



**US Army Corps  
of Engineers**

Vicksburg District  
4155 Clay Street  
Vicksburg, MS 39183-3435  
www.mvk.usace.army.mil

# Public Notice

|                  |                                 |
|------------------|---------------------------------|
| APPLICATION NO.: | MVK-2017-00884                  |
| EVALUATOR:       | Jennifer Brown                  |
| PHONE NO.:       | (601) 631-5147                  |
| E-MAIL:          | Jennifer.G.Brown@usace.army.mil |
| DATE:            | November 1, 2024                |
| EXPIRATION DATE: | November 22, 2024               |

Interested parties are hereby notified that the U.S. Army Corps of Engineers, Vicksburg District is considering an application for a Department of the Army Permit for the work described herein. Comments should be forwarded to the Vicksburg District, Attention: CEMVK-RD, 4155 East Clay Street, Vicksburg, Mississippi 39183-3435, and must reach this office by the cited expiration date.

The Clean Water Act (CWA) Section 401 Certification Improvement Rule (Certification Improvement Rule, 40 CFR 121), effective November 27, 2023, requires certification for any license or permit that authorizes an activity that has the potential to result in a discharge. The scope of a CWA Section 401 certification is limited to assuring that a discharge from a Federally licensed or permitted activity will comply with water quality requirements. As of the date of this public notice, the applicant has not submitted a certification request to the Louisiana Department of Environmental Quality (certifying authority). In accordance with Certification Rule part 121.6, once the applicant submits a certification request the Corps of Engineers will notify the certifying agency of the reasonable period of time for them to act upon the certification.

Law Requiring a Permit: Section 404 of the Clean Water Act (33 U.S.C. 1344), which applies to discharges of dredged and/or fill material into waters of the United States and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), which applies to work and/or structures affecting navigable waters of the United States.

Name of Applicant:  
Mr. Aaron Farris  
Performance Proppants  
6356 Highway 3  
Benton, Louisiana 71006

Name of Agent:  
Mr. Chad Turner  
Providence Engineering and  
Environmental Group, LLC  
1201 Main Street  
Baton Rouge, Louisiana 70802

**Location of Work:** The project site is east of Smithville, Arkansas. The project can be located on the U.S.G.S. quadrangle map titled: Doddridge SE. (33.069595, -93.831994). Sections 25 and 36, T19S-R27W, Section 1, T20S-R27W, Sections 30 and 31, T19S-R26W, and Sections 5 and 6, T20S-R26W, Miller County; and Sections 29, 30, 31, and 32, T19S-R26W, and Section 5, T20S-R26W, Lafayette County, within the Red River watershed (8-digit U.S.G.S. HUC 11140201), Arkansas. The project is located on the Red River between River Miles 279 and 281.

**Description of Work:** (See enclosed map and drawings.)

The applicant has previously received a Department of the Army permit, with modifications in May 2019 and January 2024, to mine sand at the River Ridge Ranch facility using a phased approach. As compensatory mitigation is supplied for each phase, work is authorized to commence. Thus far, work has been authorized for Phase 1, Phase 1A, and Phase 2. The Phase 3 proposed work (amended in 2019 from a 14.8-acre area to an 11.5-acre area) has not yet been mitigated and therefore is not yet authorized. The most recent modification removed the previously proposed sandbar area from the current project area and provided a time extension to 2028.

The applicant is currently requesting a new permit modification to include mining for sand in the Red River proper and in a secondary channel of the Red River adjacent to the original project area. The applicant proposes to utilize a hydraulic cutterhead dredge to mine the sand with the sand being pumped overland to the existing sorting/processing facility. The proposed mining would occur over a 20.83-acre area of open water (note: the secondary channel is periodically dry during low water conditions) and would remove 0.84 acres of forested wetlands (converting them to open water). The site would be accessed by a previously permitted access road, and work would be conducted during times of high water in the Red River, using a dredge barge with a floating slurry pipeline. The applicant proposes to conduct dredging events down to elevation 163.00' (between cross sections D-M) and down to elevation 168.00' (starting a cross section M and continuing downstream) at repeated intervals dependent upon natural river sediment replenishment. Up to approximately 1,303,855 cubic yards of sand would be dredged within the riverine project areas for each dredging event.

To compensate for the proposed wetland impacts, the applicant proposes to purchase compensatory mitigation wetland credits from a USACE Vicksburg District approved mitigation bank servicing the hydrologic unit code of the impacts, 8-digit HUC 11140201.

Upon reviewing this notice, you should write to this office to provide your opinion of the impacts this work will have on the natural and human environment and address any mitigation you believe is necessary to offset these impacts. Other

comments are welcome, but the above information will further our review of the applicant's plan as proposed. Comments of a general nature are not as helpful as those specific to the impacts of the subject project.

**State Water Quality Permit:** The State Pollution Control Agency must certify that the described work will comply with the State's water quality standards and effluent limitations before a Corps permit is issued.

**Cultural Resources:** The Vicksburg District's Regulatory Archaeologist has reviewed the latest published version of the National Register of Historic Places, lists of properties determined to be eligible, and other sources of information. The following is the current knowledge of the presence or absence of historic properties and the effects of the proposed undertaking on these properties: The permit area has been so extensively modified that little likelihood exists for the proposed project to imping on a historic property, even if present within the affected area.

**Endangered Species:** The Information for Planning and Consultation tool Threatened and Endangered Species list for the project area includes the red cockaded woodpecker (endangered), the Indiana bat (endangered), eastern black rail (threatened), piping plover (threatened), rufa red knot (threatened) and the alligator snapping turtle (proposed for listing at threatened). Utilizing the Information for Planning and Consultation tool for Endangered Species in Arkansas, the Corps has determined that the proposed activity would have no effect on the red cockaded woodpecker, eastern black rail, piping plover, rufa red knot, and may affect, but would not likely have an adverse effect on the Indiana Bat provided species protective measures are employed by the prospective permittee. Further, the Corps project manager has determined that the proposed activity would not jeopardize the continued existence of the alligator snapping turtle.

**Floodplain:** In accordance with 44 CFR Part 60 (Floodplain Management and Use), participating communities are required to review all proposed development to determine if a floodplain development permit is required. Floodplain administrators should review the proposed development described in this public notice and apprise this office of any flood plain development permit requirements. The project area is located within the 100-year floodplain.

**Evaluation Factors:** The decision to issue a permit will be based upon an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which may be expected to accrue from the proposal must be balanced against its expected adverse effects.

All factors which may be relevant to the proposal will be considered; among these are conservation, economics, aesthetics, general environmental concerns,

historic values, fish and wildlife values, flood damage prevention, land use classification, navigation, recreation, water supply, water quality, energy needs, safety, food requirements and, in general, the needs and welfare of the people. Evaluation of the proposed activity will include application of the guidelines published by the Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act.

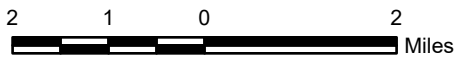
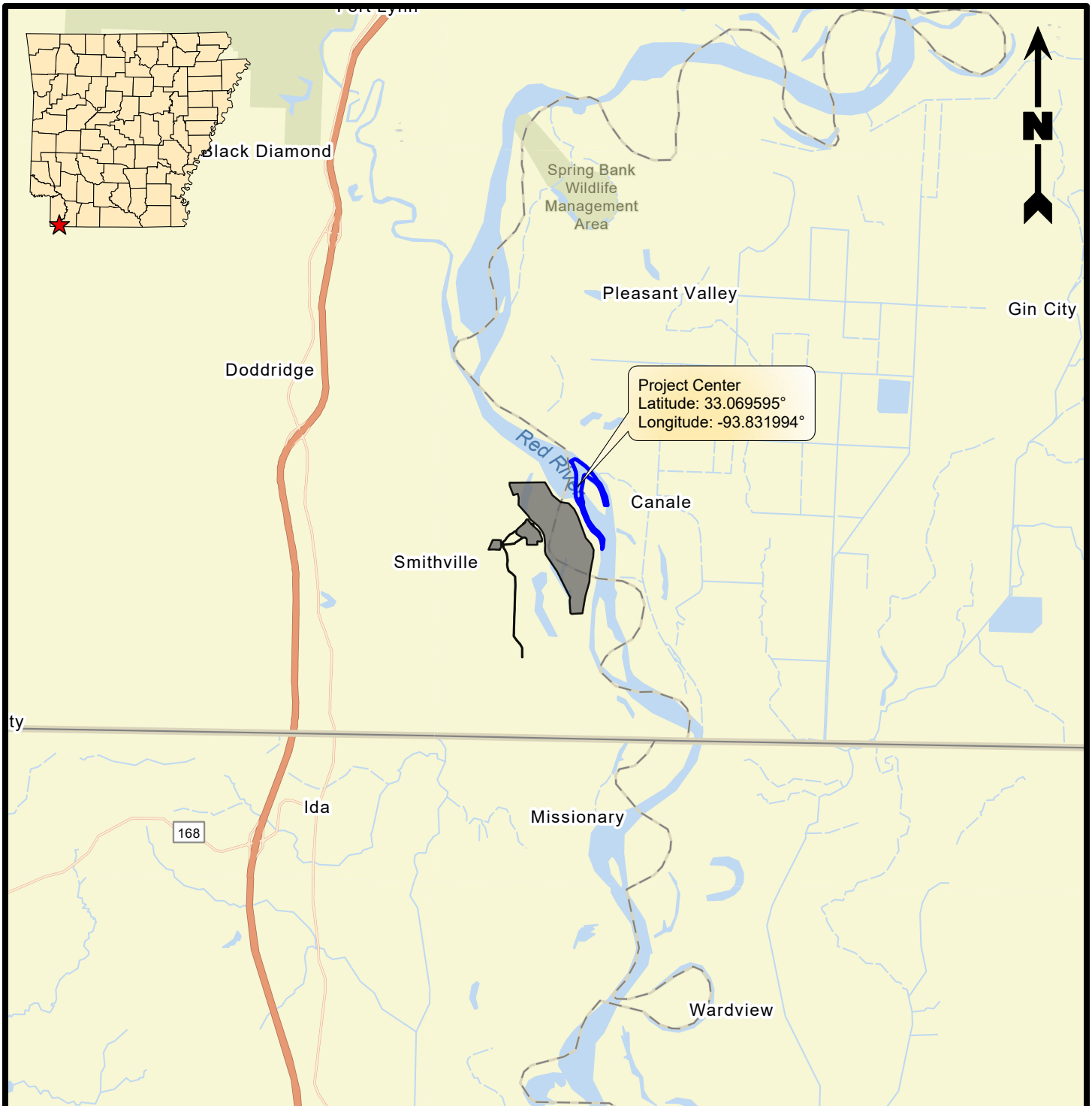
**Public Involvement:** The purpose of this notice is to solicit comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties. These comments will be used to evaluate the impacts of this project. All comments will be considered and used to help determine whether to issue the permit, deny the permit, or issue the permit with conditions, and to help us determine the amount and type of mitigation necessary. This information will be used in our Environmental Assessment or Impact Statement. Comments are also used to determine the need for a public hearing.

**Opportunity for a Public Hearing:** Any person may make a written request for a public hearing to consider this permit application. This request must be submitted by the public notice expiration date and must clearly state why a hearing is necessary. Failure of any agency or individual to comment on this notice will be interpreted to mean that there is no objection to the proposed work. Please bring this announcement to the attention of anyone you know who might be interested in this matter.

**Notification of Final Permit Actions:** Each month, the final permit actions from the preceding month are published on the Vicksburg District Regulatory web page. To access this information, you may follow the link from the Regulatory web page, <http://www.mvk.usace.army.mil/Missions/Regulatory.aspx>.

Andy Sanderson  
Chief, Arkansas/Louisiana Branch  
Regulatory Division





## Legend

- Project Area (72.27 Acres)
- Previously Permitted Project Area (MVK-2017-884)

## Reference

Base map comprised of ESRI StreetMap USA data.

