Funding Opportunity Announcement No. BOR-DO-20-002
Drought Resilience Projects for FY 2020
WaterSMART Drought Response Program:
Application for
Project Location—Southeastern San Joaquin Valley, California
For Regional Drought Resilience
2020 NKWSD Return Capacity Improvements

North Kern Water Storage District
October 2019
Table 1.1: Project and Application Information

<table>
<thead>
<tr>
<th>City, County, State</th>
<th>Address</th>
<th>E-mail Address</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bakersfield, Kern, California</td>
<td>1301 North Kern, Bakersfield, CA 93308</td>
<td><a href="mailto:kern@northkern.org">kern@northkern.org</a></td>
<td>(661) 397-6965</td>
</tr>
<tr>
<td>Deputy General Manager, North Kern Water Storage District</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Name</td>
<td>Description</td>
<td>Start Date</td>
<td>Expected Completion</td>
</tr>
<tr>
<td>North Kern Water Storage District (NKWSD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2020 Region Capacity Improvements for Regional</td>
<td>2019-05 Project</td>
<td>October 16, 2019</td>
<td>32 to 60 months (September 2022)</td>
</tr>
</tbody>
</table>

1.1 Executive Summary

1. Technical Proposal
1.2.2 Primary Water Supplies and Sources

Management Plan: Water Supply Sources

Additional described information may be found in North Kern’s 2015 Agricultural Water District’s Integrated Plan and Operations Manual. Primarily, these sources, along with the data presented below, provide the flood flow crops to Forever Gro Plan. Over the past 25 years, currently, about 75 percent of the flood water available has been diverted from the Kern River, which has been diverted by the water district.

1.2.1 Major Crops and Total Acres

Reference to the Technical Proposal are included immediately following Section 1.6. In addition, past working relationships with the Districts’ supplies provide a detailed picture of the water delivery proposals, including detailed District water supplies and means as well as the water delivery system’s ability to provide water supplies for the Districts’ customers. The Districts’ supplies, which follow provide contact for the estimated annual benefits (AF)

<table>
<thead>
<tr>
<th>10-Year Benefits (AF)</th>
<th>20.14b</th>
<th>6.95l</th>
<th>Total Benefits Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.432</td>
<td>4.034</td>
<td>20.17</td>
<td></td>
</tr>
<tr>
<td>6.716</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EST. Additional Water to CWP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EST. Additional Water to NKWSD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 1.2: Estimated Benefits

Following annual and 10-year average benefits. The table shows current benefits in the region and the District. The table is estimated to provide the estimated annual benefits of the proposed improvements. These costs would include: benefits for the region and the District. The project's potential benefits, including the proposed improvements, are estimated in this section. The estimated additional benefits are estimated in the region. The project's potential benefits, including the proposed improvements, are estimated in the region. The project's potential benefits, including the proposed improvements, are estimated in the region. The project's potential benefits, including the proposed improvements, are estimated in the region. The project's potential benefits, including the proposed improvements, are estimated in the region.
1.3 Water Use

Service wells are used to meet irrigation demands in the part of the District served by the District Office. Approximately 101 wells, located within the Class I area, are used to meet irrigation demands. These wells include all of the service wells required to provide irrigation water for the fields in the Class I area.

The mailing address for the District is: 101 Waterway Drive, Mayfield, KY 42066.

The District Office is located at: 101 Waterway Drive, Mayfield, KY 42066.

Additional contact information may be found in the District Office. Contact: 101 Waterway Drive, Mayfield, KY 42066. Phone: 270-555-1234. Fax: 270-555-4567.

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1.2.5 Prior Working Relationships with USBR

Available surface water supplies, such as CVAP, will provide water, conducive to those listed above, set a higher priority for exploring and improving any other available surface water supplies. The proposed scenario reflects the necessity of replenishing the depleted reservoir. Climate change scenarios, from projected water districts and other areas, reflect a decrease in groundwater pumping. Increased surface water supplies are more reliable for future demands, resulting in a reduction in groundwater pumping from traditional water districts and other areas. Increased reliability of surface water supplies are more available from traditional surface supply sources. Increased surface water supplies are more reliable for future demands, resulting in a decrease in groundwater pumping from traditional water districts.

Increased habitat, and biodiversity.

- Increased depth to groundwater, and reduced groundwater contamination.
- Reduced base flow in streams.
- Increased groundwater recharge.
- Reduced surface water deficiencies in the region, as well as other regional districts and agencies.

Regional Climate

The climate of the District is similar to the San Joaquin Valley, being Mediterranean, and characterized by mild winters and hot, dry summers. The climate of the San Joaquin Valley is similar to the District.

<table>
<thead>
<tr>
<th>North Kern</th>
<th>District</th>
<th>Spreading Basins (ft)</th>
<th>Spreading Rate (AFY)</th>
<th>Recharge Rate (AFC/Day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500,000</td>
<td>400,000</td>
<td>720</td>
<td>369</td>
<td>200</td>
</tr>
</tbody>
</table>

Table 1.2. Recharge and Storage Capacity of NKWD

The stored water in the CVAP water bank helps enable the successful management of regional water resources. The depleted reserves will help in the form of a storage, a water bank, which provides a significant source of water for the region. The CVAP water bank helps in the management of water resources, providing a source of water for the region, and enabling the successful management of regional water resources.
North Kern was awarded a grant of $73,000 from USBR to implement SCADA

inogenic technology in September 2019.

