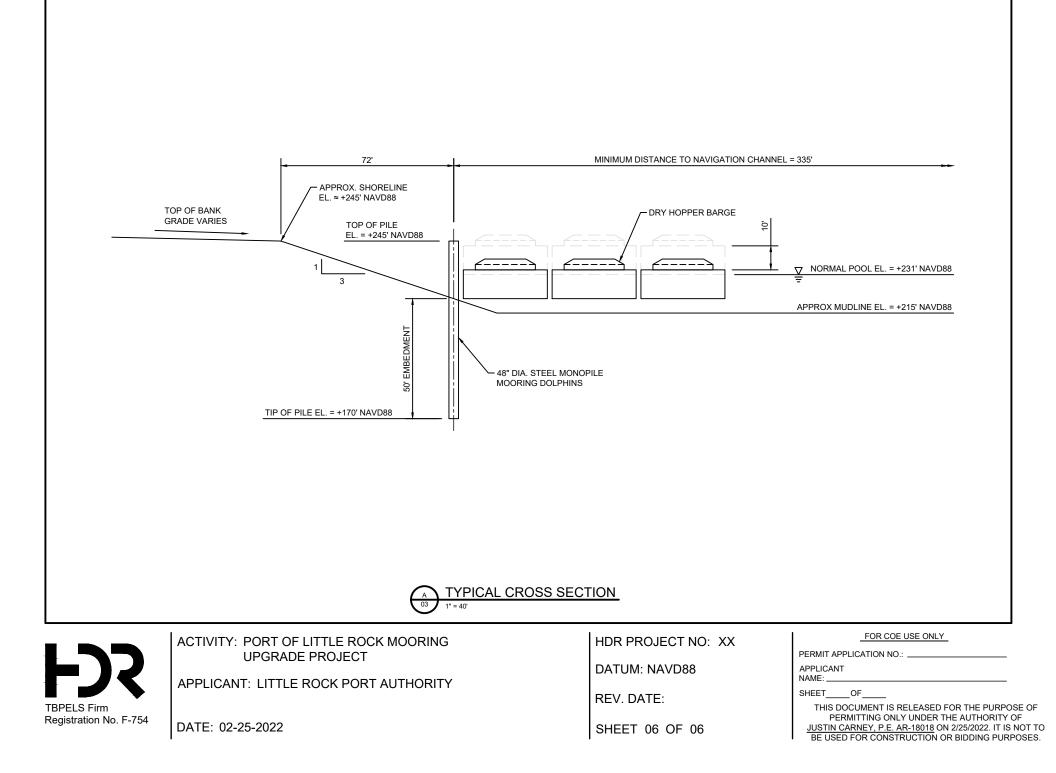
SHEET OF

> THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PERMITTING ONLY UNDER THE AUTHORITY OF <u>JUSTIN CARNEY, P.E. AR-18018</u> ON 2/25/2022. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

DATE: 02-25-2022

TBPELS Firm

Registration No. F-754



Memo

To:	Ms. Lindsey Lewis, U.S. Fish and Wildlife Service, Arkansas Field Office				
From:	Nikki Morgan, HDR	Project: Port of Little Rock Mooring Upgrade Project			
cc:	Justin Carney, HDR Erin Kendle, MARAD				
Date:	3/7/2022	Job No: 10337062			

RE: IPaC Project Planning Tool and Section 7 Determinations

The Little Rock Port Authority (the Port) is proposing to conduct an upgrade to the Port of Little Rock located along the Arkansas River in Little Rock, Pulaski County, Arkansas. In order to comply with Section 7 of the Endangered Species Act (ESA) of 1973, HDR, on behalf of MARAD (lead federal agency) and the Port (local sponsor), species reviews were conducted for the project. HDR accessed the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) tool to determine the potential of federally listed threatened, endangered, or candidate species and/or critical habitat that may be present or have historically been present within the proposed project area.

Threatened and Endangered Species

Results from the IPaC review indicated four (4) threatened, endangered or candidate species may be found within the project area. In addition, the alligator snapping turtle (*Macrochelys temminckii*), which was recently proposed for listing as threatened under the ESA and not currently included in the IPaC review, has the potential to occur within the project area. There are no critical habitats within the project area. **Table 1** below includes a list of species reviewed for this project, details on their preferred habitats, and effect determinations. The official species list developed from the IPaC tool (Project Code: 2022-0013903) and results from the IPaC evaluation process are included in **Attachment A**.

FSS

SPECIES	LISTING STATUS ¹	HABITAT PRESENT	HABITAT DESCRIPTION ²	Effects Determination	
BIRDS					
Eastern black rail Laterallus jamaicensis ssp. jamaicensis	FT	No	Eastern black rails occupy wetlands and marshes in areas of moist soil or shallow flooding. They require dense vegetative cover that allows movement underneath the canopy, such as rushes, sedges, and grasses. Water must stay shallow (0-3cm) during breeding season, as higher water levels can flood nests and drown chicks. The species is likely a vagrant in Arkansas, passing through during migration.	No effect	
Piping plover <i>Charadius melodus</i>	FE	No	Plovers from all three breeding populations winter along coastal beaches and barrier islands. They migrate to their nesting grounds in mid-April and depart mid-July to late August. During fall and spring, plovers use rest sites along the migration pathway including shorelines of reservoirs/man-made lakes, industrial ponds/fish farm ponds, rivers, marsh/wetlands, and natural lakes. These stopover sites are highly influenced by local water levels and tend to consist of locations with muddy/sandy substrates. Migration stopover habitat is not well documented but migrating piping plovers have been observed in Arkansas.	No effect	
Red knot <i>Calidris canutus rufa</i>	FT	No	Prefers the shoreline of coast and bays and uses mudflats during rare inland encounters; primarily seacoasts on tidal flats and beaches, herbaceous wetland, and tidal flat/shore. The red knot can be found in Arkansas during migration, although it is uncommon.	No effect	
INSECTS					
Monarch butterfly <i>Danaus plexippus</i>	FC	No	Monarchs depend on milkweeds that grow in a variety of landscapes including pastures, roadsides, wetlands, prairies, forests, woodlands, agricultural.	No effect	
REPTILES					
Alligator snapping turtle Macrochelys temminckii	FPT	Yes	Hatchlings and juveniles occur in shallow water and smalls streams with mud and gravel bottoms. Juveniles and adults occur within deeper water of large rivers, tributaries, bayous, canals, swamps, lakes, ponds, and oxbows, and shallow water in early summer. They also can occur within structures such as tree roots, stumps, and submerged trees or within stream banks.	May affect, but notlikely to adversely affect	
¹ FE: Federally Endangered; FT: Federally Threatened; FC: Federal Candidate; FP: Federally Proposed Threatened (U.S. Fish and Wildlife Service IPaC Project Code: 2022-0013903 accessed March 1, 2022) ² U.S. Fish and Wildlife Service Arkansas Ecological Service Field Office accessed February 24, 2022.					

Table 1. Threatened, Endangered, and Candidate Species Reviewed for the Project

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Alligator Snapping Turtle - Brief Species Assessment

Alligator snapping turtles (AST) occur in a range of habitat types including deeper water of large rivers and tributaries as well as small streams, bayous, canals, swamps, lakes and reservoirs, ponds, and oxbows. In general, they prefer structures, such as tree roots, stumps, and submerged trees) over open water and tend to favor areas with a high percentage of canopy cover. Currently, the AST occur in Alabama, Arkansas, Florida, Georgia, Illinois, Kentucky, Louisiana, Missouri, Mississippi, Oklahoma, Tennessee, and Texas. According to the USFWS (20210), male and female ASTs select sites with submerged structure or stream banks that have a high percentage of canopy cover. In the summer months, AST select sites with deep water or undercut stream banks. The AST is known to occur within the Arkansas River and is anticipated to occur within the vicinity of the project area.

The project includes impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface. The 47 mooring dolphins are located within open water of the Arkansas River and Slackwater Harbor within an approximate water depth of 12 feet. Temporary impacts within the project area may include disturbance to vegetation along the shoreline and increased water turbidity during installation of the mooring dolphins. However, installation of the mooring dolphins is anticipated to take 4 months and, therefore, temporarily increased water turbidity would be short term and minor. Based on the current use of the project area by the Port of Little Rock, the location of mooring dolphins, and the proposed installation methods, we have determined that this action is not likely to jeopardize the AST.

Designated Critical Habitat

The IPaC Report and the USFWS Critical Habitat Portal indicated there are no designated critical habitats located within the proposed project area.

Summary

No potentially suitable habitat for piping plover, red knot, or the monarch butterfly was identified within the project area. Potentially suitable habitat for the AST was identified within the project area. However, the project is not anticipated to jeopardize the AST. No federally listed critical habitat is present within the Project Area. Based on the proposed project activities, there will be no effects to the piping plover, red knot, or monarch butterfly, and the project may affect, but is not likely to adversely affect the AST.

If you have any questions, please feel free to contact me by email (Nicole.Morgan@hdrinc.com) or phone (361-429-9133).

HDR ENGINEERING, INC.

Mil a. Moyan

Nicole Morgan, Ph.D. Environmental Project Manager

Attachment A - USFWS IPaC Species List and Evaluation Process Results

ATTACHMENT A

USFWS IPaC Species List and Evaluation Process Results

Endangered Species Act Review

EVALUATING: CONSULTATION ON EFFECTS OF PROPOSED PROJECTS TO THREATENED AND ENDANGERED SPECIES IN ARKANSAS

Qualification interview

The following questions will determine whether this key applies to your project and provide guidance to help you make appropriate determinations for the species covered by this key.

1. Have you made an effects determination of "no effect" for all species in the area 0.9 of the project? A "no effect" determination means the project will have no beneficial effect, no short-term adverse effects, and no long-term adverse effects on any of the species on the IPaC-generated species list for the proposed project or those species habitat. A project with effects that cannot be meaningfully measured, detected or evaluated, effects that are extremely unlikely to occur, or entirely beneficial effects should not have a "no effect" determination. (If unsure, select "No").



EVALUATION PROGRESS

When the action agency determines its proposed action will not affect a listed species, there is no need to coordinate further with the Service. If listed species will not be directly or indirectly exposed to the proposed action or any resulting environmental changes, an action agency may conclude "no effect" and document the finding, thus completing the section 7 process. For example, if the species or its suitable habitat is not present in the action area and the project does not otherwise present any effects to the species, action agencies typically conclude and document "No Effect - species not present" as their finding."

As documentation of this "no effect" determination print this screen, add it to your project files, and select "exit review" on the progress ribbon to return to the project home page.

Morgan, Nicole

Lewis, Lindsey <lindsey_lewis@fws.gov></lindsey_lewis@fws.gov>
Tuesday, March 8, 2022 9:02 AM
Morgan, Nicole
Re: [EXTERNAL] U.S. DOT MARAD Section 7 Consultation - Port of Little Rock Mooring Upgrade Project - Pulaski County, AR

CAUTION: [EXTERNAL] 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.

Nicole,

The U.S. Fish and Wildlife Service (Service) has reviewed your Information Planning and Consultation (IPaC) determinations and assessment memorandum. The Service concurs with the "no effect" determinations for the listed species identified through the use of IPaC and the supplemental assessment regarding Monarch Butterfly and Alligator Snapping Turtle. No further consultation for this project is required for these species.

The Service recommends that your agency contact the Arkansas Ecological Services Field Office or re-evaluate this key in IPaC if: 1) the scope, timing, duration, or location of the proposed project changes, 2) new information reveals the action may affect listed species or designated critical habitat; 4) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Arkansas Ecological Services Field Office should take place before project changes are final or resources committed.