## Vicinity Map

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



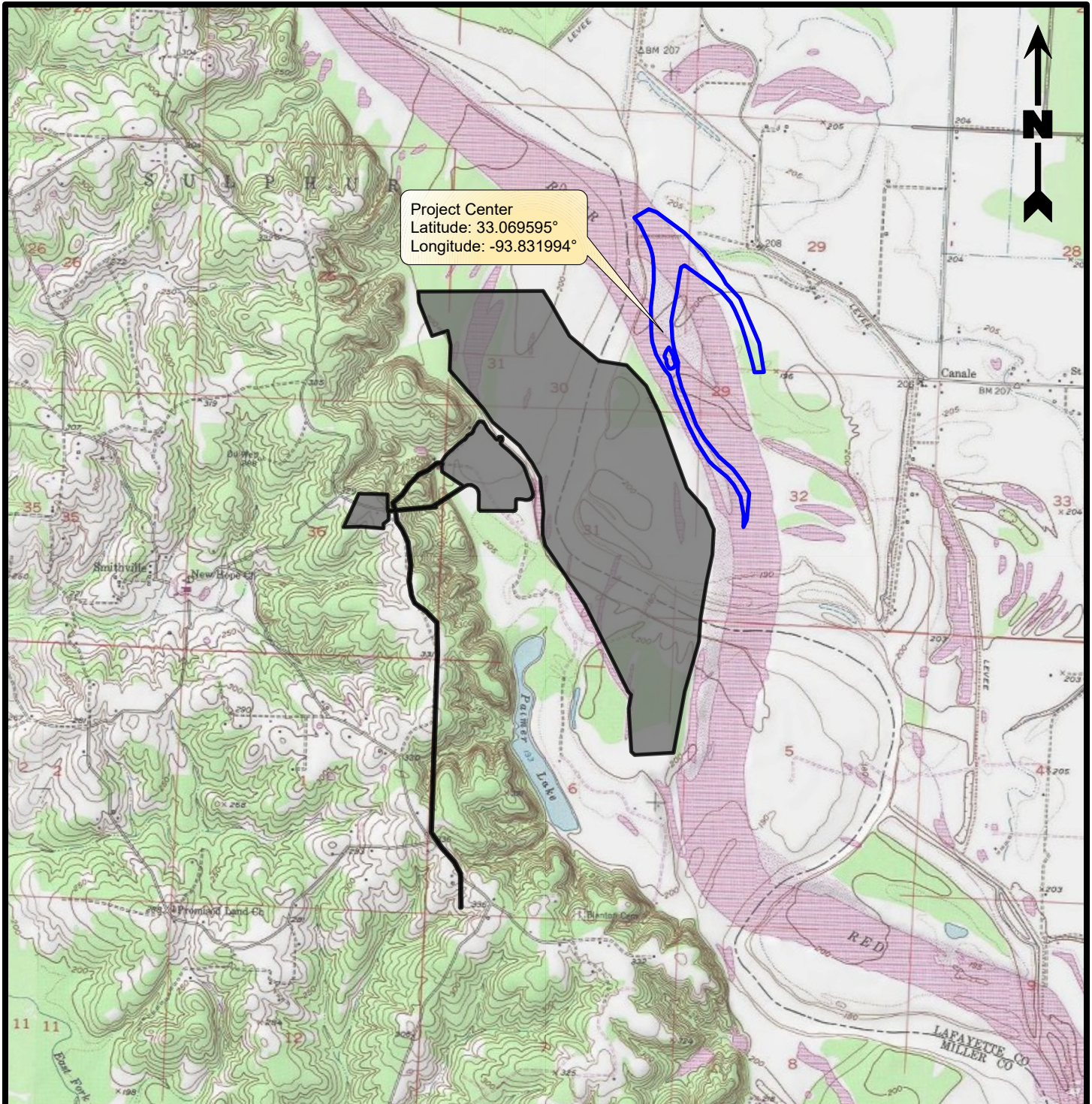
**PROVIDENCE**

|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                   |
|-------------------|
| Project Number    |
| 1148-003-001      |
| Drawing Number    |
| 1148-003-001-A128 |

**1**  
Figure





3,000 1,500 0 3,000  
Feet

## Legend

- Project Area (72.27 Acres)
- Previously Permitted Project Area (MVK-2017-884)

## Reference

Base map comprised of United States Geological Survey 7.5-minute topographic map(s), "Doddridge, AR" and "Doddridge SE, AR".

## Site Location Map

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

## Performance Proppants, LLC

River Ridge Ranch Sand Dredging

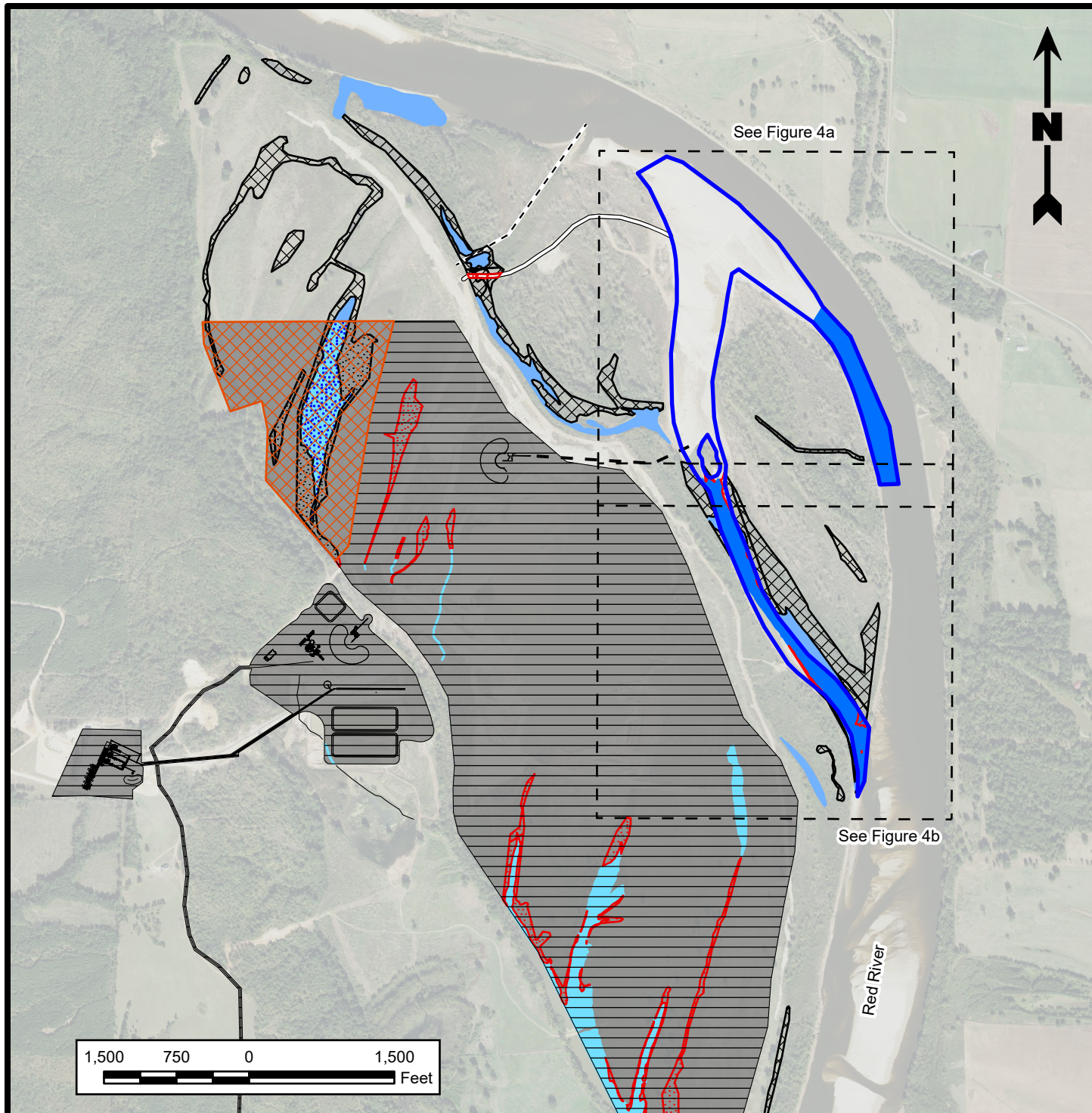


**PROVIDENCE**

|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                                     |                    |
|-------------------------------------|--------------------|
| Project Number<br>1148-003-001      | <b>2</b><br>Figure |
| Drawing Number<br>1148-003-001-A129 |                    |





## Legend

|  |   |
|--|---|
| Project Area (72.27 Acres)                       | Previously Permitted and Mitigated Area               |
| Previously Permitted Access Road                 | Previously Mitigated Impacted Wetlands                |
| Impacted PFO Wetlands (0.84 Acre)                | Previously Mitigated Impacted Waters                  |
| Impacted Waters (20.83 Acres)                    | Previously Permitted Project Area (Not Yet Mitigated) |
| Non-Impacted Wetlands                            | Previously Permitted/Not Yet Mitigated Wetlands       |
| Non-Impacted Waters                              | Previously Permitted/Not Yet Mitigated Waters         |
| Previously Permitted Project Area (MVK-2017-884) | Dike Centerline                                       |
| Proposed Slurry Pipeline                         |   |

## Reference

Base map comprised of 2021 aerial photography from USDA/FSA Aerial Photography Field Office, National Agriculture Imagery Program (NAIP).

## Project Overview Map

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



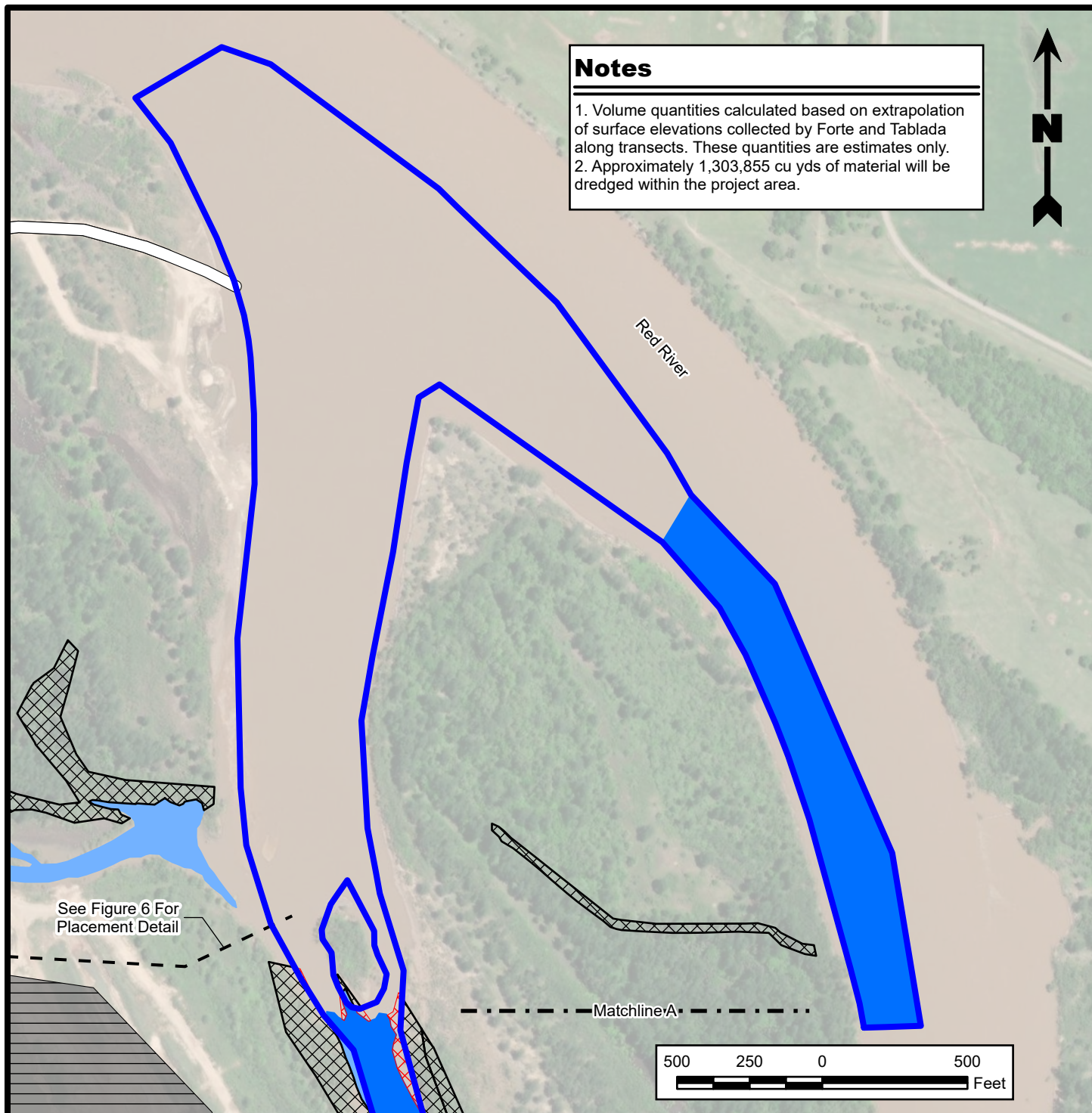
**PROVIDENCE**

|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                                     |
|-------------------------------------|
| Project Number<br>1148-003-001      |
| Drawing Number<br>1148-003-001-A130 |

**3**  
Figure





### Notes

1. Volume quantities calculated based on extrapolation of surface elevations collected by Forte and Tablada along transects. These quantities are estimates only.
2. Approximately 1,303,855 cu yds of material will be dredged within the project area.