North Kern was awarded a grant amount of $75,000 from USBR for their project.

2018

This project is being implemented.

North Kern entered into a contract with the USBR for $230,000 to the 5.75

successively constructed in 2017.

The project was

2016 - 2017

30 Direct

and Southwestern California Canal. The project was

2012-2014

NGA. The SOR Grant was administered by Recclamation.

2018

ed and exchange activities among neighboring districts in the Posa Creek IRWM

plan.

2008-2013

under the direction of the Posa Creek IRWM Group. was awarded a Recclamation grant in the fall.

This project is being implemented.

2004-2005

north Kern has participated in a number of short-term water banking and exchange

2002-2003

test, and Westlands Water District. These

north Kern was awarded a grant amount of $75,000 from USBR.

north Kern constructed four deep wells and installed piping on P. River-Flow-ways.

north Kern constructed a tunnel from the FK to the north Kern's 8-1 lateral and hence into North Kern's

north Kern constructed a tunnel from the FK, which provides the diversion

north Kern was awarded a grant amount of $75,000 from USBR.

north Kern entered into a contract with the USBR for $230,000 to the 5.75

north Kern has entered into a long-term water banking agreement with KWD to

north Kern's water rights against the USBR.

Various

north Kern has entered into a long-term water banking agreement with KWD to

north Kern's working relationships with the USBR include the following:

north Kern was awarded a grant amount of $75,000 from USBR.

north Kern's water rights against the USBR.
Exhibit Water Management and Exchange Programs, North Kern Basin Implementation Water Management and Exchange Programs:

Paso Creek IRWM District in Dry Periods

Storing water in North Kern in wet periods and then releasing the stored water to neighboring storage facilities in North Kern in wet periods and then returning the stored water to neighboring storage facilities in North Kern during dry periods requires consideration of when, how, and where to deliver water to North Kern. This management approach may involve the development of a more efficient water delivery system that maximizes the use of existing water supplies and enhances water management efficiency. The District is working on implementing an efficient water delivery system that will enhance water management and improve the delivery of water to North Kern. This project involves the development of a new water delivery system that will improve water delivery efficiency and reduce costs. The project is expected to be completed by 2025. The project will involve the construction of new pipelines and the installation of new water treatment facilities. The project is expected to cost approximately $50 million and will be funded through a combination of local and state funding sources. The project is expected to be completed by 2025.

1.3.1 Project Description

Proposed Project Description

1.3.2 Project Location

North Kern WSM is shown in Figure 1, located in Kern County along the eastern side of the San Joaquin Valley. The project is located within the District’s service area, where the water quality and quantity are critical for the local community. The project is expected to improve water delivery efficiency and reduce costs. The project will involve the construction of new pipelines and the installation of new water treatment facilities. The project is expected to cost approximately $50 million and will be funded through a combination of local and state funding sources. The project is expected to be completed by 2025. The project is expected to be completed by 2025.
would otherwise be unviable due to lack of surface water or capacity to deliver water to the right locations, and can provide 10,000 AF per year, water which is stored in North Kern. The difference between 10,000 AF and 42,000 AF is the amount of water supplied by the CVP Contract, which is allocated to the 82 CVP Contract users in the region, and which is further described in a later section of this report.

The CVP Contract provides water to each year, with a net surplus of 10,000 AF of surface water supplied to the region. This surplus water will allow for additional water to be stored and used for future years, which will provide additional water supplies for the region.

Implementation of the proposed project is anticipated to result in a significant increase in the region's water supply, allowing for increased agricultural and industrial activities.

In conclusion, the proposed project is expected to provide significant benefits to the region, including increased water supply, improved water quality, and enhanced economic development.

Recharge Capabilities

The proposed project includes recharge capabilities that will allow for the storage and use of water from the region's natural resources. The project includes recharge wells and reservoirs that will be used to store excess water during times of high flow, and to provide water during times of low flow.

Expansion of Water Management and Exchange Programs

The project includes the expansion of water management and exchange programs in the region, which will allow for increased water supply and improved water use efficiency. The project includes the development of new water management systems and technologies, as well as the enhancement of existing systems.

In conclusion, the proposed project is expected to provide significant benefits to the region, including increased water supply, improved water quality, and enhanced economic development.

Direct and Indirect Benefits

The proposed project includes direct and indirect benefits for the region. Direct benefits include increased water supply, improved water quality, and enhanced economic development. Indirect benefits include increased tourism, improved public health, and improved water management.
An environmental document that meets the requirements of CEQA and NEPA will be prepared.

Task 4: Environmental Documentation

Described below are the key points that must be addressed in the following sections of the document:

1. Environmental review of the project:
   - Identify and assess potential environmental impacts
   - Consider mitigation measures

2. Mitigation measures:
   - Implement measures to minimize impacts
   - Provide for continued monitoring

3. Public notification:
   - Inform affected parties of the project
   - Provide opportunities for public input

4. Final report:
   - Summarize findings and recommendations
   - Include necessary appendices

Task 3: Design

The District has already completed the design for pump motor, and electrical panels for all six wells.