Thanks,

Lindsey Lewis Biologist

US Fish & Wildlife Service Arkansas Field Office 110 South Amity Rd., Suite 300 Conway, Arkansas 72032

(501) 513-4489 - voice (501) 513-4480 - fax <u>Lindsey Lewis@fws.gov</u> <u>http://www.fws.gov/arkansas-es/</u>

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

From: Morgan, Nicole <Nicole.Morgan@hdrinc.com>
Sent: Monday, March 7, 2022 10:57 AM
To: Lewis, Lindsey <lindsey_lewis@fws.gov>
Subject: RE: [EXTERNAL] U.S. DOT MARAD Section 7 Consultation - Port of Little Rock Mooring Upgrade Project - Pulaski
County, AR

Hi Lindsey,

Thank you so much for getting back to me on this project. This is the first project I have been requested to go through the IPaC tool steps to obtain determination keys!

Based on my knowledge of the proposed project and the project area, I have developed the attached threatened and endangered species memo that includes determinations as well as information from the IPaC tool. Please let me know if this is what you were referencing in your email and if this meets the requirements.

Sincerely, Nikki Morgan, PhD D 423.508.3176 M 361.429.9133

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From: Lewis, Lindsey <lindsey_lewis@fws.gov>
Sent: Monday, February 28, 2022 3:26 PM
To: Morgan, Nicole <Nicole.Morgan@hdrinc.com>
Subject: Re: [EXTERNAL] U.S. DOT MARAD Section 7 Consultation - Port of Little Rock Mooring Upgrade Project - Pulaski
County, AR

CAUTION: [EXTERNAL] 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.

Ms. Morgan,

Our office has received your request to initiate Section 7 consultation for the proposed Port of Little Rock Mooring Upgrade Project located in Little Rock on the Arkansas River in Pulaski County, AR. We do provide concurrence letters for determinations made in accordance with Section 7 of the Endangered Species Act; however, the information is incomplete due to recent developments. Therefore, as a matter of providing technical assistance, I have reviewed the information you provided and recommend that you first use our online Information for Planning and Consultation (IPaC) system in order to further review this action and obtain species Section 7 determinations and to meet all the requirements necessary.

Please re-visit our IPaC project planning tool that streamlines the USFWS environmental review process at: https://ecos.fws.gov/ipac/. This tool will guide you through both the species review and Section 7 determination process and deliver all the documentation you would likely need. The determination key for *Consultation on effects of proposed projects to threatened and endangered species in Arkansas* will provide you with the determination and letter which you can keep for your records and/or forward on to me for further concurrence and review if you so choose. In the event that the results of this tool are not satisfactory, you may always contact me with direct request for assistance.

Second, the Alligator Snapping Turtle (AST) (*Macrochelys temminckii*) were recently proposed for listing as threatened species under the Act and are not currently included in the IPaC review. The Service also proposed a Section 4(d) rule to provide for their conservation. The potential range and habitats for this species intersect this project; therefore, we recommend including an assessment of effects to the species. Section 7(a)(4) of the Act requires Federal agencies to confer with the Service on any action that is likely to jeopardize the continued existence of proposed species or result in the destruction or adverse modification of proposed critical habitat. The Service decided that critical habitat for the AST is not determinable at this time. **Currently, this means**

that an action agency only has to make a determination as to whether the action is likely to jeopardize a proposed species. A short justification/assessment along with a statement of record stating that, "We have determined that this action is not likely to jeopardize Alligator Snapping Turtle.", would be sufficient if you so decide. You would then need to forward that determination on to me for concurrence.

If a species is subsequently listed prior to completion of the action, section 7(a)(2) of the Act requires Federal agencies to ensure that activities they authorize, fund, or carry out are not likely to jeopardize the continued existence of the species or destroy or adversely modify its critical habitat. If a Federal action may affect a listed species or its critical habitat, the responsible Federal agency must then enter into consultation with the Service.

If you have any questions or need further assistance, please don't hesitate to give me a call.

Thanks,

Lindsey Lewis Biologist

US Fish & Wildlife Service Arkansas Field Office 110 South Amity Rd., Suite 300 Conway, Arkansas 72032

(501) 513-4489 - voice (501) 513-4480 - fax <u>Lindsey_Lewis@fws.gov</u> <u>http://www.fws.gov/arkansas-es/</u>

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

From: Tobin, Melvin <melvin_tobin@fws.gov>
Sent: Monday, February 28, 2022 11:32 AM
To: Lewis, Lindsey <lindsey_lewis@fws.gov>
Subject: Fw: [EXTERNAL] U.S. DOT MARAD Section 7 Consultation - Port of Little Rock Mooring Upgrade Project - Pulaski
County, AR

Lindsey,

Please review.

Melvin L. Tobin Field Supervisor

U.S. Fish and Wildlife Service South Atlantic-Gulf & Mississippi-Basin Unified Interior Regions Arkansas Ecological Services Field Office 110 South Amity Road, Suite 300 Conway, Arkansas 72032

From:	Newcomb, Justin E SWL <justin.e.newcomb@usace.army.mil></justin.e.newcomb@usace.army.mil>
Sent:	Tuesday, April 12, 2022 12:18 PM
То:	Morgan, Nicole
Cc:	Newcomb, Justin E SWL
Subject:	RE: Section 10 Letter of Permission Permit Application - Little Rock Port
	Authority - Pulaski County, AR

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Ms. Morgan,

You might contact these two individuals that work in our structures division. They will be the ones evaluating your anchorage calculation designs for this project. They can provide insight as to whats needed.

Roger (Blake) Allred 501 324 5010 Roger.b.allred@usace.army.mil

Michael Ellis 501 324 5595 Michael.c.ellis@usace.army.mil

As discussed in yesterdays conversation, until we get the discussed anchorage design calculations, it is not a complete application to be processed. Just as soon as I get them, we can move forward with the process.

Let me know if I can help in any way.

Thanks!

From: Morgan, Nicole <Nicole.Morgan@hdrinc.com>
Sent: Sunday, April 10, 2022 3:22 PM
To: Newcomb, Justin E SWL <Justin.E.Newcomb@usace.army.mil>
Subject: [URL Verdict: Neutral][Non-DoD Source] RE: Section 10 Letter of Permission Permit Application
- Little Rock Port Authority - Pulaski County, AR

Hi Justin,

Sorry for my late response! Anchorage design is pending the final design state, but we intend to utilize mooring ring anchors similar to existing infrastructure within Slackwater Harbor at the Port which is shown in the attached photo.

Please let me know if that fully addresses your question or if you need more information. Thank you!

Nikki Morgan, PhD D 423.508.3176 M 361.429.9133

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From: Newcomb, Justin E SWL <<u>Justin.E.Newcomb@usace.army.mil</u>>
Sent: Thursday, March 31, 2022 8:31 AM
To: Morgan, Nicole <<u>Nicole.Morgan@hdrinc.com</u>>
Cc: Newcomb, Justin E SWL <<u>Justin.E.Newcomb@usace.army.mil</u>>
Subject: RE: Section 10 Letter of Permission Permit Application - Little Rock Port Authority - Pulaski
County, AR

CAUTION: [EXTERNAL] 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.

Ms. Morgan,

Hope this email finds you well!

This project is being reviewed as we speak.

Quick Question- Do you have Anchorage Designs for the proposed dolphins?

Thanks!

Justin Newcomb Regulatory Specialist U.S. Army Corps of Engineers, Little Rock District 700 W. Capitol Avenue Little Rock, AR 72203 (501) 340-1379

From: Morgan, Nicole <<u>Nicole.Morgan@hdrinc.com</u>>
Sent: Wednesday, March 23, 2022 6:39 AM
To: Newcomb, Justin E SWL <<u>Justin.E.Newcomb@usace.army.mil</u>>
Subject: [URL Verdict: Unknown][Non-DoD Source] FW: Section 10 Letter of Permission Permit
Application - Little Rock Port Authority - Pulaski County, AR

Good morning Mr. Newcomb,

I am contacting you to see if you have been able to review the permit application for this project. Can you provide me with an update on the status of this project? Please let me know if there are any questions or if you require any additional information.

Kindest Regards,

Nikki Morgan, PhD D 423.508.3176 M 361.429.9133

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From: CESWL-Regulatory <<u>PR-R.CESWL-PR-R@usace.army.mil</u>>
Sent: Wednesday, March 9, 2022 3:06 PM
To: Morgan, Nicole <<u>Nicole.Morgan@hdrinc.com</u>>
Subject: RE: Section 10 Letter of Permission Permit Application - Little Rock Port Authority - Pulaski
County, AR

CAUTION: [EXTERNAL] 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.

Ms. Morgan,

This is the official notification that we have received your request for the LRPA Mooring Upgrade.

Your project will be assigned to our Regulatory Project Manager, Mr. Justin Newcomb. You can contact him either through email at <u>Justin.E.Newcomb@usace.army.mil</u> or on the phone at 501-340-1379.

The project number is SWL-1987-00215.

For more information on the Regulatory Program, visit our website at: http://www.swl.usace.army.mil/Missions/Regulatory.aspx

Willis A. Bullard Legal Instruments Examiner Regulatory Division USACE, Little Rock District

From: Morgan, Nicole <<u>Nicole.Morgan@hdrinc.com</u>>
Sent: Monday, February 28, 2022 9:14 AM
To: CESWL-Regulatory <<u>PR-R.CESWL-PR-R@usace.army.mil</u>>
Cc: Carney, Justin <<u>Justin.Carney@hdrinc.com</u>>; bryan.day@portoflittlerock.com;
Mguffey@portoflittlerock.com; Ryciuk, Caroline <<u>Caroline.Ryciuk@hdrinc.com</u>>
Subject: [Non-DoD Source] Section 10 Letter of Permission Permit Application - Little Rock Port
Authority - Pulaski County, AR

Dear Unit Leader,

The Little Rock Port Authority is proposing to conduct an upgrade to the Port of Little Rock located along the Arkansas River in Little Rock, Pulaski County, AR. The project will include the installation of 47 steel monopile mooring dolphins within three locations at the Port of Little Rock. On behalf of the Little Rock Port Authority, HDR Engineering, Inc. (HDR) is requesting the proposed mooring upgrade project be authorized under a Letter of Permission. A permit application packaged is attached. Please contact me directly if you require more information to begin processing this request.

Sincerely,

Nikki Morgan, PhD Environmental Project Manager

HDR

1201 Market Street, Suite C Chattanooga, TN 37402 0 423-508-3176 C 361.429.9133 nicole.morgan@hdrinc.com

hdrinc.com/follow-us



April 5, 2022

VIA ELECTRONIC MAIL: ben.yahola@alabama-quassarte.org

Ben Yahola Tribal Historic Preservation Officer Alabama-Quassarte Tribal Town PO Box 187 Wetumka, OK, 74883

Subject: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Dear Mr. Yahola,

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD), awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program (PIDP) for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

In keeping with a government-to-government relationship, and in compliance with the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 300101 et seq.), and its implementing regulations, 36 CFR § 800, we invite you to participate in the Section 106 process as a consulting party. As part of the review process, we request information that identifies any resources that may hold traditional religious or cultural significance to the Alabama-Quassarte Tribal Town that could be affected by the proposed work, and, if applicable, assist in developing alternatives that would avoid, minimize, or mitigate any adverse effects.

Project Description

The proposed project is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**). The proposed project, under this submittal, would allow the Port to expand barge fleeting capacity at the Port of Little Rock. The project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres. Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge (**Figure 2**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Previous Surveys

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the project. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the project (see **Figure 2**).

Two of the six previous cultural resource surveys overlap the project footprint. Previous survey AMASDA Number 1313 consisted of an integrated program of geomorphological and archaeological investigations conducted within portions of the McClellan-Kerr Arkansas River Navigation System between Dardanelle, Arkansas and the Mississippi River. This survey encompassed Locations 1 and 3, which include 36 of the proposed 47 mooring dolphins. Previous survey AMASDA Number 142 was conducted during the construction of the Slackwater Harbor where the Location 2 portion of the proposed project recommends construction of the 11 additional dolphins. Details for the previous cultural resource surveys conducted within 1 mi (1.6 km) of the project are listed in Table 1.