See Figure 6 For Placement Detail

Matchline A

500 250 0 500  
Feet

### Legend

- |  |   |
|--|---|
| Project Area (72.27 Acres)                       | Previously Permitted and Mitigated Area               |
| Previously Permitted Access Road                 | Previously Mitigated Impacted Wetlands                |
| Impacted PFO Wetlands (0.84 Acre)                | Previously Mitigated Impacted Waters                  |
| Impacted Waters (20.83 Acres)                    | Previously Permitted Project Area (Not Yet Mitigated) |
| Non-Impacted Wetlands                            | Previously Permitted/Not Yet Mitigated Wetlands       |
| Non-Impacted Waters                              | Previously Permitted/Not Yet Mitigated Waters         |
| Previously Permitted Project Area (MVK-2017-884) | Dike Centerline                                       |
| Proposed Slurry Pipeline                         |   |

### Reference

Base map comprised of 2021 aerial photography from USDA/FSA Aerial Photography Field Office, National Agriculture Imagery Program (NAIP).

## Dredge Area Site Plan

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging

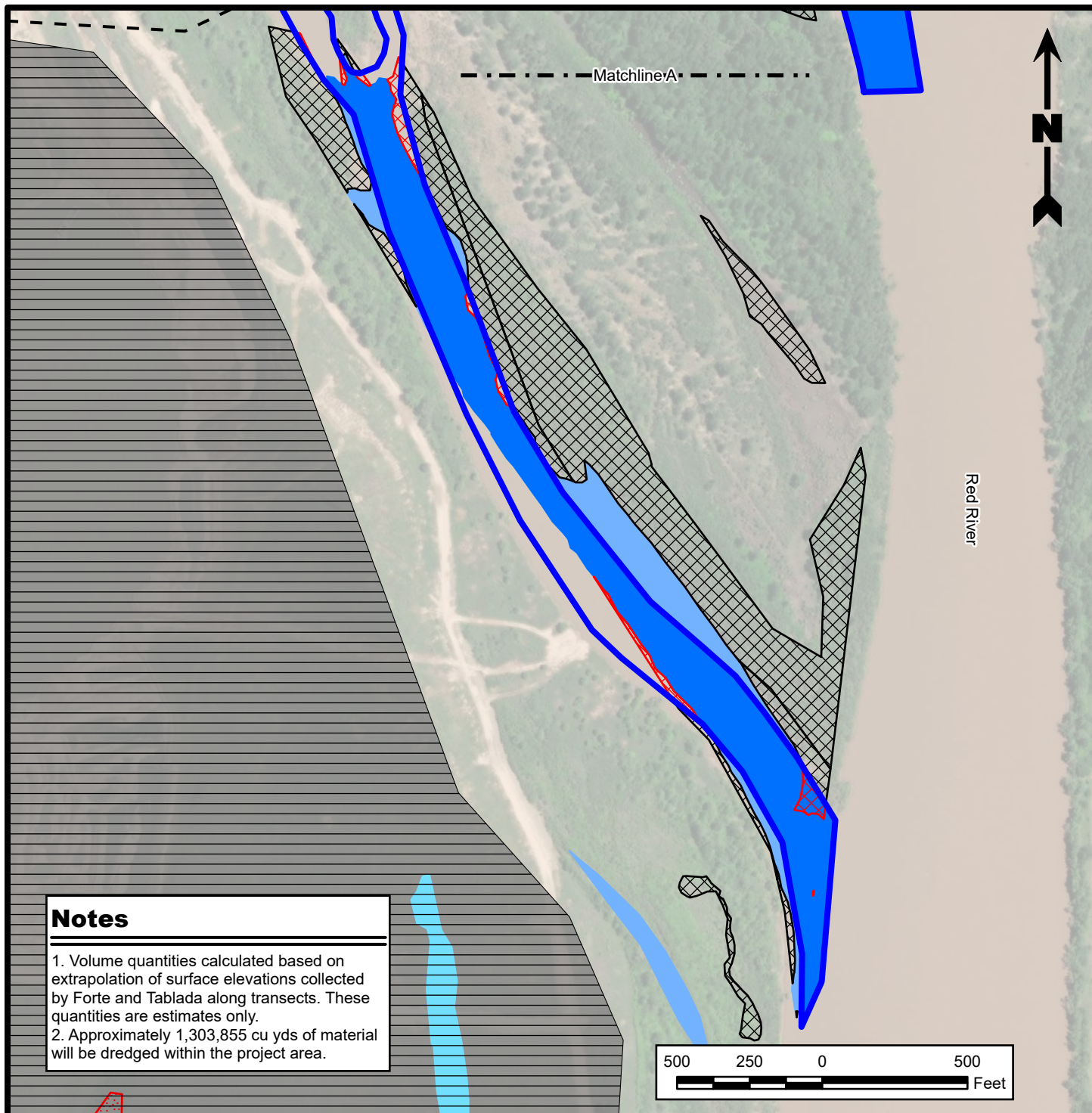


**PROVIDENCE**

|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A131 |

**4a**  
Figure



## Legend

|  |   |
|--|---|
| Project Area (72.27 Acres)                       | Previously Permitted and Mitigated Area               |
| Previously Permitted Access Road                 | Previously Mitigated Impacted Wetlands                |
| Impacted PFO Wetlands (0.84 Acre)                | Previously Mitigated Impacted Waters                  |
| Impacted Waters (20.83 Acres)                    | Previously Permitted Project Area (Not Yet Mitigated) |
| Non-Impacted Wetlands                            | Previously Permitted/Not Yet Mitigated Wetlands       |
| Non-Impacted Waters                              | Previously Permitted/Not Yet Mitigated Waters         |
| Previously Permitted Project Area (MVK-2017-884) | Dike Centerline                                       |
| Proposed Slurry Pipeline                         |   |

## Reference

Base map comprised of 2021 aerial photography from USDA/FSA Aerial Photography Field Office, National Agriculture Imagery Program (NAIP).

## Dredge Area Site Plan

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



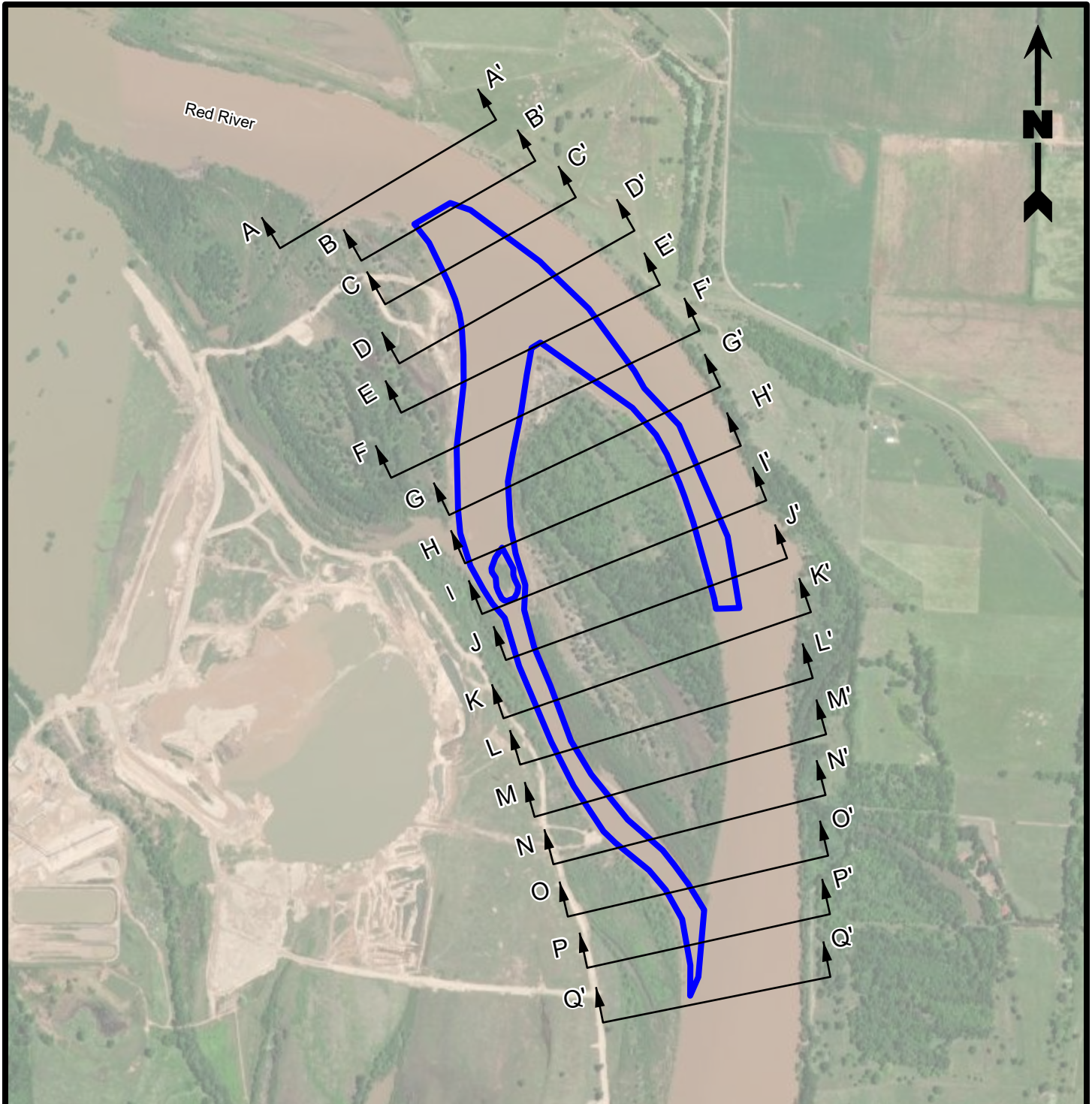
**PROVIDENCE**

|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A131 |

**4b**  
Figure





1,200 600 0 1,200  
Feet

### Legend

 Project Area (72.27 Acres)

### Reference

Base map comprised of ESRI World Imagery, exported 09/19/24.