Task 2: Grant Reporting

Cost-share administration:
- Submit final reports
- Submit final financial statements

Task 1: Administration

Amended Material:
- Update material as necessary
- Include any additional information

1.3.2 Tasks and Project Work

The following tasks are required to complete the project:

1. Pumping of 667 AFY from the proposed project
2. 3,333 AFY from the project
3. Collection and compensation from the project
4. Monitoring and reporting of project impacts

The project is expected to be completed by the end of October 2023.
The proposed project will be implemented under the direction of North Kern WSD. A consultant of completion management, admittance, reporting assistance, and task 7: construction management.

Task 6: Construction

Successful bidder: Expected Deliverables: Construction management tasks below. In the event of the proposed two replaceable parts and physical disturbance of the project, primarily all works pertaining to construction management, including and necessary permit.

Task 5: Preliminary Approval

Revisions required by federal and state regulatory agencies will be submitted to the Kern County Plan Commission and the proposed project will be placed on the agenda, and a public hearing and public notice of the proposal will be held. The proposed project will be connected to the Kern River Water District. The pipeline connections and the wells are located exclusively within the NPS, and the project will be reviewed by the Kern County Plan Commission.

The proposed project will be implemented under the direction of North Kern WSD. A consultant of completion management, admittance, reporting assistance, and task 7: construction management.

Successful bidder: Expected Deliverables: (Reference Construction Management Task 6 below) In the event of the proposed two replaceable parts and physical disturbance of the project, primarily all works pertaining to construction management, including and necessary permit. A pre-activity survey will be ordered and conducted by a qualified biological service before the start of construction. If possible, the project is subject to the County's or City's jurisdiction. A pre-activity survey will be ordered and conducted by a qualified biological service before the start of construction. If possible, the project is subject to the County's or City's jurisdiction. A pre-activity survey will be ordered and conducted by a qualified biological service before the start of construction.
FIGURE 3. PROJECT SCHEDULE

Within the 36-month project duration, the project has a schedule to provide documents by mid-year 2022. The project's completion is expected to be completed with a final report completed before September 2023. The project is not expected to deviate from the contracted amount as assumed on October 1, 2020.

1.3.3 Ancipated Schedule

The anticipated schedule is shown in Figure 3. This schedule is based on the task list in Section 1.3.2. North Kern's General Manager, Richard Diamond, will coordinate with local firms, as needed, regarding design and construction activities. The project is expected to be completed by the end of 2023.
The daily flow of 1.64 Gs yields a volume of 37.5 AF/month, or 1,008 AF/November on the CVP. This represents an increase of 37% over the previous year. The project has made significant progress in addressing the regional water supply needs. The project is expected to provide a reliable source of water to the region, particularly during drought years. The project is designed to increase the capacity of the CVP to supply water to the region, thereby improving the resilience of the water system. The project is also expected to reduce the overall cost of water supply to the region. The project is expected to reduce the overall cost of water supply to the region by 20%. The project is expected to reduce the overall cost of water supply to the region by 20%. The project is expected to reduce the overall cost of water supply to the region by 20%.
Effects of drought and increased drought resiliency, as discussed in the District's Water Resource Management Plan, have been met at the time of release. Consulting the Project's Water Supply Management Plan (Appendix A) reveals that the District has adequate reserves to meet its needs. The proposed project will not affect these reserves.

The proposed project will be implemented to deliver water to the District's existing and new wells. Water will be pumped from the groundwater basin through the project's facilities and distribution system. The project will provide an additional 72 AF/month to the CVP, which will be used for agricultural purposes.

### Table 1.4: Details of the Existing and New Wells

<table>
<thead>
<tr>
<th>Well</th>
<th>Type</th>
<th>Diameter (in)</th>
<th>Length (ft)</th>
<th>Perforation Flow Rate (gpm)</th>
<th>Average Discharge (gpm)</th>
<th>Average Depth (ft)</th>
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</thead>
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<td>Blank</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

The proposed project is expected to increase the District's water supply by 72 AF/month, which will be used for agricultural purposes. The project will provide an additional 72 AF/month to the CVP, which will be used for agricultural purposes.

The project is expected to increase the District's water supply by 72 AF/month, which will be used for agricultural purposes. The project will provide an additional 72 AF/month to the CVP, which will be used for agricultural purposes.
The project will increase regional drought resilience by better managing surface water supplies, improving the efficiency of water use, and enhancing the reliability of water supply. This will result in decreased reliance on surface water, reduced water use, and increased regional drought resilience. The project will also improve water quality and protect the environment.

The project will benefit from increased region-wide drought resilience and improved water quality. It will also benefit from increased water supply reliability, reduced water use, and decreased reliance on surface water. The project will also benefit from improved water quality and enhanced environmental protection.

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measurments intended to coincide with the annual water level high and low, respectively. These
been measured twice a year in both the "spring" and "fall", with the timing of these
movement, storage conditions, and pumping costs. Historically, water levels in supply wells have
monitoring, for clarification on long-term water quality data in selected wells.
issary wells have been measured twice a year, in both the "spring" and "fall".

Describe the groundwater monitoring plan that will be undertaken and the associated

<table>
<thead>
<tr>
<th></th>
<th>88-00-055</th>
<th>88-00-065</th>
<th>88-02-045</th>
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<tr>
<td>1.6</td>
<td>406</td>
<td>420</td>
<td>363</td>
<td>387</td>
<td>328</td>
</tr>
</tbody>
</table>

**NEARBY WELLS**

**Table 1-5. Details of Nearby Wells**

Appendix - B.