AMASDA Number	Agency	Report Title Contractor		Year	Details
142	City of Little Rock, AR	Archeological		1975	Encompasses Location 2
1168	COE, Little Rock	Fourche Creek Flood Control	Archaeological Assessment, Inc.	1986	Outside Project Footprint
1313	COE, Little Rock	Arkansas River Navigation Survey, Pools 1 through 9	Archeological Assessments, Inc.	1987	Encompasses Location 1 and Location 3
2802	COE, Little Rock	Fourche Creek Flood Control Project, Pulaski County	Archeological Assessments, Inc.	1985	Outside Project Footprint
6750	Pollution Management, Inc.	Plantation Drive Sediment Removal	Panamerican Consultants, Inc.	2015	Outside Project Footprint
7532	Crafton Tull	Fourche Dam Pike Widening Project	Flat Earth Archeology, LLC	2020	Outside Project Footprint

Table 1. Previous Cultural Resources Surveys Conducted within 1 Mile of the Project.

Identifier	Affiliation	Features/Function	NRHP Eligibility	Distance from Project
3PU241	Prehistoric	Single Flake	Unknown	0.7 mi south of Location 2
3PU314	Historic	Barge Wreck	Unknown	0.1 mi southwest of Location 2
3PU800	Historic	Fletcher – Baldwin Cemetery, Fletcher – Terry Cemetery	Unknown	0.1 mi west southwest of Location 3
3PU801	Historic	Fletcher Plantation Slave Cemetery	Unknown	0.2 mi west southwest of Location 3

Please note that for the purposes of this project, MARAD has authorized HDR Engineering, Inc. (HDR) to consult with your Tribe on behalf of MARAD. We therefore request that you provide a copy of your response to them.

We value your assistance and look forward to consulting further if there are historic properties of religious and/or cultural significance to your Tribe that may be affected by this project. To meet project timeframes, if you would like to participate or provide information regarding this project, MARAD respectfully requests that you notify us within 30 days.

Due to the ongoing pandemic, I am working remotely and request that all communication be sent electronically. If you have additional questions or comments, please contact me and/or the consultant for the action proponent, Zachary Overfield, RPA, Cultural Resources Practice Leader (HDR) at 210-552-0314 or via email at Zachary.Overfield@hdrinc.com.

Barbara Voulgaris

Barbara Voulgaris Federal Preservation Officer <u>Barbara.Voulgaris@dot.gov</u> 202.366.0866

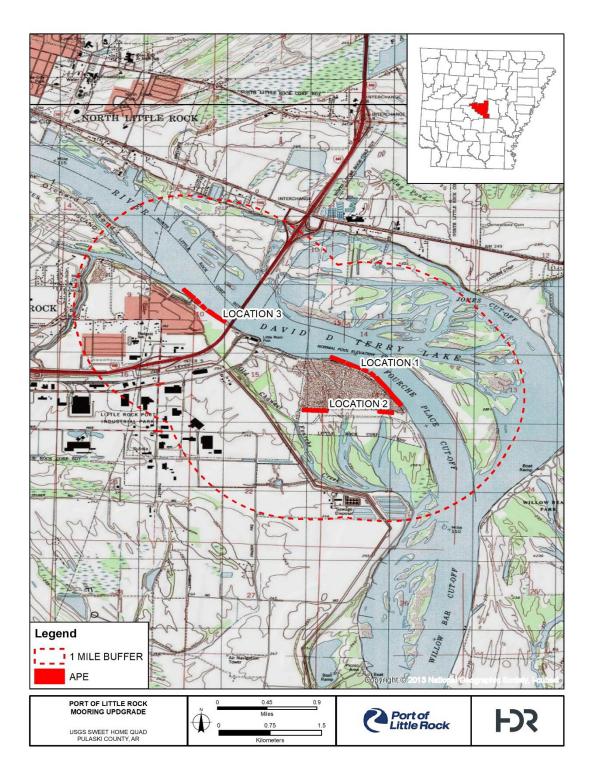


Figure 1. General Location of the Project.

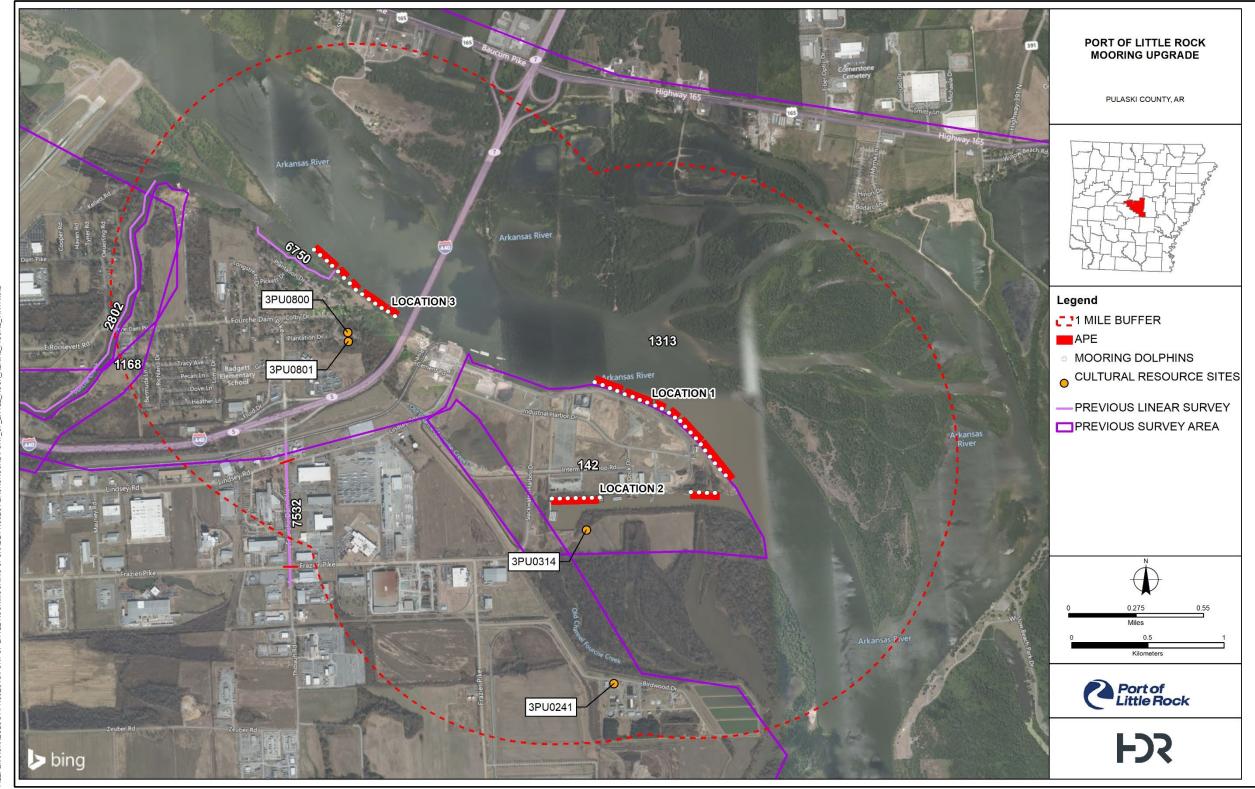


Figure 2. Cultural Resources and Previous Surveys Within 1 Mile of the Project.



April 5, 2022

VIA ELECTRONIC MAIL: durellcooper05@gmail.com

Durell Cooper Chairman Apache Tribe of Oklahoma PO Box 1330 Anadarko, OK, 73005 Subject: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Dear Mr. Cooper,

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD), awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program (PIDP) for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

In keeping with a government-to-government relationship, and in compliance with the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 300101 et seq.), and its implementing regulations, 36 CFR § 800, we invite you to participate in the Section 106 process as a consulting party. As part of the review process, we request information that identifies any resources that may hold traditional religious or cultural significance to the Apache Tribe of Oklahoma that could be affected by the proposed work, and, if applicable, assist in developing alternatives that would avoid, minimize, or mitigate any adverse effects.

Project Description

The proposed project is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**). The proposed project, under this submittal, would allow the Port to expand barge fleeting capacity at the Port of Little Rock. The project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres. Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge (**Figure 2**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Previous Surveys

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the project. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the project (see **Figure 2**).

Two of the six previous cultural resource surveys overlap the project footprint. Previous survey AMASDA Number 1313 consisted of an integrated program of geomorphological and archaeological investigations conducted within portions of the McClellan-Kerr Arkansas River Navigation System between Dardanelle, Arkansas and the Mississippi River. This survey encompassed Locations 1 and 3, which include 36 of the proposed 47 mooring dolphins. Previous survey AMASDA Number 142 was conducted during the construction of the Slackwater Harbor where the Location 2 portion of the proposed project recommends construction of the 11 additional dolphins. Details for the previous cultural resource surveys conducted within 1 mi (1.6 km) of the project are listed in Table 1.

AMASDA Number	Agency	Report Title Contractor		Year	Details
142	City of Little Rock, AR	Archeological		1975	Encompasses Location 2
1168	COE, Little Rock	Fourche Creek Flood Control	Archaeological Assessment, Inc.	1986	Outside Project Footprint
1313	COE, Little Rock	Arkansas River Navigation Survey, Pools 1 through 9	Archeological Assessments, Inc.	1987	Encompasses Location 1 and Location 3
2802	COE, Little Rock	Fourche Creek Flood Control Project, Pulaski County	Archeological Assessments, Inc.	1985	Outside Project Footprint
6750	Pollution Management, Inc.	Plantation Drive Sediment Removal	Panamerican Consultants, Inc.	2015	Outside Project Footprint
7532	Crafton Tull	Fourche Dam Pike Widening Project	Flat Earth Archeology, LLC	2020	Outside Project Footprint

Table 1. Previous Cultural Resources Surveys Conducted within 1 Mile of the Project.

Identifier	Affiliation	Features/Function	NRHP Eligibility	Distance from Project
3PU241	Prehistoric	Single Flake	Unknown	0.7 mi south of Location 2
3PU314	Historic	Barge Wreck	Unknown	0.1 mi southwest of Location 2
3PU800	Historic	Fletcher – Baldwin Cemetery, Fletcher – Terry Cemetery	Unknown	0.1 mi west southwest of Location 3
3PU801	Historic	Fletcher Plantation Slave Cemetery	Unknown	0.2 mi west southwest of Location 3

Please note that for the purposes of this project, MARAD has authorized HDR Engineering, Inc. (HDR) to consult with your Tribe on behalf of MARAD. We therefore request that you provide a copy of your response to them.

We value your assistance and look forward to consulting further if there are historic properties of religious and/or cultural significance to your Tribe that may be affected by this project. To meet project timeframes, if you would like to participate or provide information regarding this project, MARAD respectfully requests that you notify us within 30 days.

Due to the ongoing pandemic, I am working remotely and request that all communication be sent electronically. If you have additional questions or comments, please contact me and/or the consultant for the action proponent, Zachary Overfield, RPA, Cultural Resources Practice Leader (HDR) at 210-552-0314 or via email at Zachary.Overfield@hdrinc.com.

Barbara Voulgaris

Barbara Voulgaris Federal Preservation Officer <u>Barbara.Voulgaris@dot.gov</u> 202.366.0866

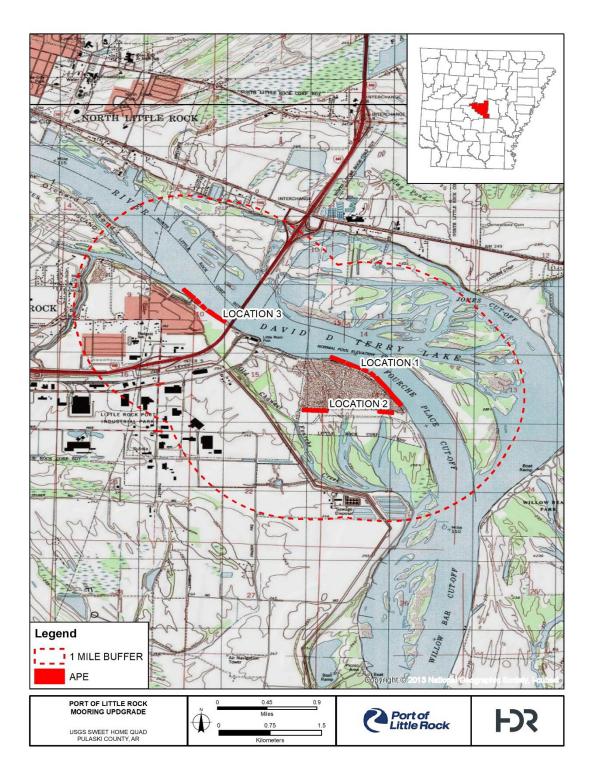


Figure 1. General Location of the Project.