## Cross Section Overview Map

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

### Performance Proppants, LLC

River Ridge Ranch Sand Dredging

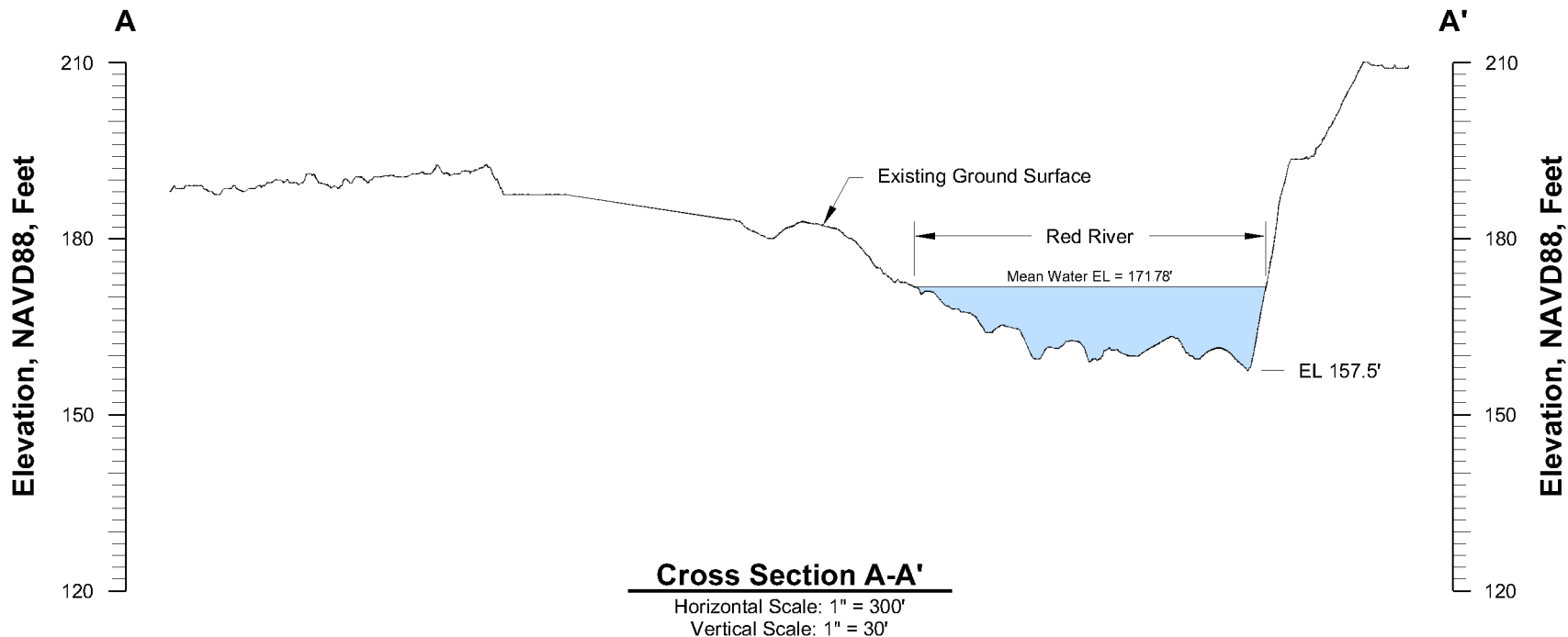


**PROVIDENCE**




|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A149 |

**5**  
Figure



## Legend

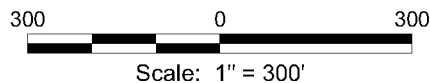
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
 No Data Captured Due To Flooding Event
 Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section A-A'

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

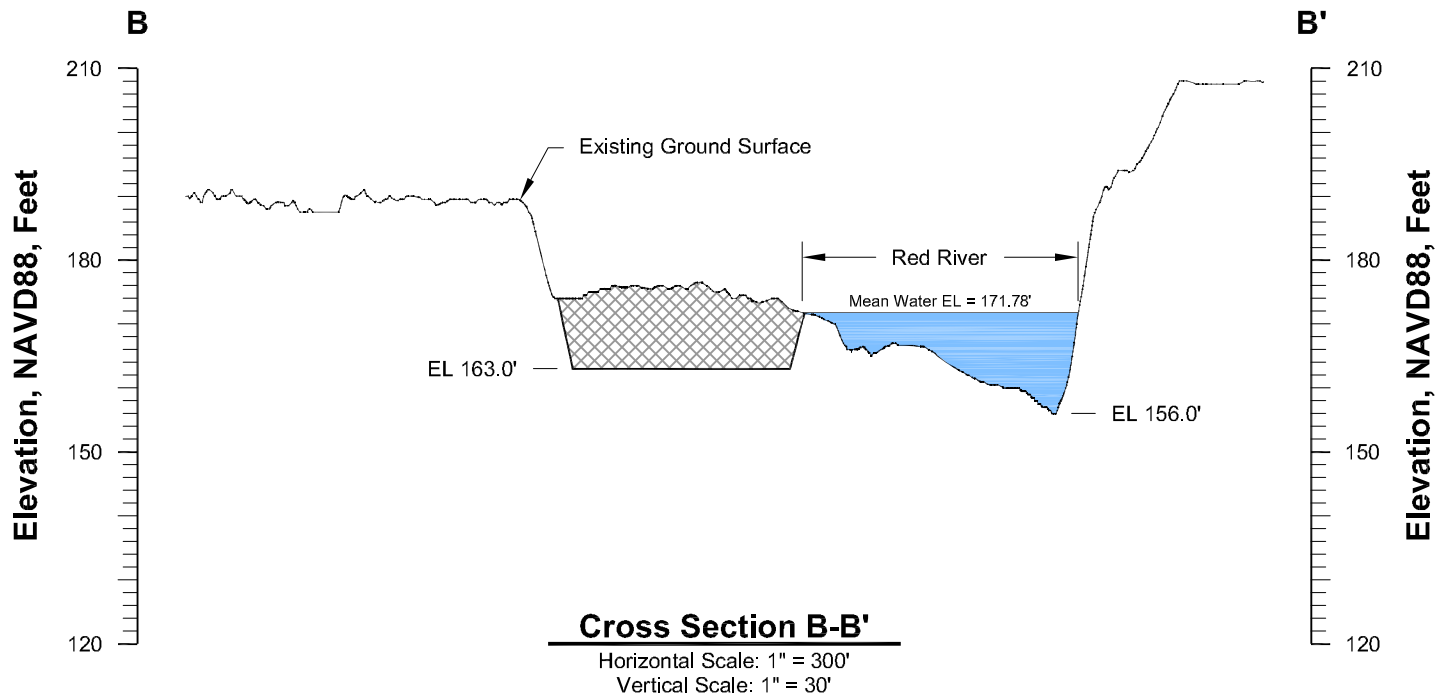
Performance Proppants, LLC  
River Ridge Ranch Sand Dredging






|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A132 |

**5a**  
Figure



## Legend

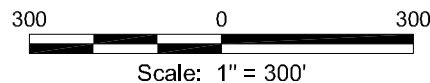
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section B-B'

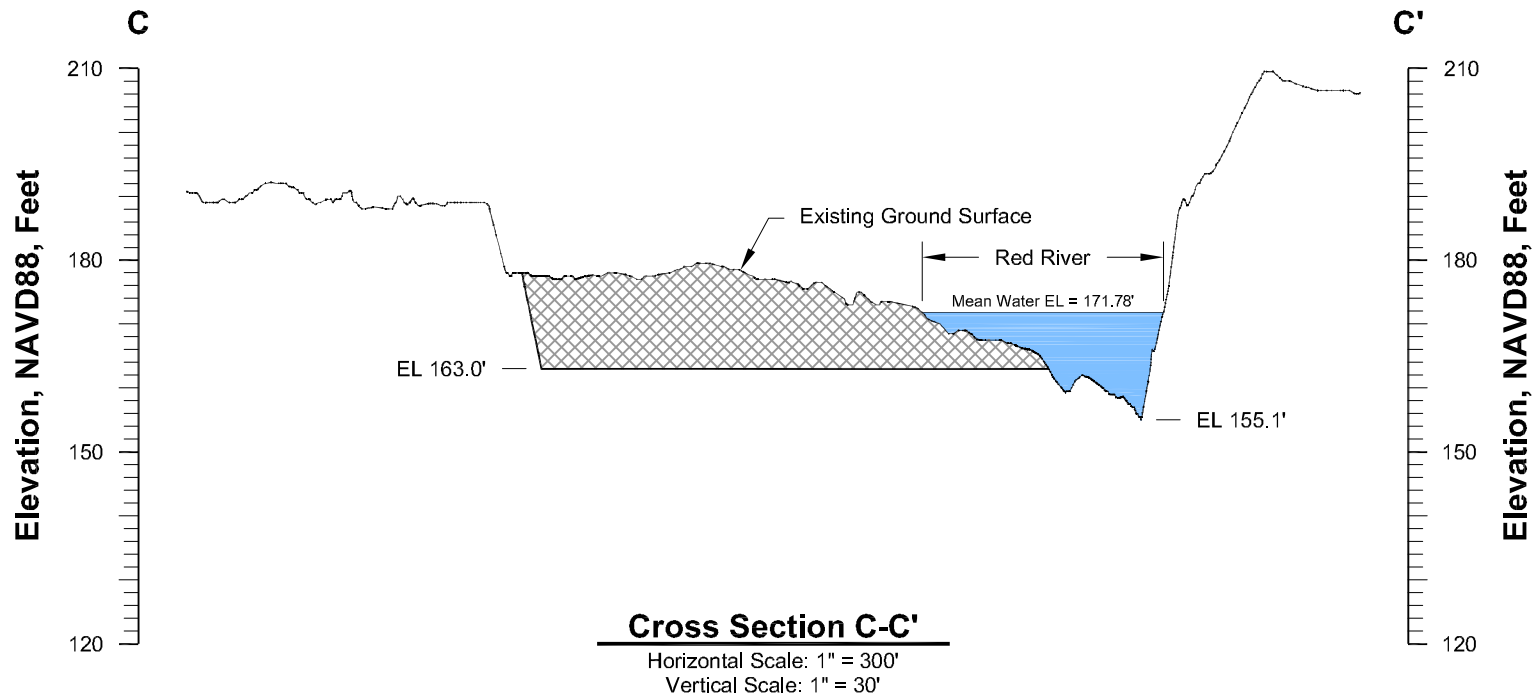
**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



|                |     |                   |
|----------------|-----|-------------------|
| Drawn By       | LMM | 09/19/24          |
| Checked By     | JTL | 09/19/24          |
| Approved By    | CKL | 09/19/24          |
| Project Number |     | 1148-003-001      |
| Drawing Number |     | 1148-003-001-A133 |
| <b>5b</b>      |     | Figure            |





## Legend

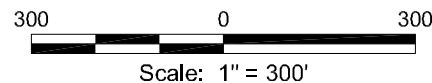
- Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)    No Data Captured Due To Flooding Event
- Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



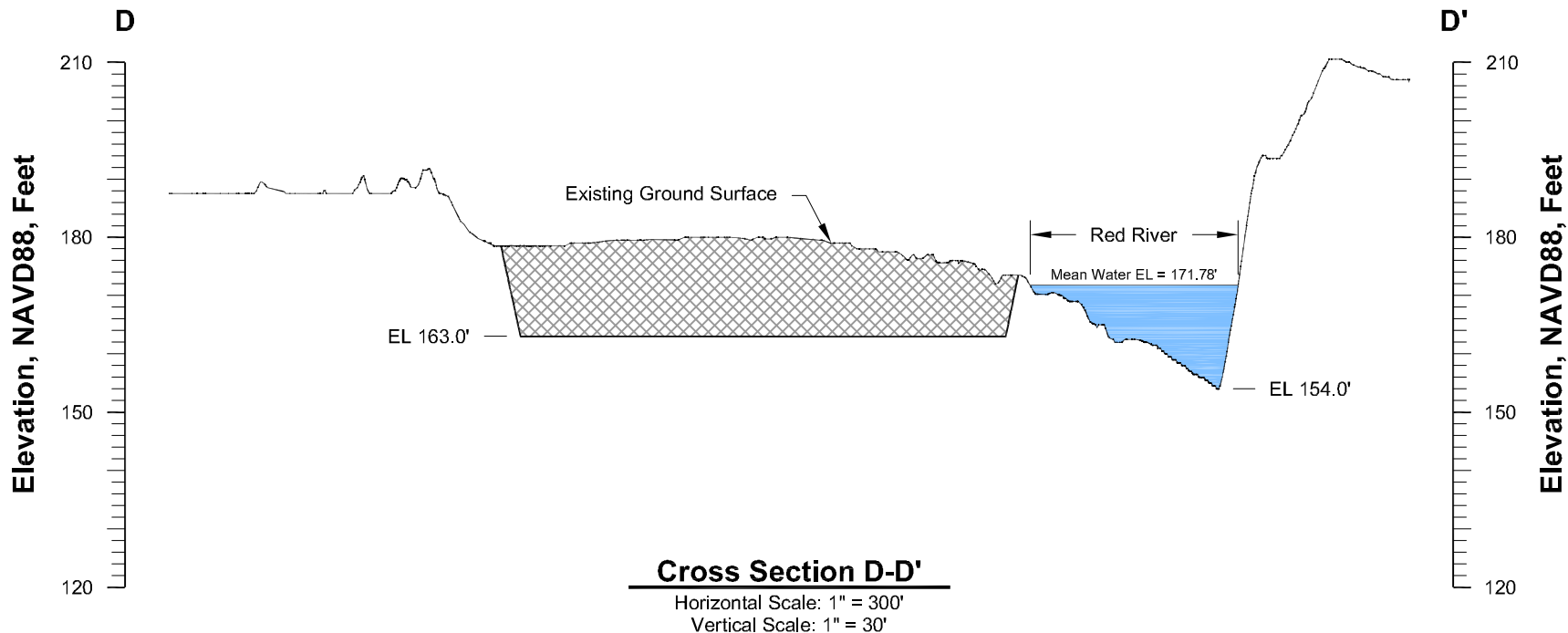
## Cross Section C-C'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>5c</b><br>Figure |
| Drawing Number<br>1148-003-001-A134 |     |                     |