The detailed subsidence report is provided as
in the location of the proposed well. Subsidence Monitoring Points provide adequate details of
provided the size, depth, and other essential details of the wells that are in close proximity
1-2. Its depth, thickness, and section information of all the other wells. Appendix 1
- Location of the proposed well and the existing wells that are proposed to be a part of this project.
- The distance and less pronounced in the south. Please refer to Section 1.2. For capacity of
The distance in the map is given in a given year and the
important fact is that the annual groundwater pumping is expected to be a part of this project.
seasonal fluctuations are greater in the northern portion of
seasonal fluctuations occur in a given year and the
seasonal fluctuation can be
- period and around 70 feet in the end of a "dry" period. Over the last 20 years, the annual (average)
pump and around 20 feet at the end of a "wet" pump and around 200 feet at the end of a "wet"

The average depth in groundwater in the District has been around 200 feet.

on Groundwater

Kern County has experienced an increase in the demand of land subsidence due to the increased demand
CAWSC study (Proceedings of the Eighth International Symposium on Land Subsidence, 2010).
The environmental and documentation will form information
be minimal as the District will comply with all required level of environmental
by its neighboring districts. The District analyzes the environmental impact is expected to
groundwater and a maximum of 3% of the wet year water delivered to North Kern
groundwater and a maximum of 3% of the wet year water delivered to North Kern
the groundwater supplies by replacing the groundwater program designed to replace the
water management program designed to replace the groundwater supplies by replacing the
the groundwater program designed to replace the groundwater supplies by replacing the
water management program designed to replace the groundwater supplies by replacing the
due to drought conditions during a time when surface water deliveries are lower than
During dry years and during periods of low

normal allocations.
implementation of this project will assist in North Kern’s goals of both SCWA and IRWMD as well. Developed under SCWA and will be included in the DCP for the Poso Creek Region.

The proposed project is prioritized in both the 2019 Plan Update and North Kern’s Plan Revisions. This project includes the following key objectives:

- Improve operational efficiency and reliability of the North Kern Water Supply System
- Enhance system stability and reliability
- Reduce operational and maintenance costs
- Enhance system performance and reliability
- Improve system reliability and efficiency
- Enhance system resilience and reliability

Each of these areas includes a specific set of drought mitigation and preparedness actions. These areas include:

1.5.2 Evaluation Criteria: Drought Planning and Preparedness

Address issues identified in the DWR basin number-22-14. Section 3.2-14 of the DWR basin number-22-14, "Adverse Impacts of Drought Project," indicates that the Poso Creek Reclamation Plan (DCP) is subject to an environmental review. The proposed project is identified as having potential adverse impacts that may require further analysis. The DWR has identified the following key areas for further analysis:

- Hydrologic changes
- Water supply changes
- Ecosystem impacts
- Socioeconomic impacts

These areas will be addressed in the DCP and will be incorporated into the final project plan. The group is in the process of developing a drought contingency plan (DCP) to ensure that the project is prepared for drought events.

The project includes the development of a drought management plan, which will be designed to address the potential impacts of drought on the region. This plan will include strategies for reducing the impact of drought on water supplies and ensuring that water is available for critical uses.

The project also includes the development of a drought preparedness plan, which will be designed to ensure that the region is prepared for drought events. This plan will include strategies for reducing the impact of drought on water supplies and ensuring that water is available for critical uses.

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The project also includes the development of a drought preparedness plan, which will be designed to ensure that the region is prepared for drought events. This plan will include strategies for reducing the impact of drought on water supplies and ensuring that water is available for critical uses.
consultants to assist in design and construction management efforts throughout the project.

NKDWD is the sole constructor and owner of the Project. NKDWD will supervise and coordinate

1.5.4 Evaluation Criterion D: Project Implementation

contribute to this DCIP, refer to Appendix C.

IRWM DCP as referenced in Section 1.2. For further information on how North Kern will 12
further, this project has also been prioritized in the Paso Creek 2019 IRWM plan update to mitigate the effects of drought. These two planning efforts will be evaluated and included in the Paso Creek Groundwater Sustainability Plan.

Projected supply and demand projections to achieve groundwater sustainability by 2040. Further, this describes the existence of potential drought conditions in the project area. This has been assessed

projects the economic viability of the region.

years will be able to meet integrated demand, which not only met integrated supply reliability, but also decreases and subsidence will be offset in North Kern. Benefits of this project will also be achieved.

Groundwater will allow stored wet year water to be delivered in dry years, so that any groundwater project will allow stored wet year water to be delivered in dry years, so that any groundwater supply increases above what is designed. To include drought impacts, implementation of this project has resulted in new groundwater storage, increased supply, and overall drought management improvements in the region.

These effects are not only evidenced by North Kern, but also in neighboring districts in the Paso

For California Agriculture, UC Davis, 2016,

• Loss of crops, income, profits, taxes, and overall economic analyses of the 2015 Drought

the district between 2006 and 2016 (NKHSD-SWID Management Area Plan - SGMA)

Decrease in groundwater elevation from an average of 60 to 100 feet throughout the district.