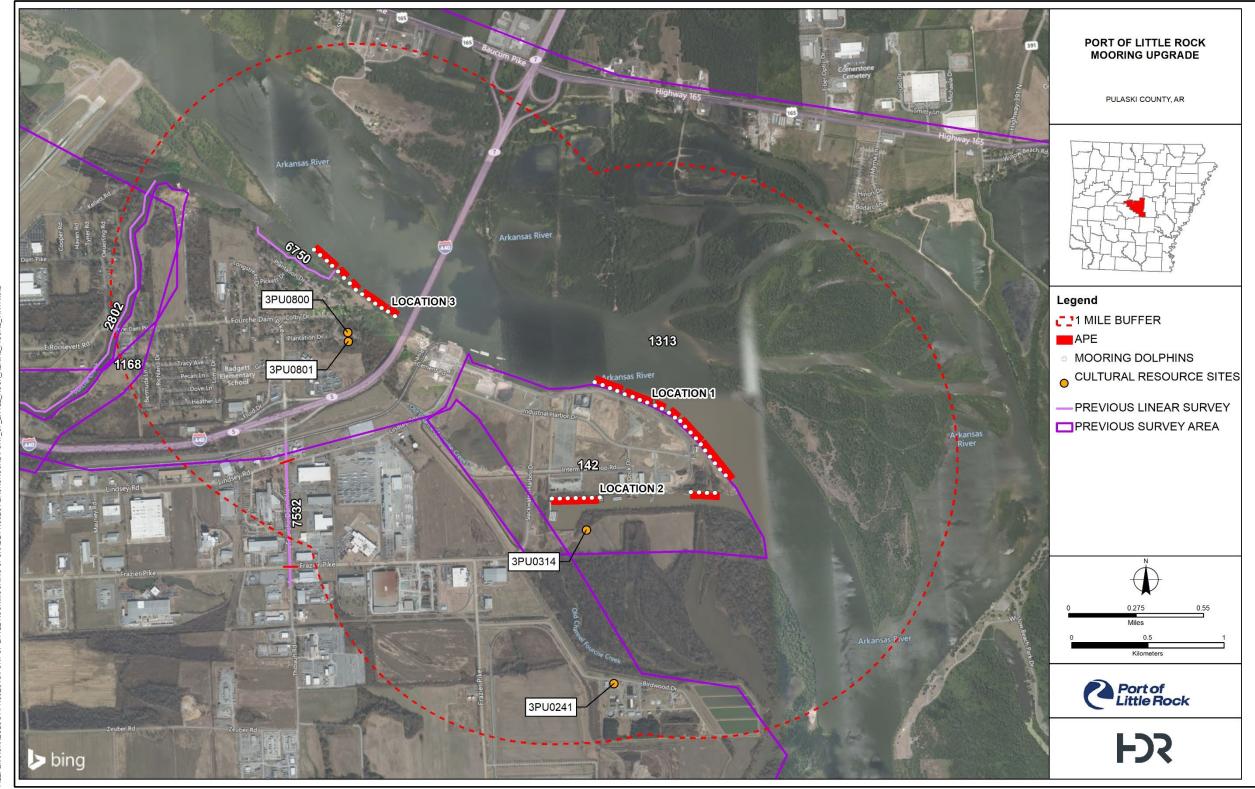


Figure 2. Cultural Resources and Previous Surveys Within 1 Mile of the Project.



April 5, 2022

VIA ELECTRONIC MAIL: elizabeth-toombs@cherokee.org

Elizabeth Toombs Tribal Historic Preservation Officer Cherokee Nation PO Box 948 Tahlequah, OK, 74465

Subject: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Dear Ms. Toombs,

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD), awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program (PIDP) for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

In keeping with a government-to-government relationship, and in compliance with the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 300101 et seq.), and its implementing regulations, 36 CFR § 800, we invite you to participate in the Section 106 process as a consulting party. As part of the review process, we request information that identifies any resources that may hold traditional religious or cultural significance to the Cherokee Nation that could be affected by the proposed work, and, if applicable, assist in developing alternatives that would avoid, minimize, or mitigate any adverse effects.

Project Description

The proposed project is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**). The proposed project, under this submittal, would allow the Port to expand barge fleeting capacity at the Port of Little Rock. The project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres. Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge (**Figure 2**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and

abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Previous Surveys

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the project. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the project (see **Figure 2**).

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AMASDA Number	Agency	Report Title Contractor		Year	Details
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6750	Pollution Management, Inc.	Plantation Drive Sediment Removal	Panamerican Consultants, Inc.	2015	Outside Project Footprint
7532	Crafton Tull	Fourche Dam Pike Widening Project	m Pike Flat Earth		Outside Project Footprint

Table 1. Previous Cultural Resources Surveys Conducted within 1 Mile of the Project.

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Please note that for the purposes of this project, MARAD has authorized HDR Engineering, Inc. (HDR) to consult with your Tribe on behalf of MARAD. We therefore request that you provide a copy of your response to them.

We value your assistance and look forward to consulting further if there are historic properties of religious and/or cultural significance to your Tribe that may be affected by this project. To meet project timeframes, if you would like to participate or provide information regarding this project, MARAD respectfully requests that you notify us within 30 days.

Due to the ongoing pandemic, I am working remotely and request that all communication be sent electronically. If you have additional questions or comments, please contact me and/or the consultant for the action proponent, Zachary Overfield, RPA, Cultural Resources Practice Leader (HDR) at 210-552-0314 or via email at Zachary.Overfield@hdrinc.com.

Barbara Voulgaris

Barbara Voulgaris Federal Preservation Officer Barbara.Voulgaris@dot.gov 202.366.0866

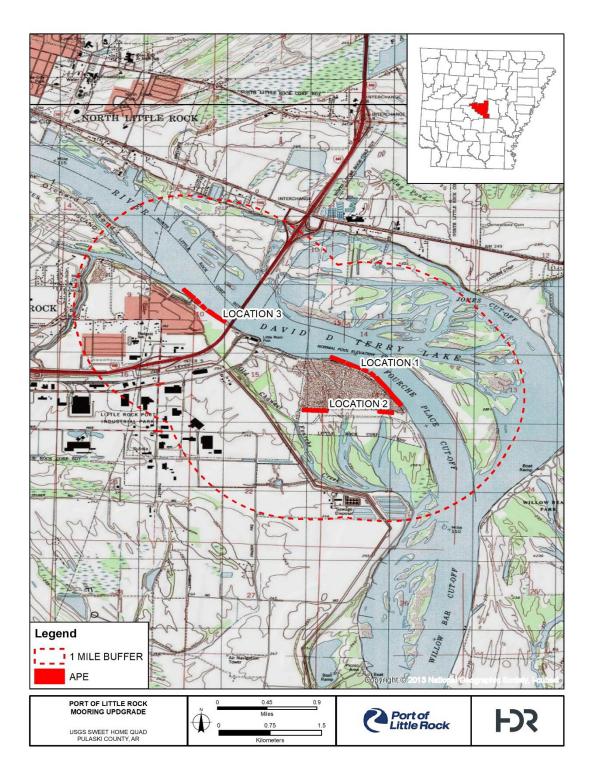


Figure 1. General Location of the Project.

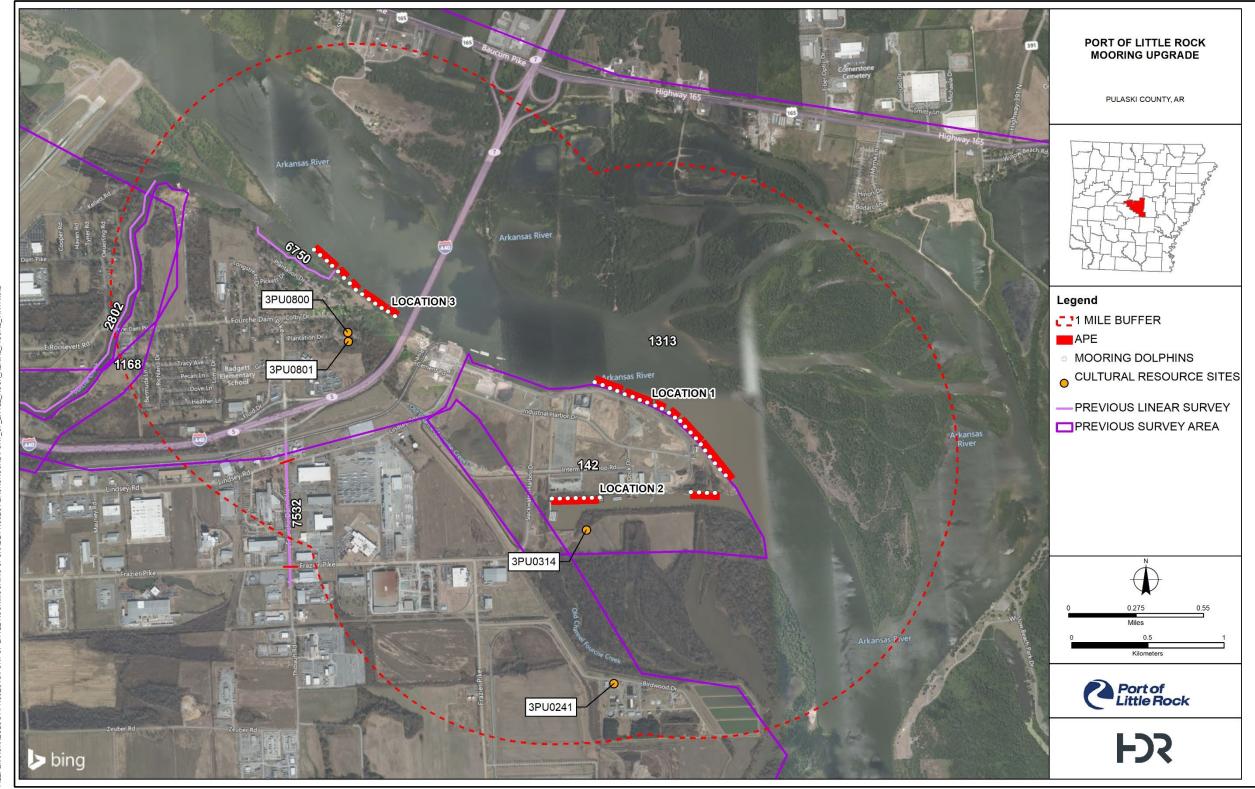


Figure 2. Cultural Resources and Previous Surveys Within 1 Mile of the Project.



April 5, 2022

VIA ELECTRONIC MAIL: ithompson@choctawnation.com

Dr. Ian Thompson Tribal Historic Preservation Officer Choctaw Nation of Oklahoma PO Box 1210 Durant, OK, 74702

Subject: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Dear Dr. Thompson,

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD), awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program (PIDP) for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

In keeping with a government-to-government relationship, and in compliance with the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 300101 et seq.), and its implementing regulations, 36 CFR § 800, we invite you to participate in the Section 106 process as a consulting party. As part of the review process, we request information that identifies any resources that may hold traditional religious or cultural significance to the Choctaw Nation of Oklahoma that could be affected by the proposed work, and, if applicable, assist in developing alternatives that would avoid, minimize, or mitigate any adverse effects.