## Legend

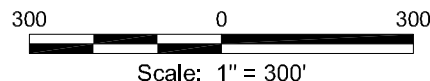
- Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
 No Data Captured Due To Flooding Event  
 Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



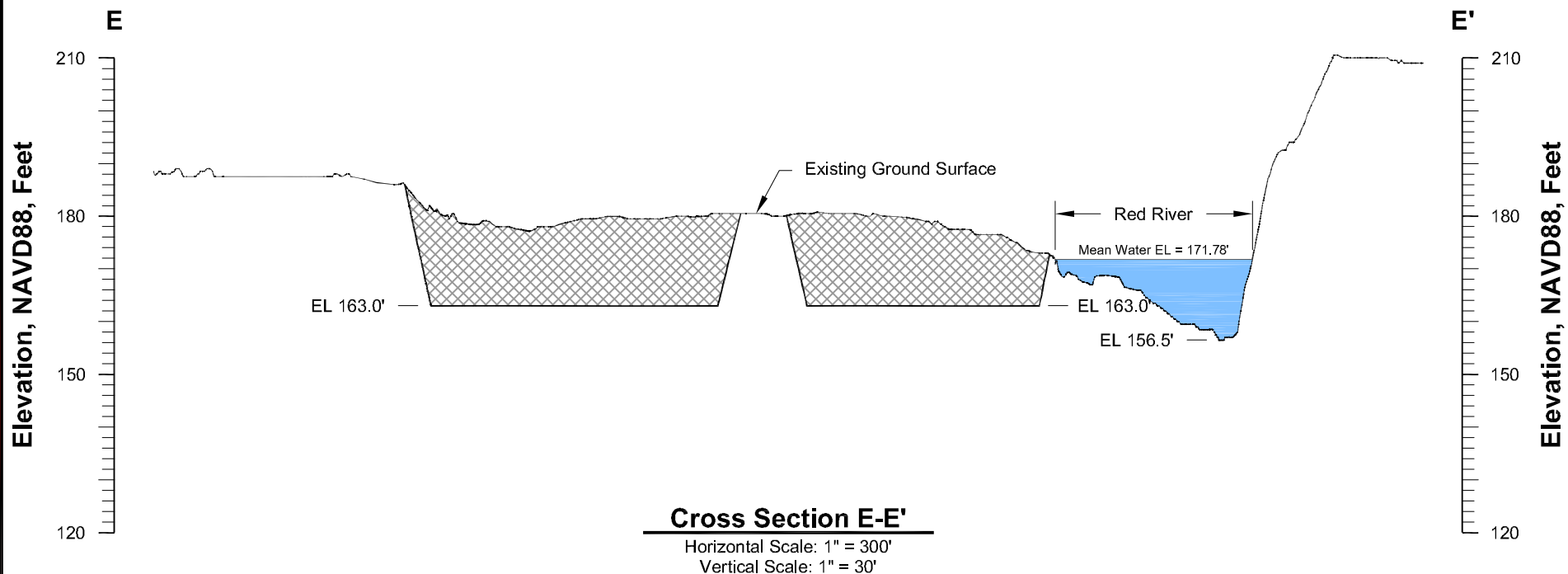
## Cross Section D-D'

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

Performance Proppants, LLC  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>5d</b><br>Figure |
| Drawing Number<br>1148-003-001-A135 |     |                     |



## Legend

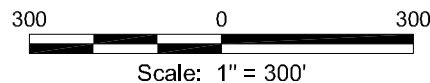
- Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
 No Data Captured Due To Flooding Event  
 Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section E-E'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

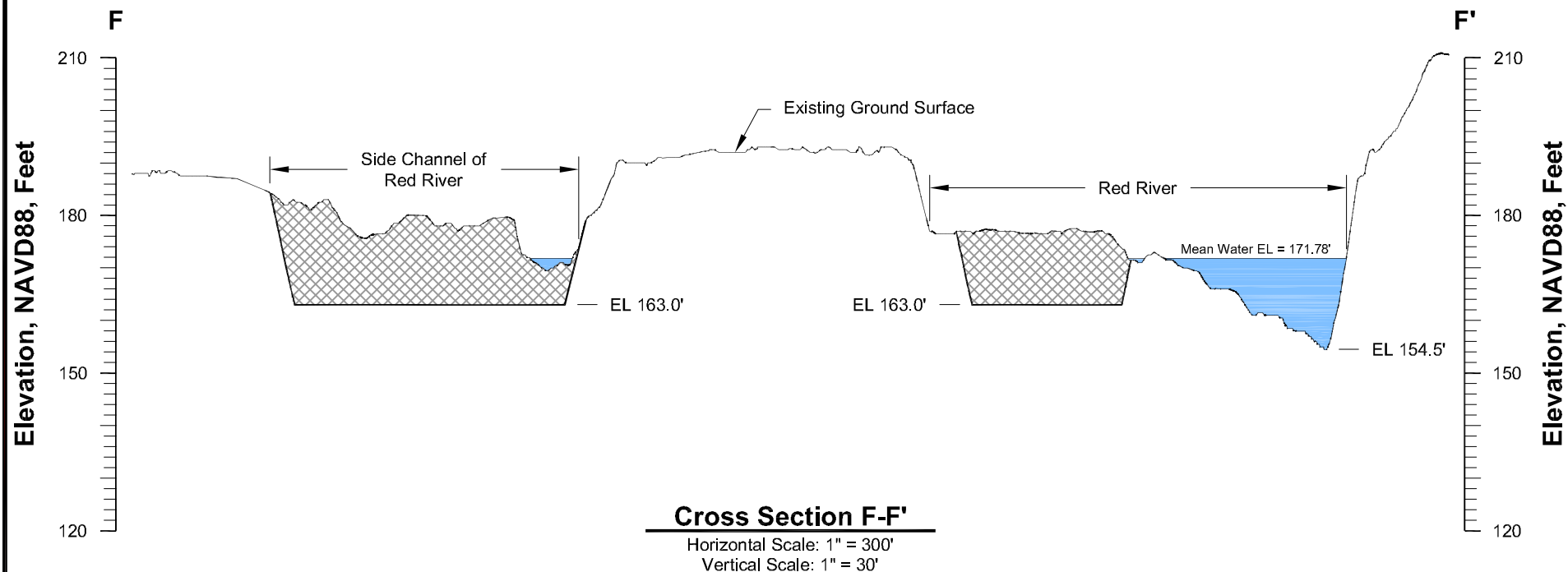
**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging






|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A136 |

**5e**  
Figure



## Legend

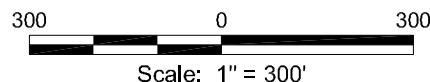
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section F-F'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

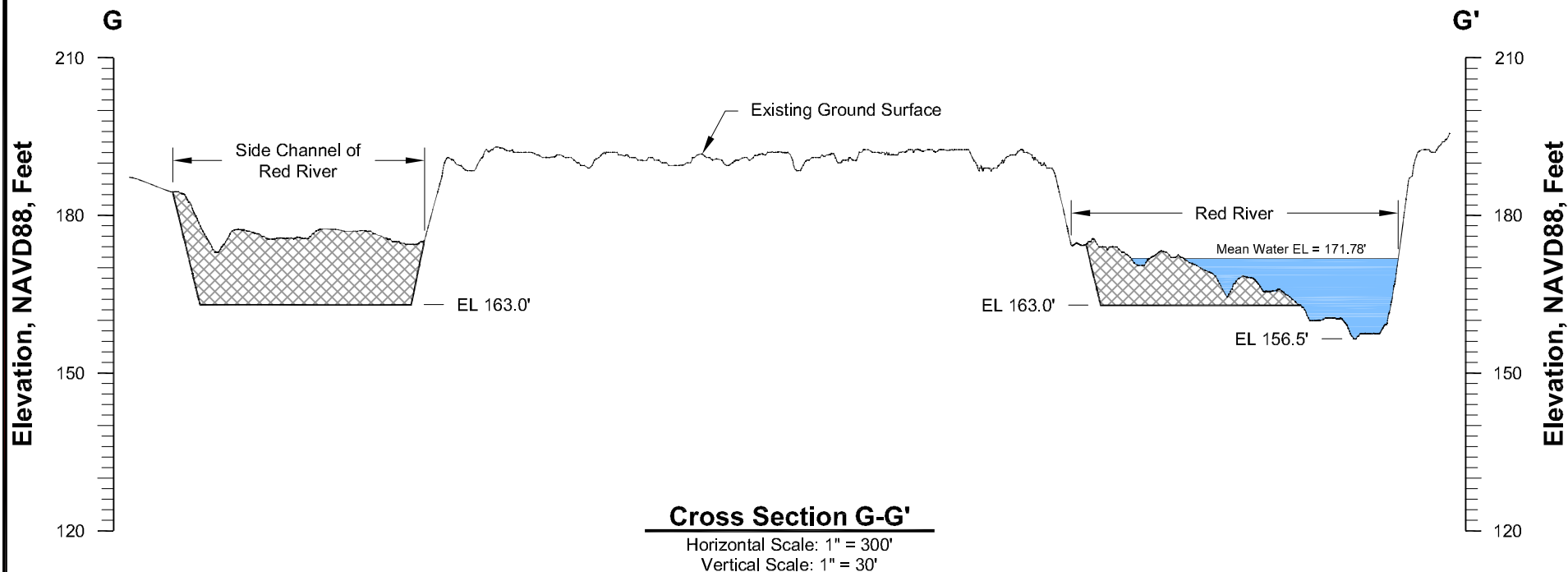
**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging






|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A137 |

**5f**  
Figure



## Legend

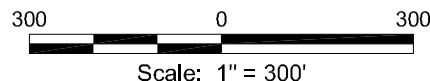
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
 No Data Captured Due To Flooding Event
 Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



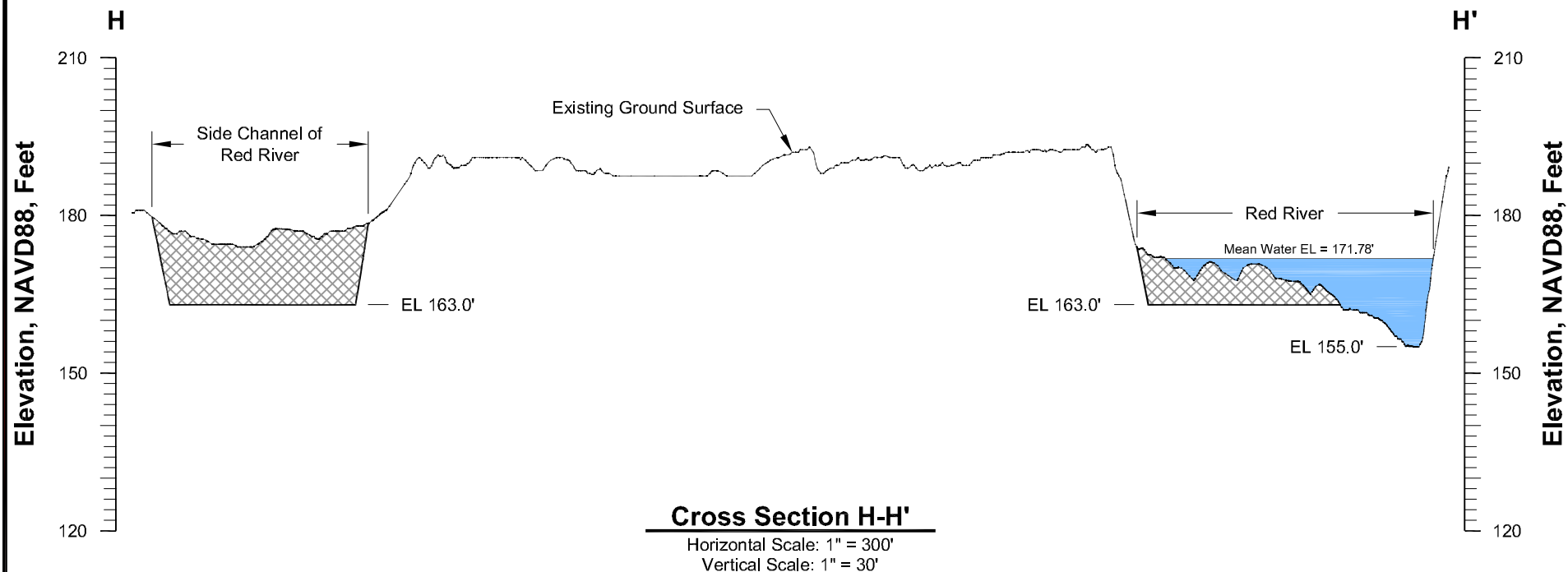
## Cross Section G-G'