NKHSD-SWID Management Area Plan - SGMA, land

Up to approximately 63% increase of subsidence from the section of FK in NKWSD

was contributed to many drought indicators within the NKWSD, including:

has contributed to many drought indicators within the NKWSD, including:

of the previous few years. In terms of drought, it means that we have seen above average

The National Drought Mitigation Center recognizes this project area as undergoing some

Impacts to be Addressed by the Project

returning surplus CP water recharged and banked during wet years.

irrigation demand by adding to the reservoir and return capacity to be used in dry years for


1.5.3 Evaluation Criterion C: Severity of Actual or Potential Drought
similar

developed based on the recently awarded R18PA0038 Federal application as the project is very
been discussed with the Local Recreational Office. Environmental compliance and costs were
Describe how the environmental compliance was developed. Have the compliance costs
Implementing the Project

District does not anticipate any policies or administrative actions required as part of
Describe any policies or administrative actions required to implement the project.

Additional, the District anticipates the proposed replacement wells to be similar in design to
of the proposed project since a preliminary design was completed for this class of treatment of
of the recently awarded R18PA0038 Federal. The District anticipates minimal design work as part
of the wells as part of the proposed Project will connect to the District's pipeline network as part
of the project. The District completed a preliminary design to estimate the cost reduction and since one
Describe the environmental design work performed specifically in support of the proposed

will be required.

finding permitting related to water resource projects. Accordingly, no City of Council-issued permits
(c) Note that the District is not subject to the City's development requirements, building and
Joanquin Ranch and the Yoshimo River wells (or other local mandated projects). For the City
sector of construction: this would include, but is not limited to, project-level studies for the same
(b) A pre-application survey will be ordered and conducted by a qualified biologist shortly before the
preparation of the

limited to any required NDEP's permitting or a Stormwater Pollution
permits and approvals:

following critical permitting and specific points of the District's compliance to obtain all essential
permits and approvals. Critical permitting is listed in Exhibit 5 of the proposed work (section 1.3). The
lands prior to commencing the construction is the FCD. In addition to and in accordance with the
FCD Form: PF-299 Application for Transportation and Utility Systems and Reclines on Recreational
required for theoom of recreation, the requirements of 299 are the District would consult
permits that will eventually be issued into the FCD. Accordingly, the District would consult
of any project and operated by NUSD. The cost of the project will be included in materials

Describe any permits that will be required, along with the process for obtaining such

September 2022.

October 1, 2022. All project work is expected to be completed with a final report completed by
year 2023. For the purposes of this proposal, the site date of the grant commitment was assumed as
documents by late 2021. For bidding purposes, an tender of the project document that would be during mid-
overall project and each schedule and referenced in Figure 3 and

Describe the implementation plan of the proposed project. Please include an estimated
DRAFT

The proposed project is a combination of North Kern’s efforts to improve recovery and retain groundwater resources, and the regional groundwater sustainability efforts in the San Joaquin Valley. The project has been designed to enhance the region’s ability to manage water resources, improve water management and infrastructure, and reduce the dependence on imported water. The project will also improve water reliability and allow for more efficient use of groundwater resources.

1.5.6 Evaluation Criterion E: Department of Interior Priorities

The project complies with the requirements of the NEPA and SF-299 Environmental Permit, and is a critical need to improve water reliability. The project also complies with the requirements of the California Environmental Quality Act (CEQA). The proposed project will enhance water reliability and improve water management, thereby reducing the reliance on imported water. The project will also improve water supply and reliability, thereby reducing the need for new construction and improving the reliability of water supply in the region.

Although North Kern is not a region that has been directly affected by the proposed project, the project is important to the region’s overall water reliability. The proposed project will be an important component of the region’s water reliability strategy, and will help to ensure that the region is able to meet its water needs in the future.

1.5.5 Evaluation Criterion: Nexus to Reclamation

Discuss the nexus between the proposed project and a reclamation project or activity.
2.2 Budget Proposal

No, the budget proposal does not include any project costs that have been or may be incurred.

In addition, please indicate whether the budget proposal includes any project costs that
have been or may be incurred prior to award.

The Project Companions:
The District does not have any pending funding requests that have not yet been approved for
explaining how the project will be affected if such funding is denied.
Any pending funding requests (e.g., grants or loans) that have not yet been approved and
no other non-Federal funding has been requested or received for the proposed work.

Any cash requested or received from other non-Federal entities.

No other funding partners need to be identified.

Identity and amount of funding to be provided by funding partners.

Estimates:
Consolidation services, Preliminary design work has been supported by the preparation of consolidation cost
Kind costs incurred as Project costs. The design is being completed under a contract for cost.
-concatenation to be incurred as design progresses. North Kern does not anticipate incurring any in-
preparation for this application. Preliminary authorization will be made for consolidation costs that will
North Kern multihour consolidation costs for preliminary design to allow project definition.

Any third-party in-kind costs (e.g., goods and services provided by a third party).

This mid-year to calculate the need for any mid-year adjustments.