Project Description

The proposed project is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**). The proposed project, under this submittal, would allow the Port to expand barge fleeting capacity at the Port of Little Rock. The project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres. Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge (**Figure 2**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Previous Surveys

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the project. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the project (see **Figure 2**).

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Table 1. Previous Cultural Resources Surveys Conducted within 1 Mile of the Project.

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Please note that for the purposes of this project, MARAD has authorized HDR Engineering, Inc. (HDR) to consult with your Tribe on behalf of MARAD. We therefore request that you provide a copy of your response to them.

We value your assistance and look forward to consulting further if there are historic properties of religious and/or cultural significance to your Tribe that may be affected by this project. To meet project timeframes, if you would like to participate or provide information regarding this project, MARAD respectfully requests that you notify us within 30 days.

Due to the ongoing pandemic, I am working remotely and request that all communication be sent electronically. If you have additional questions or comments, please contact me and/or the consultant for the action proponent, Zachary Overfield, RPA, Cultural Resources Practice Leader (HDR) at 210-552-0314 or via email at Zachary.Overfield@hdrinc.com.

Barbara Voulgaris

Barbara Voulgaris Federal Preservation Officer Barbara.Voulgaris@dot.gov 202.366.0866

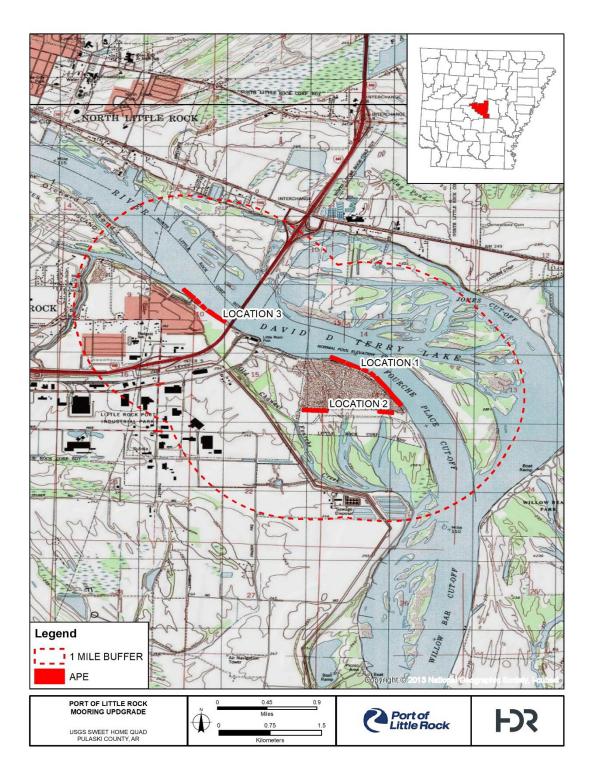


Figure 1. General Location of the Project.

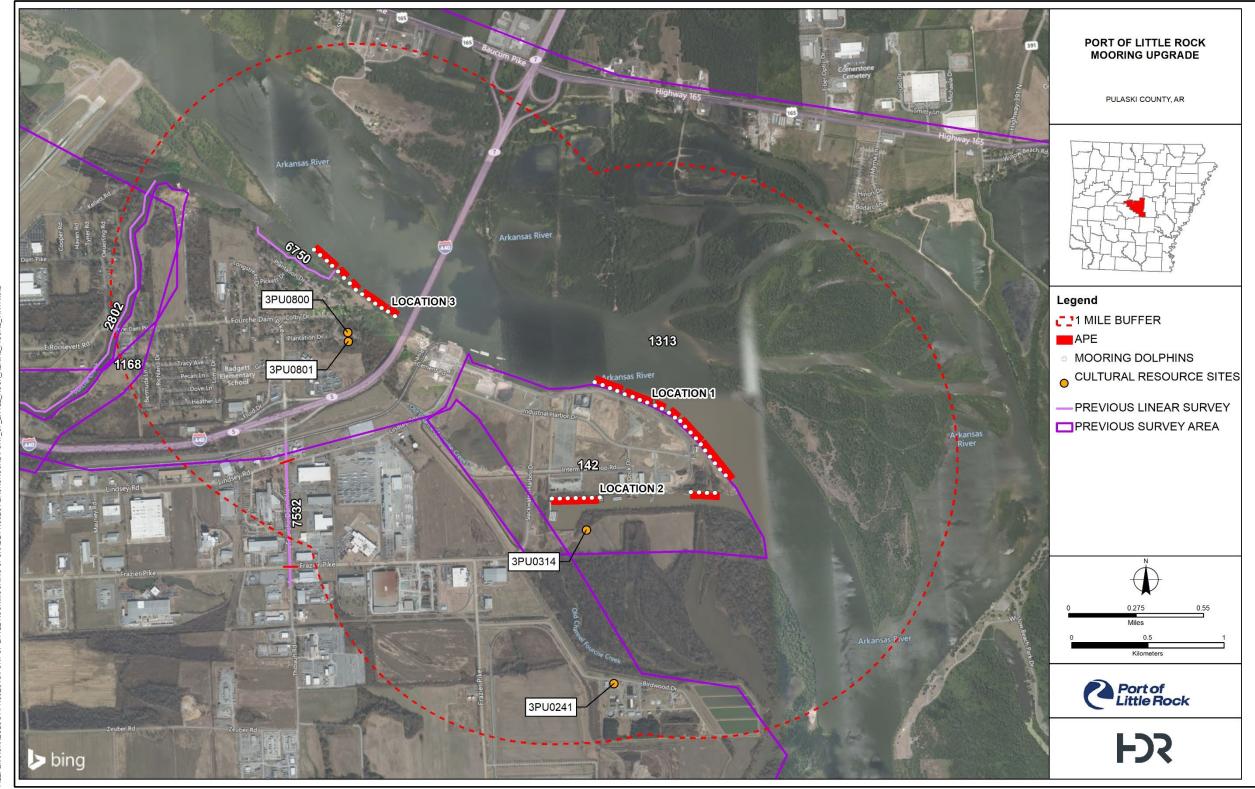


Figure 2. Cultural Resources and Previous Surveys Within 1 Mile of the Project.



April 5, 2022

VIA ELECTRONIC MAIL: kponcho@coushatta.org

Kristian Poncho Tribal Historic Preservation Officer Coushatta Tribe of Louisiana PO Box 10 Elton, LA, 70532

Subject: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Dear Mr. Poncho,

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD), awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program (PIDP) for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

In keeping with a government-to-government relationship, and in compliance with the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 300101 et seq.), and its implementing regulations, 36 CFR § 800, we invite you to participate in the Section 106 process as a consulting party. As part of the review process, we request information that identifies any resources that may hold traditional religious or cultural significance to the Coushatta Tribe of Louisiana that could be affected by the proposed work, and, if applicable, assist in developing alternatives that would avoid, minimize, or mitigate any adverse effects.

Project Description

The proposed project is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**). The proposed project, under this submittal, would allow the Port to expand barge fleeting capacity at the Port of Little Rock. The project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres. Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge (**Figure 2**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Previous Surveys

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the project. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the project (see **Figure 2**).

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Please note that for the purposes of this project, MARAD has authorized HDR Engineering, Inc. (HDR) to consult with your Tribe on behalf of MARAD. We therefore request that you provide a copy of your response to them.

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Barbara Voulgaris Federal Preservation Officer Barbara.Voulgaris@dot.gov 202.366.0866

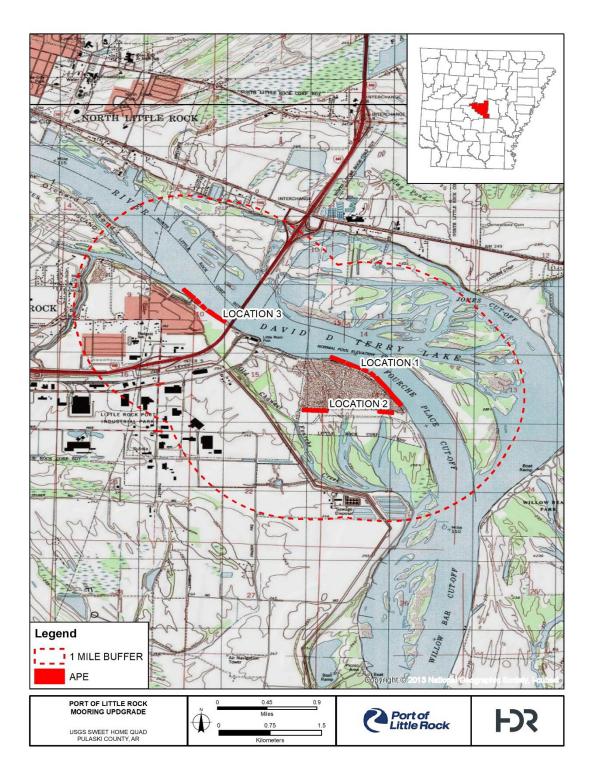


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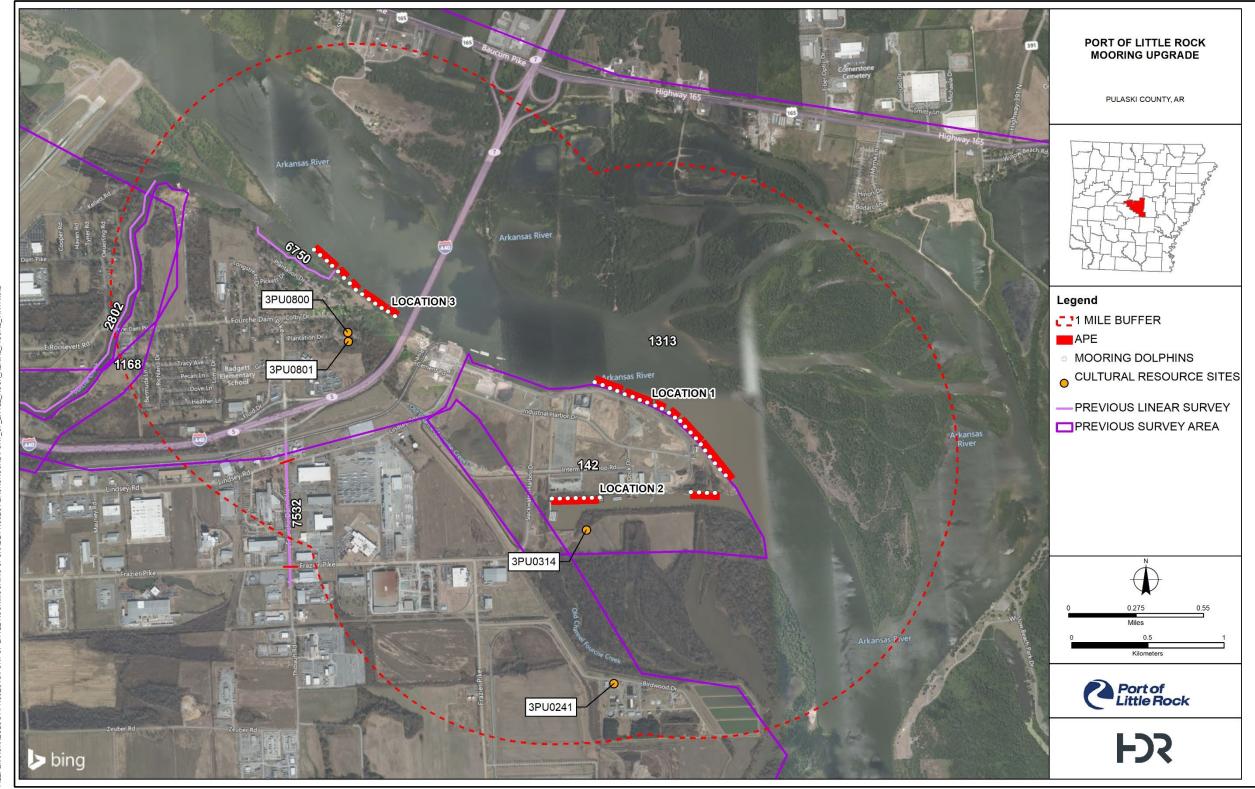


Figure 2. Cultural Resources and Previous Surveys Within 1 Mile of the Project.