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

Performance Proppants, LLC  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>5g</b><br>Figure |
| Drawing Number<br>1148-003-001-A138 |     |                     |



## Legend

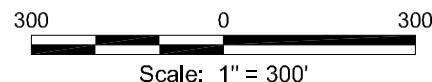
- Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)    No Data Captured Due To Flooding Event
- Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section H-H'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

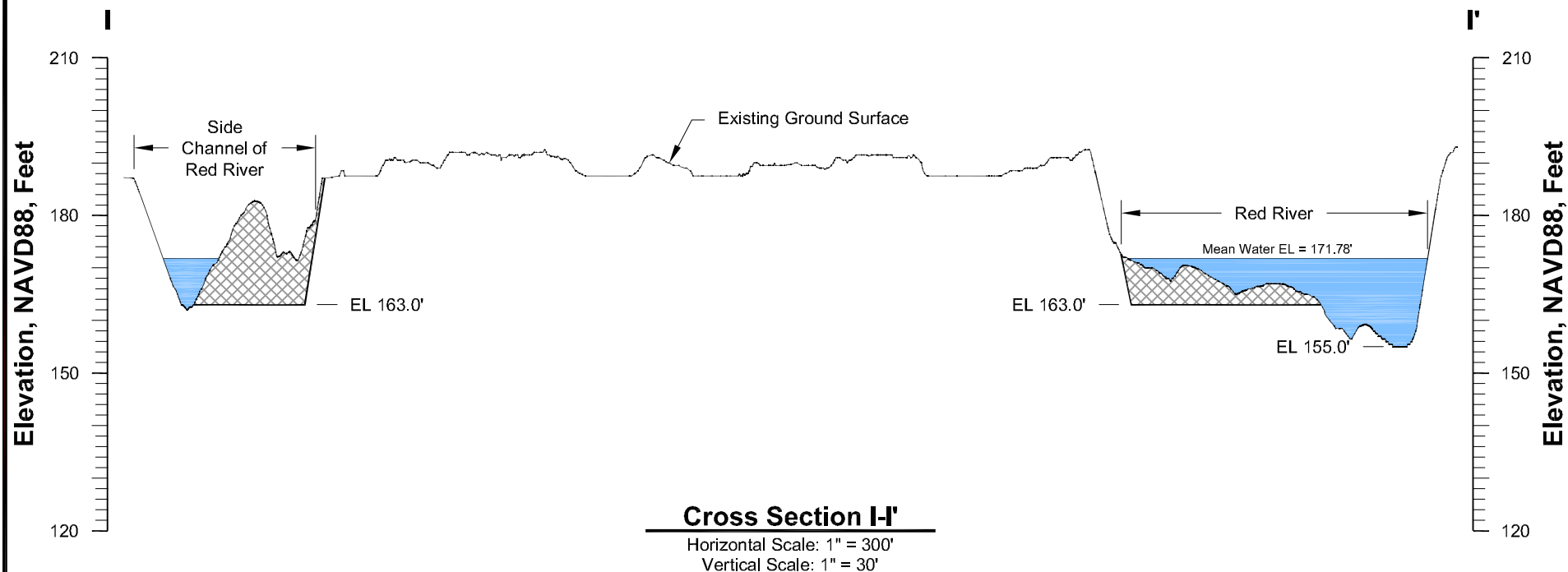
**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging






|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A139 |

**5h**  
Figure



## Legend

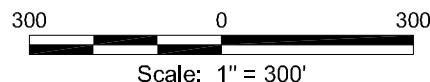
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)     No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section I-I'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

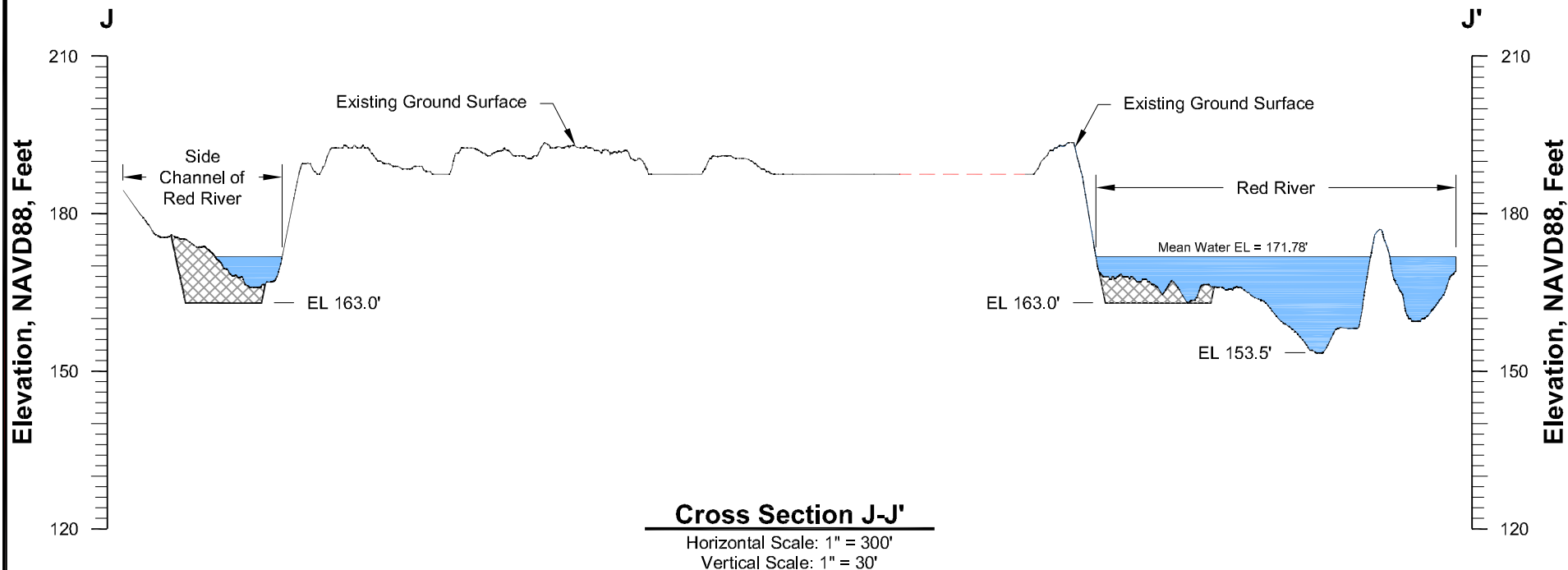
**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A140 |

**5i**  
Figure



## Legend

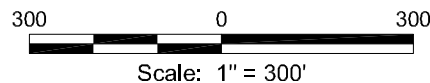
- Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)    No Data Captured Due To Flooding Event
- Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section J-J'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging

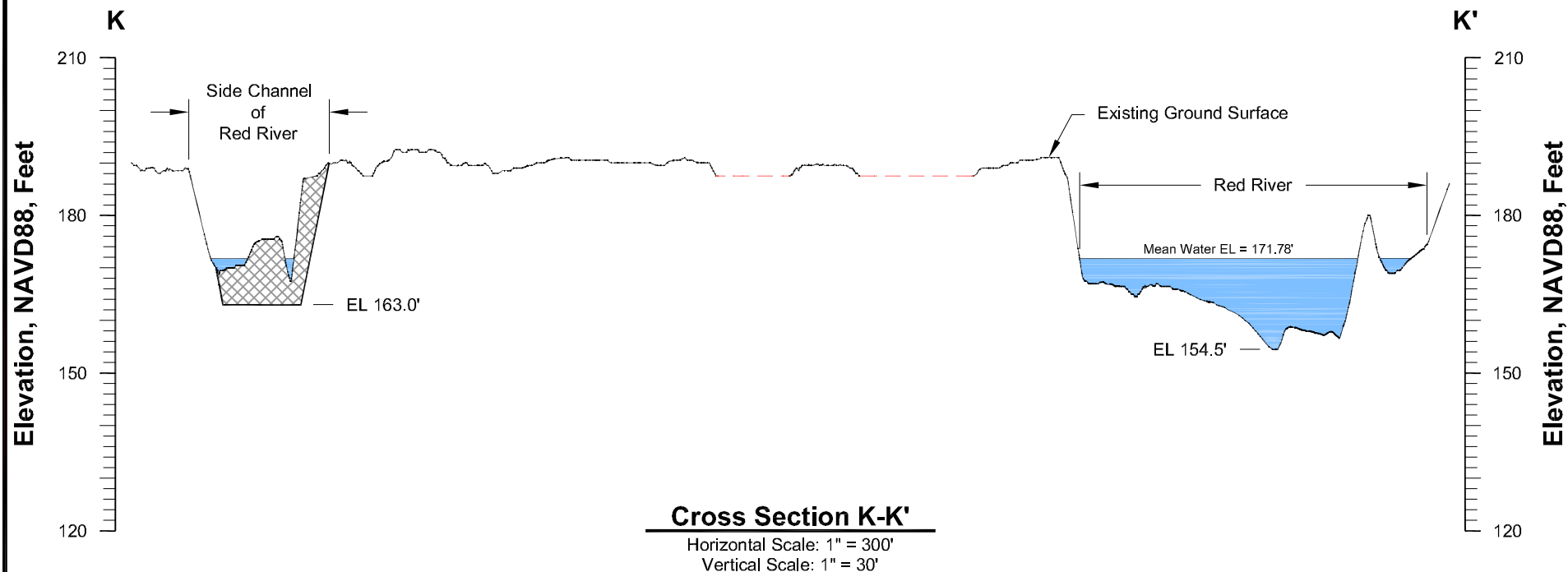


|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |




|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A141 |

**5j**  
Figure





## Legend

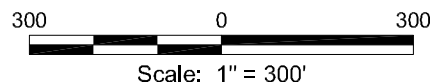
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



## Cross Section K-K'

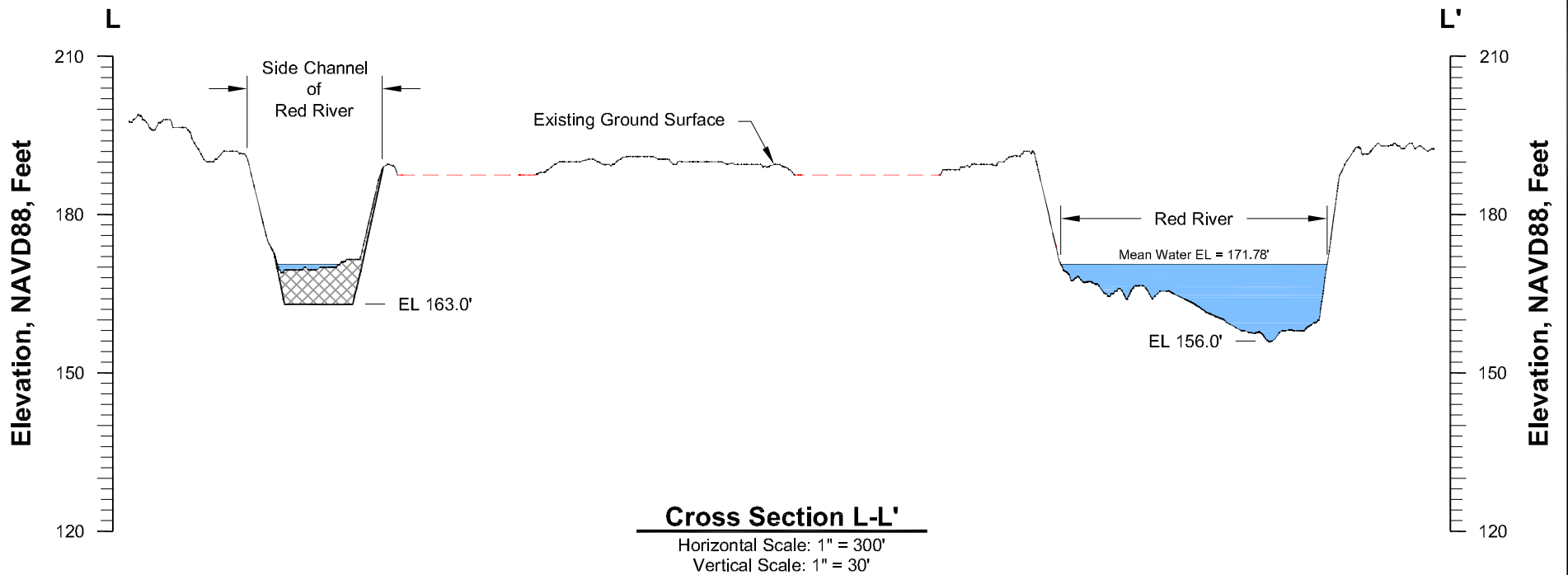
**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging






|                |     |                   |
|----------------|-----|-------------------|
| Drawn By       | LMM | 09/19/24          |
| Checked By     | JTL | 09/19/24          |
| Approved By    | CKL | 09/19/24          |
| Project Number |     | 1148-003-001      |
| Drawing Number |     | 1148-003-001-A142 |