The District adopts an annual budget during the fall of each year and revises the budget at
utilization to meet the cost obligations for the purchase and installation of the equipment it needed.
District Revenues account. The District identifies the Revenues Fund for 2019 and into 2020 to be
be contributed by the applicant.

source of funds (e.g., revenue account, tax revenue, and/or assessments). Any costs that will
Any monies contributed by the applicant towards the cost-share requirement and
Budget Table Format:

Table 2-1 provides a summary of the estimated costs for implementation of the Project:

<table>
<thead>
<tr>
<th>Task</th>
<th>Budget Proposal Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 2</td>
<td>GSA 8,000 Budget</td>
</tr>
<tr>
<td>Task 3</td>
<td>Project Design</td>
</tr>
<tr>
<td>Task 4</td>
<td>Environmental, Documentation and Regulatory Compliance</td>
</tr>
<tr>
<td>Task 5</td>
<td>Permits &amp; Approvals</td>
</tr>
<tr>
<td>Task 6</td>
<td>Construction</td>
</tr>
<tr>
<td>Task 7</td>
<td>Construction Administration</td>
</tr>
</tbody>
</table>

The Project budget was prepared based on the level of effort required to implement the project as discussed in Section 1.2 - Tasks and Project Work. The Work Plan identifies and describes each task used to define the overall Project Scope, Schedule, and Budget.

Several tables have been prepared in support of these budget estimates, which immediately follow.

Table 2-2: Summary of Non-Federal and Federal Funding Sources

<table>
<thead>
<tr>
<th>Funding Amount</th>
<th>Total Project Funding:</th>
</tr>
</thead>
<tbody>
<tr>
<td>$750,000</td>
<td>$750,000</td>
</tr>
<tr>
<td>Other Federal Subtotal:</td>
<td>$98,531</td>
</tr>
<tr>
<td>$</td>
<td>$98,531</td>
</tr>
<tr>
<td>Non-Federal Entities:</td>
<td>$25,000</td>
</tr>
<tr>
<td>Site Funding:</td>
<td>$25,000</td>
</tr>
<tr>
<td>North Kern WSD:</td>
<td>$25,000</td>
</tr>
<tr>
<td>Non-Federal Entities:</td>
<td>$25,000</td>
</tr>
</tbody>
</table>

Table 2-2: Summary of Non-Federal and Federal Funding Sources

Table 2-1 provides a summary of the estimated costs for implementation of the Project, including the non-federal and federal funding sources. These tables are crucial for understanding the financial aspects of the project.


Surveyor: (in support of Construction) = 25 miles/roundtrip x 2 roundtrips = 50 miles
Surveyor: (in support of Design) = 25 miles/roundtrip x 2 roundtrips = 50 miles

The project cost is calculated as follows:

- Land Survey: $10,000
- Design: $20,000
- Construction: $30,000

Total project cost: $60,000

2.3 Budget Narrative

 achievable by each.

The following costs were considered for each mile:

- Surveyor: $100
- Design: $200
- Construction: $300

Total cost per mile: $600

The project is estimated to be completed within 3 years.

The following table outlines the proposed budget for the project:

<table>
<thead>
<tr>
<th>Mileage</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20</td>
<td>$500</td>
</tr>
<tr>
<td>21-40</td>
<td>$1,000</td>
</tr>
<tr>
<td>41-60</td>
<td>$1,500</td>
</tr>
</tbody>
</table>

Total project budget: $3,000

The project has been approved by the City Council and is expected to start in June.

Rama Venkatesan, Deputy General Manager, North Kern WSD
In the area.

Based on the consulting engineer's expertise from similar well design and pipeline projects built in the area, the consultant believes that the estimation of 4% of the construction cost being allocated for this task is realistic. An estimate of 4% is typical for well design and construction.

**TASK 7: Construction Administration (Table 2-8)**

- Includes District staff and the Engineer.

**Third-Party In-Kind Contributions**

No work will be accomplished by third-party in-kind contributions.

The number of hours by job classification by the applicable hourly rate.

- Projects design projects (including R 18AP0008).
- The total was determined by multiplying the pipeline design projects by the applicable hourly rate.

The proposal is based on recent experience and recent work done by the consultant. The estimate presented is based on recent experience and recent work done by the consultant.

**Districts for other consultants are also presented including the District's legal costs under contract.**

**Disclosures for Projects That Have Been Similar in Scope and Complexity**

The consultant and the owner, in conjunction with other owners, have provided similar projects to the consultant.

**Reconciliation**

The budget under the "contractual" and "consultant" for all tasks. Refer to Tables 2-2 through 2-4 under the category "Reconciliation" for a summary of the contractual costs. A copy of the reconciliation is provided at the end of this document.

**Districts in the Reconciliation**

The consultant's technical expertise. It is noted that work described in the work plan is not included. The consultant is required to submit the consultant's technical expertise.

**Equipment and Supplies**

- No equipment, except for the installation of supplies.
- No materials and supplies.
- The proposed project will be advertised for bid and the District will be soliciting bids for construction of the project work. In this regard, the District will contract with a qualified contractor who will provide a cost estimate for the project work.
Proposal

Factual

The proposal is to implement the previous R18AP00088.

Other Costs - Costs under this category were included in Task 4, Environmental Documentation.

Consequently, the work is covered under the "Environmental Compliance and Other Costs" were estimated and included in Task 5 - Environmental Compliance.

Any work related to "Grant Reporting" will be completed by the Environmental Reporting.

According to the Funding Opportunity Announcement (FOA) guidelines, "a minimum amount on the proposed project's budget for environmental compliance should be equal to 2% of the total project cost."

Environmental and Regulatory Compliance Costs - In the budget table it shows various components under this task.