April 5, 2022

VIA ELECTRONIC MAIL: info@choctaw.org

Chief Cyrus Ben Mississippi Band of Choctaw Indians 101 Industrial Road Choctaw, MS, 39350

Subject: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Dear Chief Ben,

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD), awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program (PIDP) for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

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Project Description

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For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

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1313	COE, Little Rock	Arkansas River Navigation Survey, Pools 1 through 9	Archeological Assessments, Inc.	1987	Encompasses Location 1 and Location 3
2802	COE, Little Rock	Fourche Creek Flood Control Project, Pulaski County	Archeological Assessments, Inc.	1985	Outside Project Footprint
6750	Pollution Management, Inc.	Plantation Drive Sediment Removal	Panamerican Consultants, Inc.	2015	Outside Project Footprint
7532	Crafton Tull	Fourche Dam Pike Widening Project	Flat Earth Archeology, LLC	2020	Outside Project Footprint

Table 1. Previous Cultural Resources Surveys Conducted within 1 Mile of the Project.

Identifier	Affiliation	Features/Function	NRHP Eligibility	Distance from Project
3PU241	Prehistoric	Single Flake	Unknown	0.7 mi south of Location 2
3PU314	Historic	Barge Wreck	Unknown	0.1 mi southwest of Location 2
3PU800	Historic	Fletcher – Baldwin Cemetery, Fletcher – Terry Cemetery	Unknown	0.1 mi west southwest of Location 3
3PU801	Historic	Fletcher Plantation Slave Cemetery	Unknown	0.2 mi west southwest of Location 3

Please note that for the purposes of this project, MARAD has authorized HDR Engineering, Inc. (HDR) to consult with your Tribe on behalf of MARAD. We therefore request that you provide a copy of your response to them.

We value your assistance and look forward to consulting further if there are historic properties of religious and/or cultural significance to your Tribe that may be affected by this project. To meet project timeframes, if you would like to participate or provide information regarding this project, MARAD respectfully requests that you notify us within 30 days.

Due to the ongoing pandemic, I am working remotely and request that all communication be sent electronically. If you have additional questions or comments, please contact me and/or the consultant for the action proponent, Zachary Overfield, RPA, Cultural Resources Practice Leader (HDR) at 210-552-0314 or via email at Zachary.Overfield@hdrinc.com.

Barbara Voulgaris

Barbara Voulgaris Federal Preservation Officer Barbara.Voulgaris@dot.gov 202.366.0866

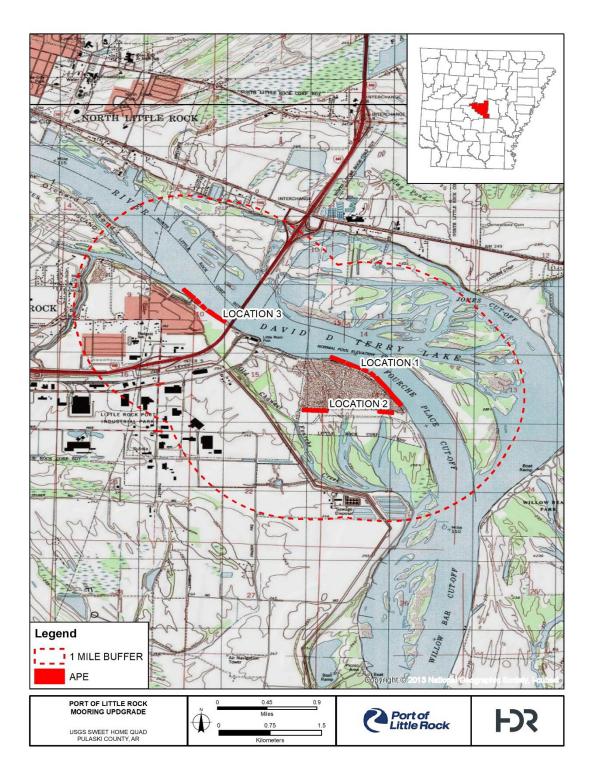


Figure 1. General Location of the Project.

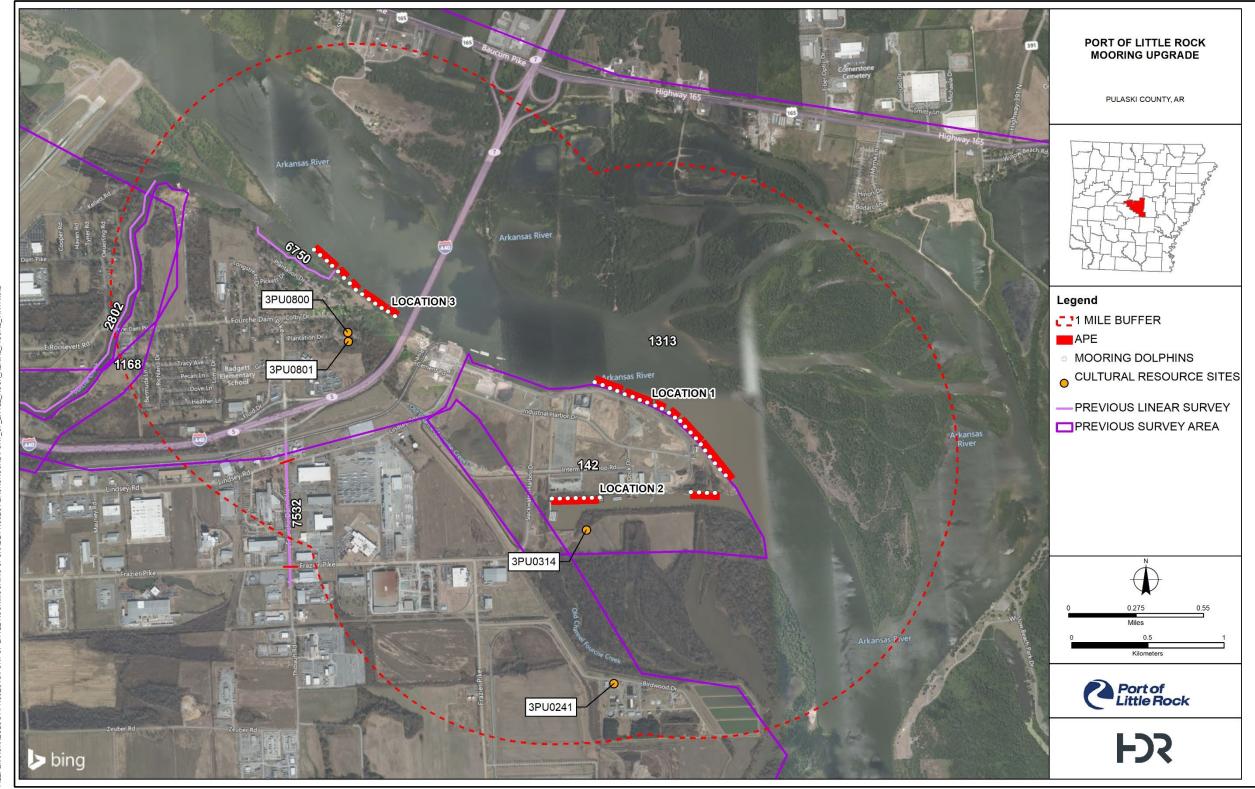


Figure 2. Cultural Resources and Previous Surveys Within 1 Mile of the Project.



April 8, 2022

Dear Zack Overfield:

The following is in response to your request for proof of delivery on your item with the tracking number: **9414 8112 0254 0852 8398 73**.

Item Details			
Status:	Delivered, Individual Picked Up at Post Office		
Status Date / Time:	April 8, 2022, 10:24 am		
Location:	OKMULGEE, OK 74447		
Postal Product:	First-Class Mail [®]		
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Recipient Name:	CORAIN LOWE ZEPEDA Tribal Historic Preservation		
Shipment Details			
Weight:	2.0oz		
Recipient Signature			
Signature of Recipient:	Amber Welliam Prised Nemo Amber Williams		
Address of Recipient:	Datesy P.D. BUX 580 Actions OKMULELL, OK 74447		

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Sincerely, United States Postal Service[®] 475 L'Enfant Plaza SW Washington, D.C. 20260-0004



April 8, 2022

Dear Zack Overfield:

The following is in response to your request for proof of delivery on your item with the tracking number: **9414 8112 0254 0855 9711 67**.

Item Details			
Status: Delivered, Left with Individual			
Status Date / Time:	April 8, 2022, 9:17 am		
Location:	PAWHUSKA, OK 74056		
Postal Product:	First-Class Mail [®]		
Extra Services:	Certified Mail [™]		
	Return Receipt Electronic		
Recipient Name:	DR ANDREA A HUNTER Director and THPO OSAGE NAT		
Shipment Details			
Weight:	2.0oz		
Recipient Signature			
Signature of Recipient:	Jorday Price		
	(~19		
Address of Recipient:	627 GRANDVIEW AVE PAWHUSKA, OK 74056		

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April 8, 2022

Dear Zack Overfield:

The following is in response to your request for proof of delivery on your item with the tracking number: **9414 8112 0254 0855 9380 85**.

Item Details			
Status: Delivered, Individual Picked Up at Post Office			
Status Date / Time:	April 8, 2022, 9:48 am		
Location:	QUAPAW, OK 74363		
Postal Product:	First-Class Mail [®]		
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Recipient Name:	EVERETT BANDY QNHPP Director and THPO QUAPAW TRI		
Shipment Details			
Weight:	2.0oz		
Recipient Signature			
Signature of Recipient:	MELOOM		
	Marrhew Joddtr,		
Address of Recipient:	40 Box 765		

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely, United States Postal Service[®] 475 L'Enfant Plaza SW Washington, D.C. 20260-0004

Morgan, Nicole

From:	Madison D. Currie <mcurrie@choctawnation.com></mcurrie@choctawnation.com>
Sent:	Thursday, May 5, 2022 3:12 PM
То:	Lopez, Paola
Cc:	Lindsey Bilyeu
Subject:	Section 106 consultation: Port of Little Rock Mooring Upgrade Project, Little Rock,
	Pulaski County, Arkansas

CAUTION: [EXTERNAL] 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.

Halito Paola López-Magaña,

The Choctaw Nation of Oklahoma thanks you for the correspondence regarding the above referenced project. Pulaski County, Arkansas lies within our area of historic interest. The Choctaw Nation Historic Preservation Department concurs with the finding of "no effect". However, we ask that work be stopped and our office contacted immediately in the event that Native American artifacts or human remains are encountered.

If you have any questions, please contact me.

Yakoke,

Maddie Danielle Currie NHPA Compliance Review Specialist Historic Preservation Department Choctaw Nation of Oklahoma P.O. Box 1210 Durant, OK 74702 Office: 580-642-8467 Cell: 580-740-9537



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Osage Nation Historic Preservation Office

Date: June 9, 2022

File: 2122-5917AR-4

RE: DOT, MARAD, Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas

Maritime Administration, USDOT Barbara Voulgaris 1200 New Jersey Avenue, SE Washington, D.C. 20590

Dear Ms. Voulgaris,

The Osage Nation Historic Preservation Office has evaluated your submission and concurs that the proposed DOT, MARAD, Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas **most likely will not adversely affect** any sacred properties and/or properties of cultural significance to the Osage Nation. **The Osage Nation has no further concern with this project.**

In accordance with the National Historic Preservation Act, (NHPA) [54 U.S.C. § 300101 et seq.] 1966, undertakings subject to the review process are referred to in 54 U.S.C. § 302706 (a), which clarifies that historic properties may have religious and cultural significance to Indian tribes. Additionally, Section 106 of NHPA requires Federal agencies to consider the effects of their actions on historic properties (36 CFR Part 800) as does the National Environmental Policy Act (43 U.S.C. 4321 and 4331-35 and 40 CFR 1501.7(a) of 1969). The Osage Nation concurs that the Maritime Administration, USDOT has fulfilled NHPA compliance by consulting with the Osage Nation Historic Preservation Office in regard to the proposed DOT, MARAD, Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas.