**5k**  
Figure



## Legend

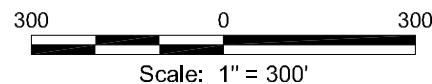
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



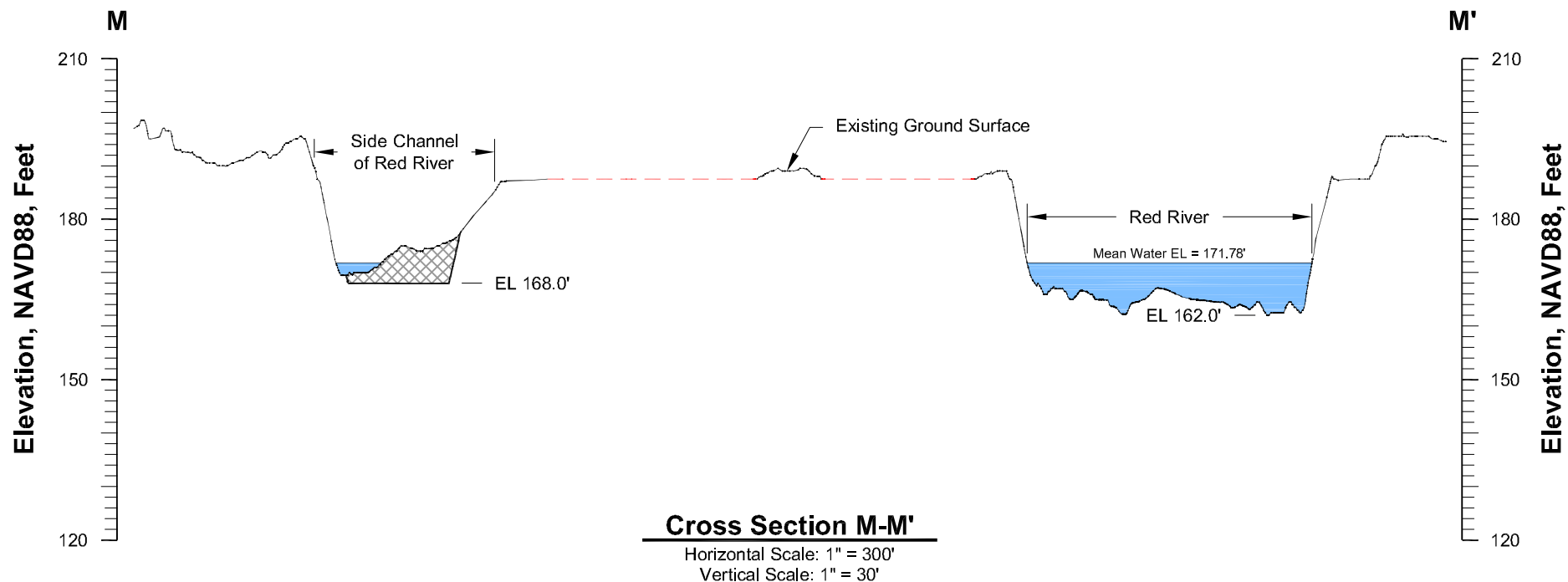
## Cross Section L-L'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas




**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>51</b><br>Figure |
| Drawing Number<br>1148-003-001-A143 |     |                     |



## Legend

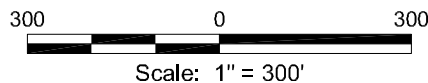
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



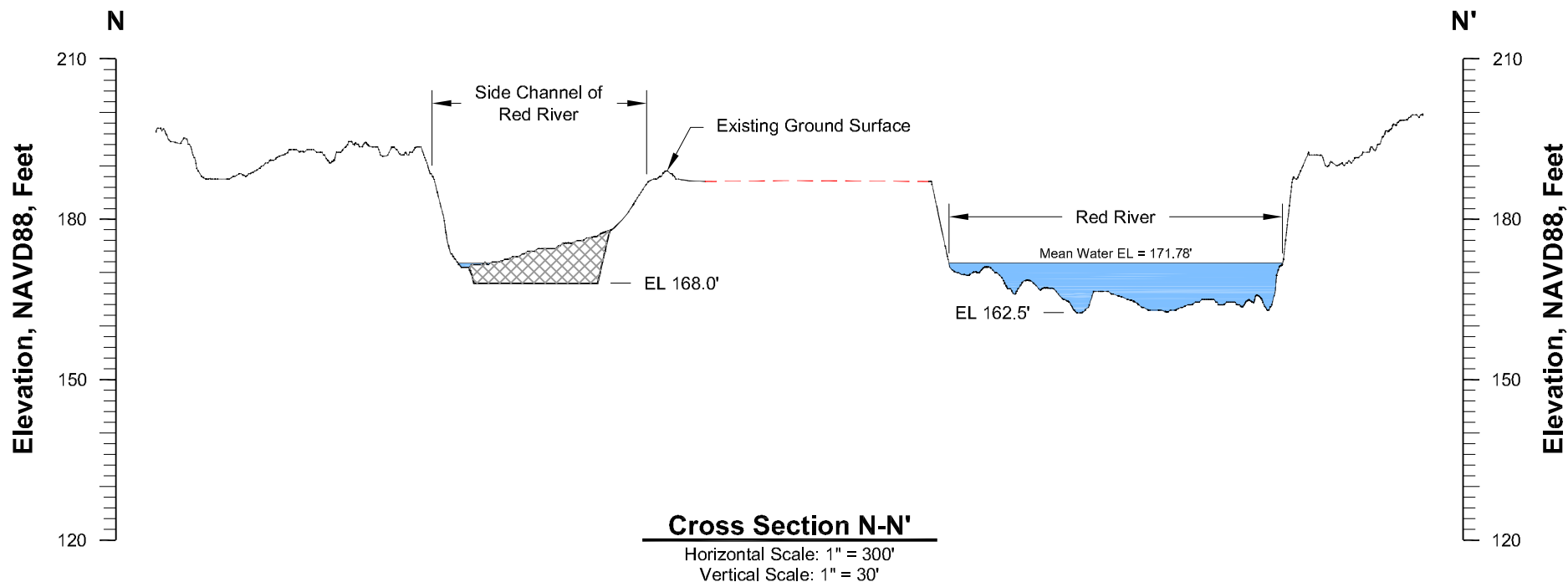
## Cross Section M-M'

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

Performance Proppants, LLC  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>5m</b><br>Figure |
| Drawing Number<br>1148-003-001-A144 |     |                     |



## Legend

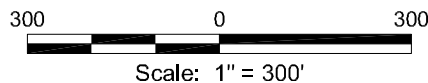
- Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
 No Data Captured Due To Flooding Event  
 Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



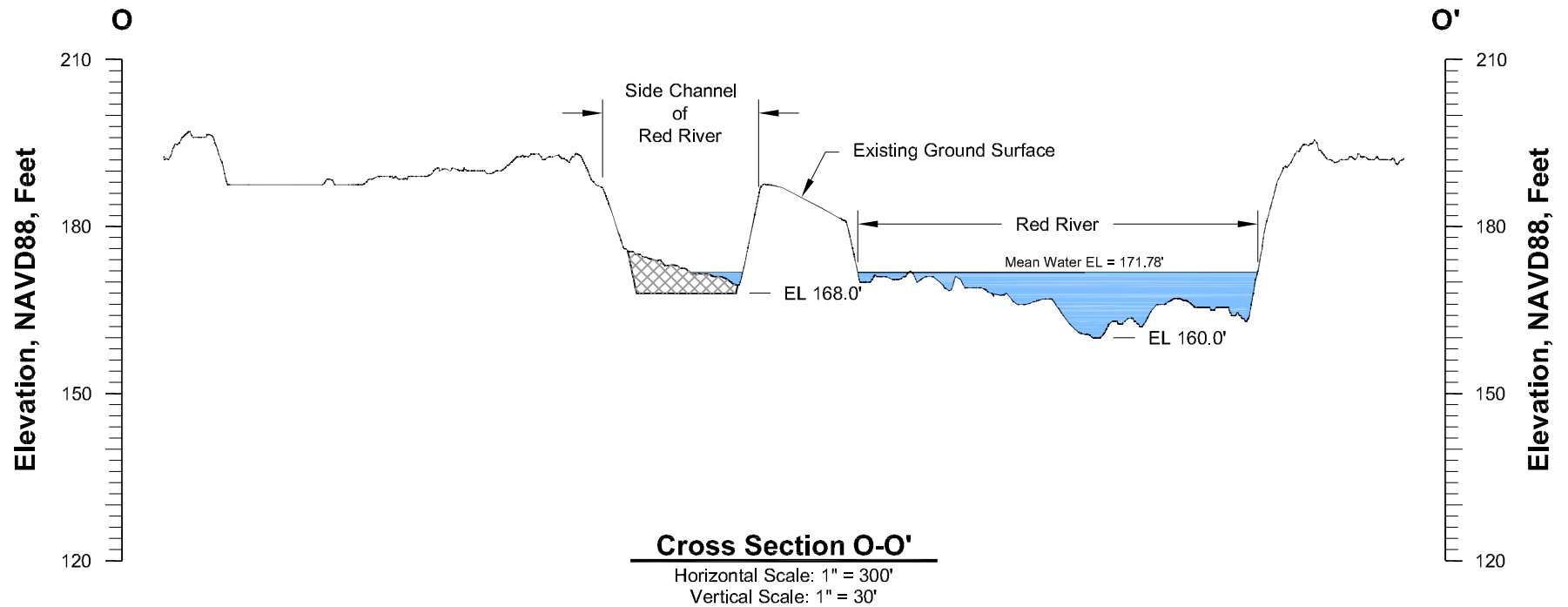
## Cross Section N-N'

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas




Performance Proppants, LLC  
River Ridge Ranch Sand Dredging



|                |     |                   |
|----------------|-----|-------------------|
| Drawn By       | LMM | 09/19/24          |
| Checked By     | JTL | 09/19/24          |
| Approved By    | CKL | 09/19/24          |
| Project Number |     | 1148-003-001      |
| Drawing Number |     | 1148-003-001-A145 |
| <b>5n</b>      |     | Figure            |



## Legend

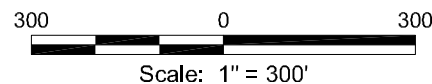
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