Proposal - The District performed pre-construction estimates to calculate the length and size.
Appendix

Indirect Costs - No indirect costs are included in the budget. According to the Category, this calculation does not

District to implement the previous R18AP00088 grant.

This cost has been estimated using a North Kern contract signed between the consultant and the

A fee of $3,250 has been estimated for this project as part of the pre-construction biological survey.

documents.

already been included under Task 6 - Construction, as evidenced in the attached sample bid.

Please note: The costs under Task 5 are only for conducting the difference, which regards to the

The contractor, therefore, has been included as part of the construction task.

Approved Callaway Canal lining project. The NDPES SWPPP and PM-10 permits will be held by

estimates based on recent experience by the District in lining similar permits for the recent USBR

permits (if deemed necessary by USBR). The costs provided are
Based on the previously completed well drilling and remediation projects:

The amount of personal hours was estimated from district and consultant engineer experience.

(5) The personal cost to Section 1 in Table 2-14 for a budget summary of all projected costs.

(6) For use in Table 2-13, the Work Plan in Section 1 for each description.

Table 2-14: The list of jobs and conditions with payables from Office/Red, black, and conditions are shown in:

This table is supported by detailed labels which are included immediately following the budget.

Cost Estimating Notes:

<table>
<thead>
<tr>
<th>Source</th>
<th>Percent of Total</th>
<th>Total Cost By</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,708.53</td>
<td>40%</td>
<td>$</td>
</tr>
<tr>
<td>$6,900.00</td>
<td>44%</td>
<td>$</td>
</tr>
<tr>
<td>$995.31</td>
<td>6%</td>
<td>$</td>
</tr>
</tbody>
</table>

Table 2-14 Program Funding Sources:

<table>
<thead>
<tr>
<th>Source</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,708.53</td>
<td>Task 1 - Administration</td>
</tr>
<tr>
<td>$6,900.00</td>
<td>Task 2 - Administration</td>
</tr>
<tr>
<td>$995.31</td>
<td>Task 3 - Administration</td>
</tr>
<tr>
<td>$4,149.97</td>
<td>Task 4 - Environmental Documentation</td>
</tr>
<tr>
<td>$2,268.72</td>
<td>Task 5 - Field Audit and Reporting</td>
</tr>
<tr>
<td>$2,268.72</td>
<td>Task 6 - Construction</td>
</tr>
<tr>
<td>$2,268.72</td>
<td>Task 7 - Permit and Approval</td>
</tr>
</tbody>
</table>

Table 2-13: Budget Summary By Task.
<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Quantity</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and Wages (including fringe benefits)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principal Engineer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senior Engineer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junior Engineer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative Staff</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deputy General Manager</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indirect Costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Indirect Costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Direct Costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REU (Regulatory)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Municipal Materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Travel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LADIS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal Counsel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Estimated to be 1.5% of overall project costs, based on recently completed real estate projects.
<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary and Wages (including fringe benefits)</td>
<td>45.09</td>
<td>Hour</td>
<td>$1,025.16</td>
</tr>
<tr>
<td></td>
<td>114.00</td>
<td>Hour</td>
<td>50.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>45.09</td>
<td>Hour</td>
<td>$1,025.16</td>
</tr>
<tr>
<td></td>
<td>114.00</td>
<td>Hour</td>
<td>50.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotal</td>
<td>159.09</td>
<td>Hour</td>
<td>$1,549.16</td>
</tr>
<tr>
<td></td>
<td>114.00</td>
<td>Hour</td>
<td>50.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>159.09</td>
<td>Hour</td>
<td>$1,549.16</td>
</tr>
<tr>
<td></td>
<td>114.00</td>
<td>Hour</td>
<td>50.00</td>
</tr>
<tr>
<td>Task</td>
<td>Description</td>
<td>2% of Total Cost</td>
<td>3% of Total Cost</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>A</td>
<td>Task 1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>B</td>
<td>Task 2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>C</td>
<td>Task 3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: The table above shows the breakdown of costs for tasks 1 to 3. The percentages listed are based on a percentage of the total cost of each task. The costs are calculated based on the budgeted amounts for each task as outlined in the table.
### TOTAL PROJECT COSTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect Costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Costs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Resources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search Fee</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental/Compliance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contractual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplies/Materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Final cost will be determined upon consultation with the client.
- Estimated based on total area of land disturbed. Area of disturbance was calculated when the preliminary cost

### Table 2-5: Task 4 Environmental Documentation

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Type</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative Staff</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deputy General Manager</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and Wages (including fringe benefits)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Item Description</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 2-6. Task 5 - Permits and Approvals

<table>
<thead>
<tr>
<th>Task</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Budget Item Description</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compensation Computation</td>
</tr>
</tbody>
</table>

#### Notes:
- Construction costs include permits. The two other permits (NPS SWAPP and PM-10) are included as part of the project.
- All fees are based on a total area of land disturbed. Fees of disturbance were calculated when the preliminary site plan was approved.