The Osage Nation has vital interests in protecting its historic and ancestral cultural resources. We do not anticipate that this project will adversely impact any cultural resources or human remains protected under the NHPA, NEPA, the Native American Graves Protection and Repatriation Act, or Osage law. If, however, artifacts or human remains are discovered during project-related activities, we ask that activities cease immediately and the Osage Nation Historic Preservation Office be contacted.

Should you have any questions or need any additional information please feel free to contact me at the number listed below. Thank you for consulting with the Osage Nation on this matter.

Luke A. Morris, MA Archaeologist

1



1200 New Jersey Avenue, SE Washington, DC 20590

April 5, 2022

VIA ELECTRONIC MAIL: stacy.hurst@arkansas.gov

Stacy Hurst Secretary and State Preservation Officer Arkansas Department of Parks, Heritage and Tourism 1100 North Street Little Rock, AR 72201

Subject: U.S. Department of Transportation Maritime Administration Section 106 Initiation Little Rock Port Authority, Port of Little Rock Mooring Upgrade Project, Port Infrastructure Development Program Grant

Dear Ms. Hurst:

The U.S. Department of Transportation (DOT) Maritime Administration (MARAD) awarded funds to the Little Rock Port Authority under the Port Infrastructure Development Grant Program for improvements to the Port of Little Rock on the Arkansas River. The project is located in Little Rock, Pulaski County, Arkansas. The project location is within the city limits of Little Rock at its southeastern edge and contains existing industrial and commercial development.

This action constitutes an undertaking under Section 106 of the National Historic Preservation Act 1966, as amended (54 U.S.C. § 300101 et seq.). Pursuant to Section 106 and its implementing regulations, 36 CFR § 800, MARAD is initiating consultation with your office regarding this project.

Project Description

The proposed project is located at the Port of Little Rock along the Arkansas River and Slackwater Harbor in Little Rock, Pulaski County, Arkansas (**Figure 1**). The proposed project, under this submittal, would allow the Port to expand barge fleeting capacity at the Port of Little Rock. The project will include the installation of 47 steel monopile mooring dolphins (dolphins) at three locations at the Port of Little Rock, totaling approximately 15 acres. Location 1 will include the replacement of 8 existing deteriorated deadman anchors with 22 dolphins along the southern shoreline of the Arkansas River. Location 2 will include the installation of 11 additional dolphins along the northern shoreline of the Slackwater Harbor. Location 3 will include the replacement of 7 deteriorated deadman anchors and the construction of 14 additional dolphins along the southern shoreline of the Arkansas River located north of the I-440 River Bridge (**Figure 2**).

For each location, the 48 inch-diameter steel monopile mooring dolphins will be placed on 170-foot centers to allow barges with tows of varying lengths up to 5 barges long to be placed along each set of dolphins. This arrangement also supports tows 3-barges wide with each individual unit typically measuring 195 feet (ft) long, 35 ft wide, and 12 ft deep.

The 15 deadman anchors that are being replaced have deteriorated and are nearing the end of their useful life. The Port is proposing to decommission the anchors by removing the steel cables and

abandoning them in place. This will result in less environmental impacts compared to removal. Of the 47 mooring dolphins that are necessary for the completion of the proposed project, 15 dolphins will replace the deadman anchors and 32 new structures will be installed. The Port will utilize impact hammering and/or vibratory hammering from barge (on the water) or from the shoreline to drive the mooring dolphins into place at approximate depths of 50 ft below the ground surface and with a top of pile elevation measuring approximately 245 ft (NAVD88).

Area of Potential Effects

Based on our research of the property and its surroundings, including a review conducted by HDR Engineerings, Inc. (HDR) of State Historic Preservation Office (SHPO) records for previously recorded cultural resources in the vicinity, in consultation with the Port of Little Rock, we have defined the Area of Potential Effect (APE) as the three discontiguous locations where the 47 steel monopile mooring dolphins would be installed, totaling approximately 15 acres (see **Figure 1**). HDR verified the lack of visibility of the project beyond the adjacent shoreline during field observations in March 2022.

Identification of Historic Properties

A review of the Automated Management of Archaeological Site Data in Arkansas (AMASDA) was performed in order to identify any previous cultural resource surveys or previously recorded cultural resource sites within 1 mile (mi; 1.6 kilometers [km]) of the project. The AMASDA review indicated that there have been six previous cultural resource surveys and four cultural resource sites identified within a 1-mi search radius of the project (see **Figure 2**).

Two of the six previous cultural resource surveys overlap the project footprint. Previous survey AMASDA Number 1313 consisted of an integrated program of geomorphological and archaeological investigations conducted within portions of the McClellan-Kerr Arkansas River Navigation System between Dardanelle, Arkansas and the Mississippi River. This survey encompassed Locations 1 and 3, which include 36 of the proposed 47 mooring dolphins. Previous survey AMASDA Number 142 was conducted during the construction of the Slackwater Harbor where the Location 2 portion of the proposed project recommends construction of the 11 additional dolphins. Details for the previous cultural resource surveys conducted within 1 mi (1.6 km) of the project are listed in Table 1.

AMASDA	SDA				
Number	Agency	Report Title	Contractor	Year	Details
142	City of Little Rock, AR	Little Rock Port Authority Survey	Arkansas Archeological Survey	1975	Encompasses Location 2
1168	COE, Little Rock	Fourche Creek Flood Control	Archaeological Assessment, Inc.	1986	Outside Project Footprint
1313	COE, Little Rock	Arkansas River Navigation Survey, Pools 1 through 9	Archeological Assessments, Inc.	1987	Encompasses Location 1 and Location 3
2802	COE, Little Rock	Fourche Creek Flood Control Project, Pulaski County	Archeological Assessments, Inc.	1985	Outside Project Footprint
6750	Pollution Management, Inc.	Plantation Drive Sediment Removal	Panamerican Consultants, Inc.	2015	Outside Project Footprint

AMASDA Number	Agency	Report Title	Contractor	Year	Details
7532	Crafton Tull	Fourche Dam Pike Widening Project	Flat Earth Archeology, LLC	2020	Outside Project Footprint

None of the four cultural resource sites identified within the 1 mi (1.6 km) search radius are located within the project footprint (see **Figure 2**). None of the sites have been evaluated for inclusion in the National Register of Historic Places (NRHP) and they are considered to have unknown NRHP status. Details on all the sites are listed in Table 2.

Identifier	Affiliation	Features/Function	NRHP Eligibility	Distance from APE
3PU241	Prehistoric	Single Flake	Unknown	0.7 mi south of Location 2
3PU314	Historic	Barge Wreck	Unknown	0.1 mi southwest of Location 2
3PU800	Historic	Fletcher – Baldwin Cemetery, Fletcher – Terry Cemetery	Unknown	0.1 mi west southwest of Location 3
3PU801	Historic	Fletcher Plantation Slave Cemetery	Unknown	0.2 mi west southwest of Location 3

 Table 2. Previously Recorded Cultural Resource Sites Located within 1 Mile of the Project.

HDR conducted a review of Pulaski County Assessor records, historic topographical maps and aerial photographs, and information provided by the Port of Little Rock in order to identify potential historic properties that had not been previously recorded in the vicinity of the APE. The only historic-age resources identified (45 years of age or older) were located in the vicinity of Location 3.

The Port of Little Rock was first established by city ordinance in 1959, with construction commencing in 1969. The port officially opened in 1971. The southeast half of the port's main warehouse building at Lindsey Road (Latitude: 34.719077, Longitude: -92.177126) appears to be the only extant building associated with the port that dates to its opening. In March 2022, HDR verified the project would not be visible from the warehouse due to topography, heavy vegetation, other buildings, and the bridge carrying Interstate 440 (I-440) across the Arkansas River. Therefore, the warehouse does not fall within the APE. Late 1960s single-family dwellings along Shelby Circle and Plantation Drive, approximately 0.15 mi (220 m) west of Location 3, also fall outside the APE as heavy vegetation and topography prevent visibility of the project.

On March 31, 2022, the following tribes were notified about the Port of Little Rock Mooring Update Project: the Alabama-Quassarte Tribal Town, Apache Tribe of Oklahoma, Cherokee Nation, Choctaw Nation of Oklahoma, Coushatta Tribe of Louisiana, Mississippi Band of Choctaw Indians, Muscogee (Creek) Nation, Osage Nation, and Quapaw Tribe of Indians.

Assessment of Effects

While evaluation of the Port of Little Rock in its entirety was beyond the scope of the current investigation, none of the project components proposed would change the existing character or function of the facility. No other historic properties were identified within the APE. Therefore, for the project as proposed, MARAD has made a finding of No Historic Properties Affected.

Pursuant to 36 CFR 800.4(d)(1), MARAD seeks concurrence by your office with this finding.

Please note that for the purposes of this project, MARAD has authorized HDR to consult with your Agency on behalf of MARAD. We therefore request that you provide a copy of your response to them.

Due to the ongoing pandemic, I am working remotely and request that all communication be sent electronically. If you have additional questions or comments, please contact me and/or the consultant for the action proponent, Zachary Overfield, RPA, Cultural Resources Practice Leader (HDR) at 210-552-0314 or via email at Zachary.Overfield@hdrinc.com. As Section 106 compliance for the project continues, I look forward to our ongoing consultation.

Sincerely,

Barbara Voulgaris

Barbara Voulgaris Federal Preservation Officer <u>Barbara.Voulgaris@dot.gov</u> 202.366.0866

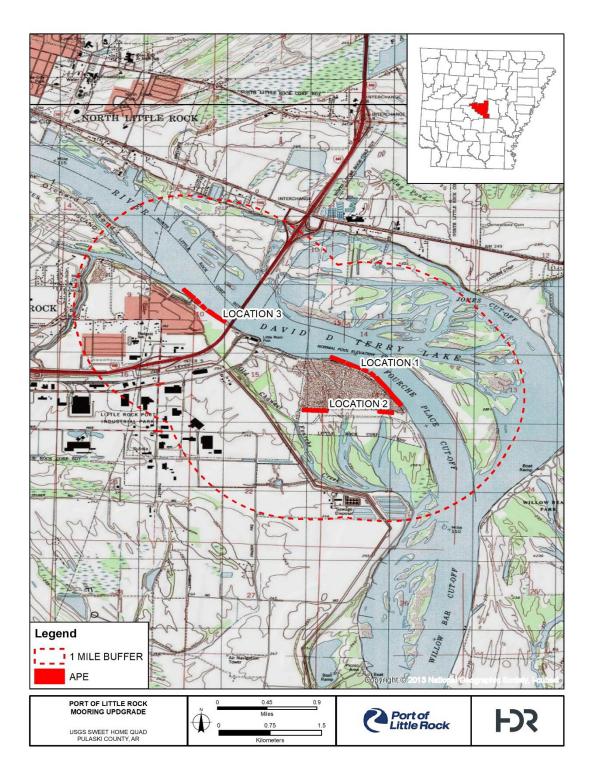


Figure 1. General Location of the Project.