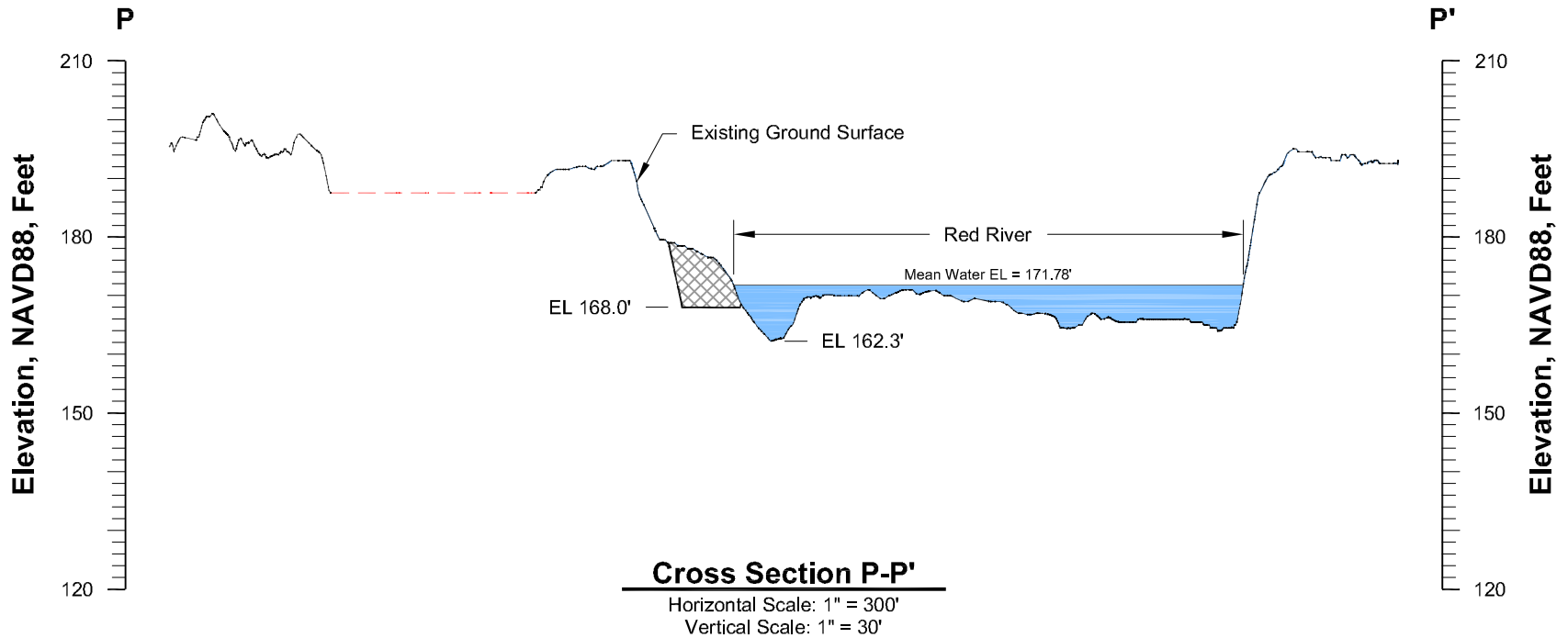
## Cross Section O-O'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas




**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>50</b><br>Figure |
| Drawing Number<br>1148-003-001-A146 |     |                     |



## Legend

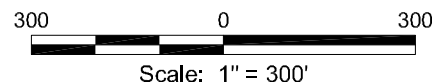
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)
-  No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



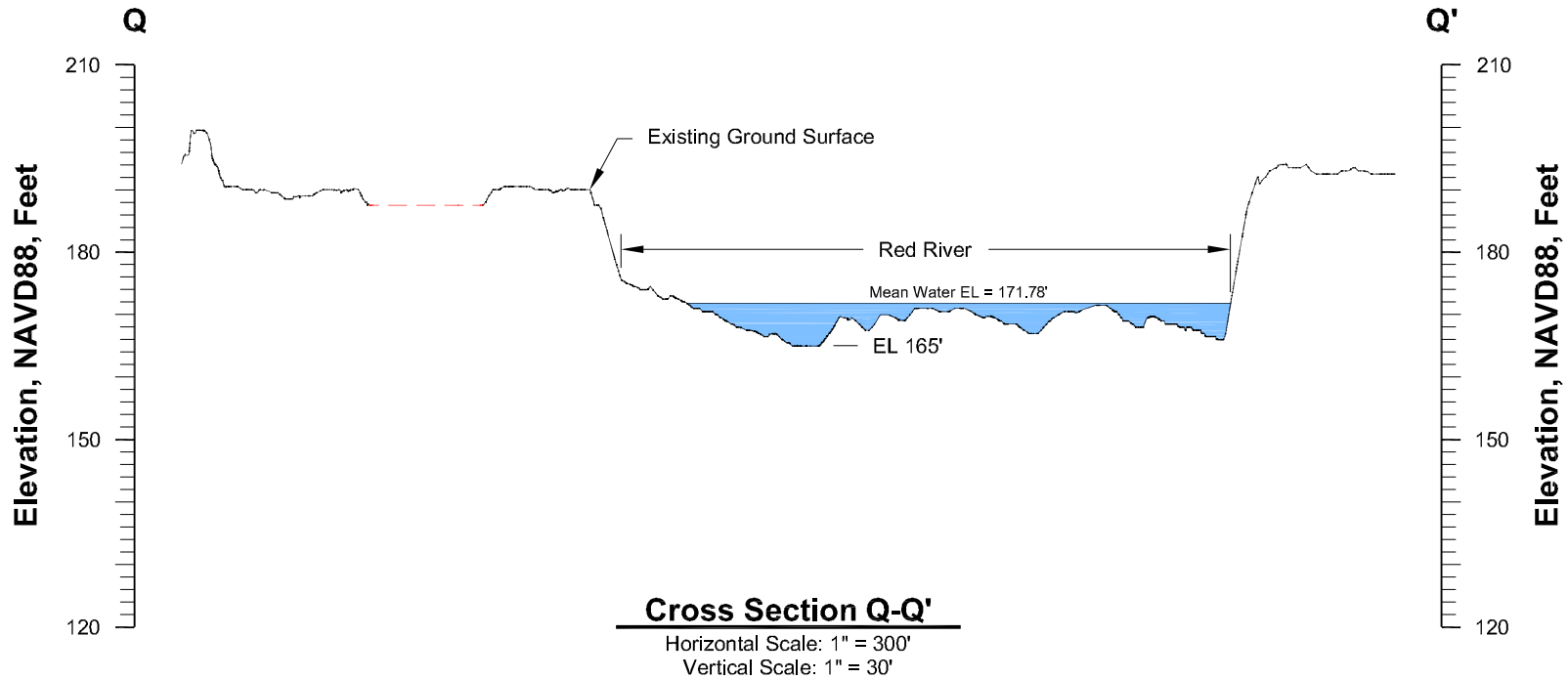
## Cross Section P-P'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas




**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging



|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>5p</b><br>Figure |
| Drawing Number<br>1148-003-001-A147 |     |                     |



## Legend

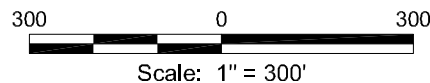
-  Proposed Dredge Excavation Area (~ 1,303.855 yds<sup>3</sup>)     No Data Captured Due To Flooding Event
-  Existing Ground

## Note

Mean river elevation derived from U.S.G.S. Red River at Spring Bank, AR (07344370) gauge.

## Reference

Cross sections generated from survey data collected May 7 and 8, 2024 by Forte and Tablada and client-provided figure packet titled: Exhibits for Alpine River Ridge Dredging, project number: 240206, dated: July 2024, transect nos: 3 and 4.



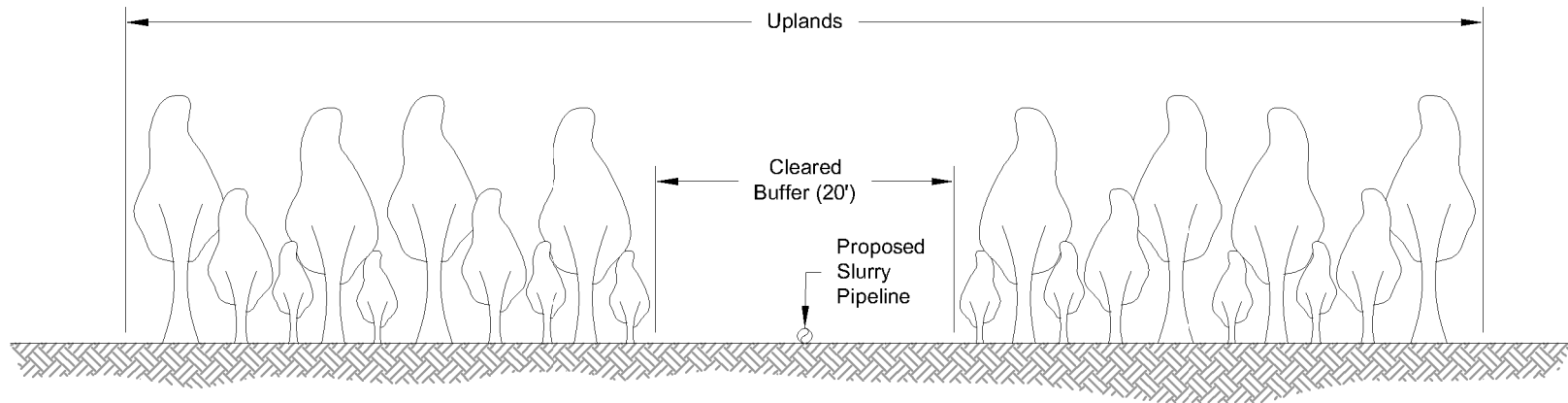
## Cross Section Q-Q'

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

**Performance Proppants, LLC**  
River Ridge Ranch Sand Dredging

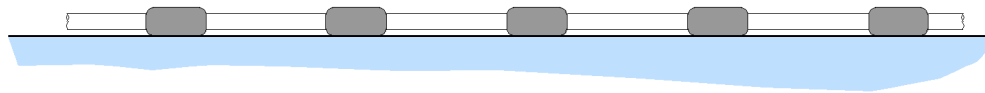


|                                     |     |                     |
|-------------------------------------|-----|---------------------|
| Drawn By                            | LMM | 09/19/24            |
| Checked By                          | JTL | 09/19/24            |
| Approved By                         | CKL | 09/19/24            |
| Project Number<br>1148-003-001      |     | <b>5q</b><br>Figure |
| Drawing Number<br>1148-003-001-A148 |     |                     |



### **Proposed Slurry Pipeline Ground Placement**

Not to Scale



### **Typical Floating Dredge Pipeline**

Not to Scale

### **Notes**

Dredge boat will move within Project Area during high river levels.  
Dredge line will be supported by floating booms. No waterbottom impacts proposed for placement of dredge pipeline.

### **Slurry and Dredge Pipeline Details**

**Section 10/404 Permit Application**  
Lafayette and Miller Counties, Arkansas

### **Performance Proppants, LLC**

River Ridge Ranch Sand Dredging



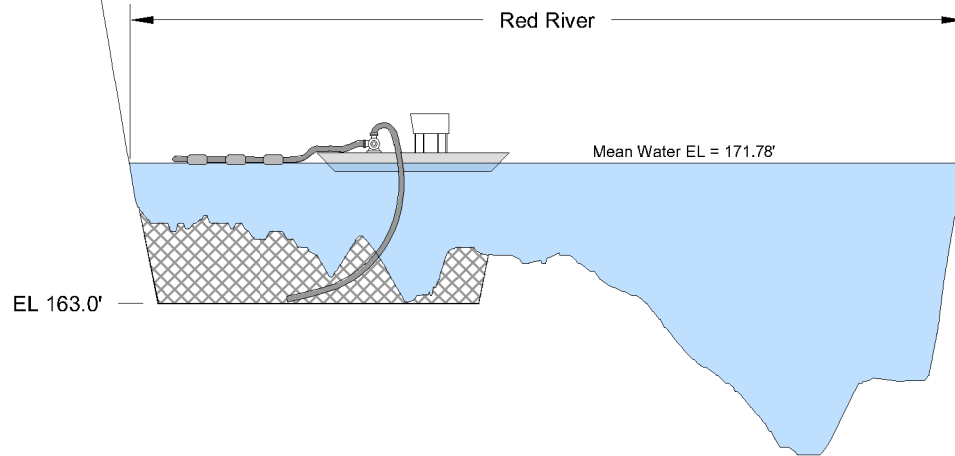
|             |     |          |
|-------------|-----|----------|
| Drawn By    | LMM | 09/19/24 |
| Checked By  | JTL | 09/19/24 |
| Approved By | CKL | 09/19/24 |

|                |                   |
|----------------|-------------------|
| Project Number | 1148-003-001      |
| Drawing Number | 1148-003-001-A150 |

**6**  
Figure



Existing Ground Surface



### Typical Dredge Boat Detail

Not to Scale

### Notes

Dredge boat will move within Project Area during high river levels.  
Dredge line will be supported by floating booms. No waterbottom impacts proposed for placement of dredge pipeline.

### Typical Dredge Boat Detail

Section 10/404 Permit Application  
Lafayette and Miller Counties, Arkansas

Performance Proppants, LLC  
River Ridge Ranch Sand Dredging



|                                     |     |                    |
|-------------------------------------|-----|--------------------|
| Drawn By                            | LMM | 09/19/24           |
| Checked By                          | JTL | 09/19/24           |
| Approved By                         | CKL | 09/19/24           |
| Project Number<br>1148-003-001      |     | <b>7</b><br>Figure |
| Drawing Number<br>1148-003-001-A151 |     |                    |