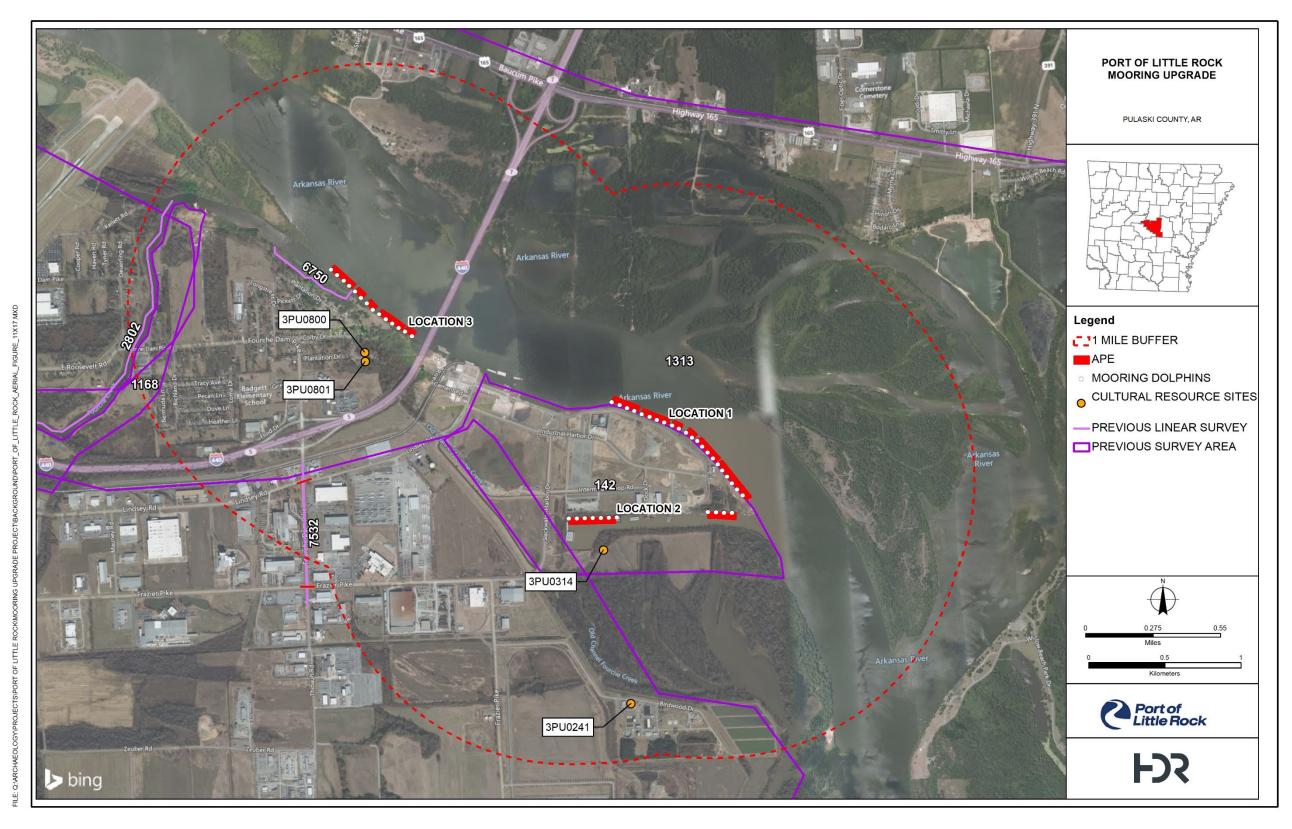


Figure 2. Previously Recorded Cultural Resources and Previous Surveys Within 1 Mile of the Project.





Asa Hutchinson Governor Stacy Hurst Secretary

April 12, 2022

Barbara Voulgaris Federal Preservation Officer U.S. Department of Transportation Maritime Administration 1200 New Jersey Avenue, SE Washington, D.C. 20590

RE: Pulaski County: Little Rock Section 106 Review: USCG Proposed Undertaking: Port of Little Rock Mooring Upgrade Project AHPP Tracking Number: 109662

Dear Ms. Voulgaris:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the submission for the above referenced undertaking in Little Rock, Pulaski County. The proposed undertaking entails replacement and installation of 47 steel monopile mooring dolphins along the southern shoreline of the Arkansas River.

The area of potential effect has been previously surveyed twice. Four previously recorded archeological sites are recorded within one mile of the project, but are located outside of the project's footprint.

Based on the provided information, the AHPP concurs that no historic properties should be affected by this undertaking. In the event of a post-review discovery of historic properties within the area of potential effects, please contact the AHPP and other consulting parties in accordance with 36 CFR § 800.13(b)(3).

Tribes that have expressed an interest in the area include the Caddo Nation, the Cherokee Nation, the Choctaw Nation of Oklahoma, the Jena Band of Choctaw Indians, the Muscogee (Creek) Nation, the Osage Nation, the Quapaw Nation, and the Shawnee Tribe. We recommend consultation in accordance with 36 CFR § 800.2(c)(2).

Thank you for the opportunity to review this undertaking. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, call Kathryn Bryles at 501-324-9784 or email kathryn.bryles@arkansas.gov.

Sincerely,

for Scott Kaufman Director, AHPP

cc: Dr. Melissa Zabecki, Arkansas Archeological Survey

Madison D. Currie
Lopez, Paola
Lindsey Bilyeu
Section 106 consultation: Port of Little Rock Mooring Upgrade Project, Little Rock, Pulaski County, Arkansas
Thursday, May 5, 2022 2:12:24 PM
image001.png

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Halito Paola López-Magaña,

The Choctaw Nation of Oklahoma thanks you for the correspondence regarding the above referenced project. Pulaski County, Arkansas lies within our area of historic interest. The Choctaw Nation Historic Preservation Department concurs with the finding of "no effect". However, we ask that work be stopped and our office contacted immediately in the event that Native American artifacts or human remains are encountered.

If you have any questions, please contact me.

Yakoke,

Maddie Danielle Currie NHPA Compliance Review Specialist Historic Preservation Department Choctaw Nation of Oklahoma P.O. Box 1210 Durant, OK 74702 Office: 580-642-8467 Cell: 580-740-9537

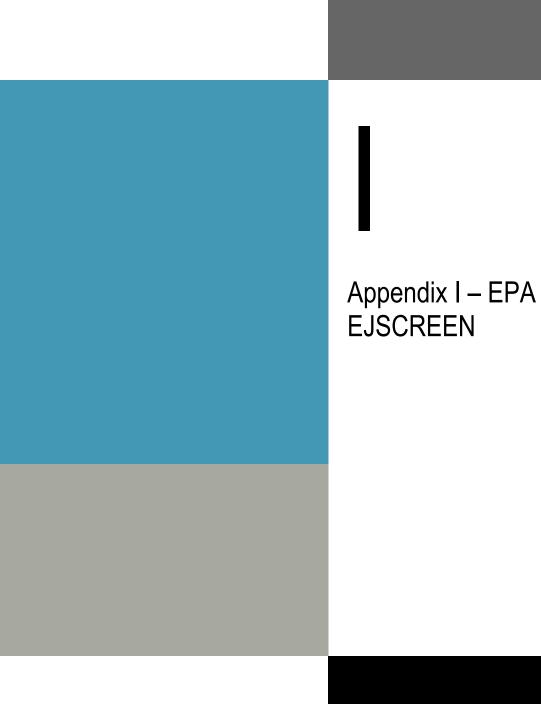
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List of Consulted Tribes

Tribe	Email Address	Mailing Address	Section 106 Medium of Delivery (April 5, 2022)
Alabama-Quassarte Tribal Town	wilson.yargee@alabama-quassarte.org	PO Box 187, Wetumka, OK, 74883	Emailed
Apache Tribe of Oklahoma	durellcooper05@gmail.com	PO Box 1330, Anadarko, OK, 73005	Emailed
Cherokee Nation	elizabeth-toombs@cherokee.org	PO Box 948, Tahlequah, OK, 74465	Emailed
Choctaw Nation of Oklahoma	ithompson@choctawnation.com	PO Box 1210, Durant, OK, 74702	Emailed
Coushatta Tribe of Louisiana	kponcho@coushatta.org	P.O. Box 818, Elton, Louisia na, 70532	Emailed
Mississippi Band of Choctaw Indians	info@choctaw.org	P.O. Box 6010 Choctaw Branch, Choctaw, Mississippi, 39350	Emailed
Muskogee (Creek) Nation	section106@mcn-nsn.gov	PO Box 580, Okmulgee, OK, 74447	Mailed
Osage Nation	ahunter@osagenation-nsn.gov	PO Box 779, Pawhuska, OK, 74056	Mailed
Quapaw Tribe of Indians	ebandy@quapawtribe.com	PO Box 765, Quapaw, OK, 74363	Mailed





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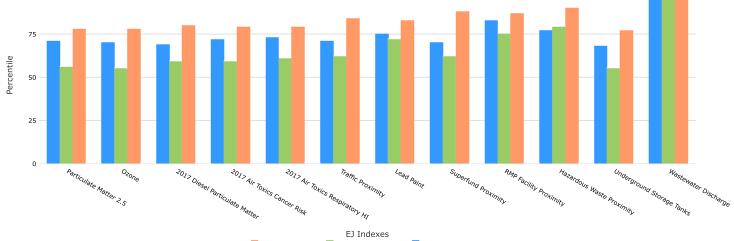


EJScreen Report (Version 2.0)

1 mile Ring around the Area ARKANSAS, EPA Region 6 Approximate Population: 1,096 Input Area (sq. miles): 12.78 POLR 1 mi buffer

Selected Variables	Percentile in State	Percentile in EPA Region	Percentile in USA		
invironmental Justice Indexes					
EJ Index for Particulate Matter 2.5	78	56	71		
EJ Index for Ozone	78	55	70		
EJ Index for 2017 Diesel Particulate Matter*	80	59	69		
EJ Index for 2017 Air Toxics Cancer Risk*	79	59	72		
EJ Index for 2017 Air Toxics Respiratory HI*	79	61	73		
EJ Index for Traffic Proximity	84	62	71		
EJ Index for Lead Paint	83	72	75		
EJ Index for Superfund Proximity	88	62	70		
EJ Index for RMP Facility Proximity	87	75	83		
EJ Index for Hazardous Waste Proximity	90	79	77		
EJ Index for Underground Storage Tanks	77	55	68		
EJ Index for Wastewater Discharge	99	98	97		
El Index for	the Colortad Area Commerced to All	Deeple's Pleckgroups in the State/De	aion /UC		





State Percentile Regional Percentile National Percentile

This report shows the values for environmental and demographic indicators and EJScreen indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports.

â 🕐 i



÷ Search Result (point)

Esri Community Maps Contributors, County of Pulaski, AR, Arkansas GIS Office, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	2

Selected Variables	Value	State		EPA Region		USA	
	Value	Avg.	%tile	Avg.	%tile	Avg.	%tile
Pollution and Sources							
Particulate Matter 2.5 (µg/m³)	9.62	9.27	72	9.32	51	8.74	77
Ozone (ppb)	41.6	41.3	53	41.1	57	42.6	43
2017 Diesel Particulate Matter* (µg/m3)	0.216	0.179	70	0.219	50-60th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	39	35	92	32	90-95th	29	95-100tl
2017 Air Toxics Respiratory HI*	0.52	0.48	94	0.37	95-100th	0.36	95-100tl
Traffic Proximity (daily traffic count/distance to road)	260	180	78	470	59	710	54
Lead Paint (% Pre-1960 Housing)	0.18	0.15	70	0.16	71	0.28	51
Superfund Proximity (site count/km distance)	0.051	0.037	88	0.08	59	0.13	43
RMP Facility Proximity (facility count/km distance)	1.7	0.64	89	0.83	86	0.75	88
Hazardous Waste Proximity (facility count/km distance)	1.9	0.55	92	0.8	87	2.2	69
Underground Storage Tanks (count/km ²)	0.45	1	54	2	34	3.9	35
Wastewater Discharge (toxicity-weighted concentration/m distance)	3.7	0.47	98	0.5	98	12	95
Socioeconomic Indicators							
Demographic Index	57%	34%	85	44%	69	36%	79
People of Color	61%	28%	87	52%	60	40%	72
Low Income	52%	40%	74	36%	76	31%	82
Unemployment Rate	12%	5%	90	5%	91	5%	90
Linguistically Isolated	0%	2%	68	6%	37	5%	45
Less Than High School Education	17%	13%	70	15%	63	12%	74
Under Age 5	7%	6%	62	7%	54	6%	64
Over Age 64	16%	17%	53	13%	68	16%	58

Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update. (https://www.epa.gov/haps/air-toxics-data-update) For additional information, see: www.epa.gov/environmentaljustice (https://www.epa.gov/environmentaljustice)

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.