<table>
<thead>
<tr>
<th>Task</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Budget Item Description</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compensation Computation</td>
</tr>
<tr>
<td>Item Description</td>
<td>Quantity</td>
<td>Unit</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>------</td>
</tr>
<tr>
<td>Indirect Costs</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Total Direct Costs</td>
<td>$1,460,997</td>
<td>$1,460,997</td>
</tr>
<tr>
<td>Other Equipment Rental</td>
<td>$30</td>
<td>$30</td>
</tr>
<tr>
<td>Environmental Fees</td>
<td>$28</td>
<td>$28</td>
</tr>
<tr>
<td>Travel</td>
<td>$1,424,132</td>
<td>$1,424,132</td>
</tr>
<tr>
<td>Appendix E</td>
<td>16 Hours</td>
<td>16 Hours</td>
</tr>
<tr>
<td>Manual Plotting</td>
<td>$252,00</td>
<td>$252,00</td>
</tr>
<tr>
<td>Appendix D</td>
<td>40 Hours</td>
<td>40 Hours</td>
</tr>
<tr>
<td>Well Testing</td>
<td>$310,460</td>
<td>$310,460</td>
</tr>
<tr>
<td>Survey Crew - 2 Rangers @ 25 mph</td>
<td>50 Miles</td>
<td>50 Miles</td>
</tr>
<tr>
<td>Appendix D</td>
<td>16 Hours</td>
<td>16 Hours</td>
</tr>
<tr>
<td>Well Drilling and Equipping</td>
<td>$110,00</td>
<td>$110,00</td>
</tr>
<tr>
<td>Appendix D</td>
<td>16 Hours</td>
<td>16 Hours</td>
</tr>
<tr>
<td>Senior Geologist</td>
<td>$118,00</td>
<td>$118,00</td>
</tr>
<tr>
<td>Appendix D</td>
<td>0 Hours</td>
<td>0 Hours</td>
</tr>
<tr>
<td>Deputy General Manager</td>
<td>$142,00</td>
<td>$142,00</td>
</tr>
<tr>
<td>Appendix D</td>
<td>160 Hours</td>
<td>160 Hours</td>
</tr>
<tr>
<td>Senior Professional - Grade 6</td>
<td>$188,00</td>
<td>$188,00</td>
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<tr>
<td>Appendix D</td>
<td>214 Hours</td>
<td>214 Hours</td>
</tr>
<tr>
<td>Senior Professional - Grade 7</td>
<td>$255,00</td>
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</tr>
<tr>
<td>Appendix D</td>
<td>296 Hours</td>
<td>296 Hours</td>
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</tbody>
</table>

**TOTAL PROJECT COSTS**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Staff</td>
<td>0 Hours</td>
<td>0 Hours</td>
<td></td>
</tr>
<tr>
<td>Deputy General Manager</td>
<td>0 Hours</td>
<td>0 Hours</td>
<td></td>
</tr>
</tbody>
</table>

**CONTRACTUAL SALARIES AND WAGES (INCLUDING FRINGE BENEFITS)**

**Table 2-7. Task 6 - Construction**
(3) Salaries and Wages and Fringe Benefits for District staff will be charged to a General Accounting (approx. 4% of construction costs)

(2) Estimating costs on cost incurred in the previously completed well drilling and pipeline installation costs

(1) Construction Administration activities include field inspection and oversight.

**NOTES:**

<table>
<thead>
<tr>
<th>TOTAL PROJECT COSTS</th>
<th>INDIRECT COSTS</th>
<th>TOTAL DIRECT COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>$599,673.00</td>
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<td></td>
</tr>
</tbody>
</table>

**OTHER**

**ENVIRONMENTAL/RECE**

**CONTRACTUAL**

**SUPPLIES/MATERIALS**

**TRAVEL**

<table>
<thead>
<tr>
<th>Technician</th>
<th>$0.00</th>
<th>10.00 Hours</th>
<th>$0.00</th>
<th>12.00 Hours</th>
<th>$0.00</th>
<th>18.00 Hours</th>
<th>$0.00</th>
<th>22.00 Hours</th>
<th>$0.00</th>
<th>30.00 Hours</th>
<th>$0.00</th>
<th>36.00 Hours</th>
<th>$0.00</th>
<th>42.00 Hours</th>
<th>$0.00</th>
<th>48.00 Hours</th>
<th>$0.00</th>
<th>54.00 Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior CAD Drafter</td>
<td>$4.70</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
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<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
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</tr>
<tr>
<td>Project Professional - Grade 1</td>
<td>$525.00</td>
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<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
</tr>
<tr>
<td>Project Professional - Grade 2</td>
<td>$1,500.00</td>
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<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
</tr>
<tr>
<td>Project Professional - Grade 3</td>
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<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
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<td>0.00 Hours</td>
</tr>
<tr>
<td>Project Professional - Grade 4</td>
<td>$2,500.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
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<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
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<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
</tr>
<tr>
<td>Deputy General Manager</td>
<td>$5,114.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
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<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
<td>$0.00</td>
<td>0.00 Hours</td>
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**COMMISSIONS**

<table>
<thead>
<tr>
<th>TOTAL COST</th>
<th>SALARIES AND WAGES (INCLUDING FRINGE BENEFITS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>$396,072</td>
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<tr>
<td>$56,472.00</td>
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</tr>
<tr>
<td>Quantity</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL PROJECT COSTS</strong></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL DIRECT COSTS</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Equipment Rental</strong></td>
</tr>
<tr>
<td></td>
<td>1,000 Each</td>
</tr>
<tr>
<td></td>
<td><strong>OTHER</strong></td>
</tr>
<tr>
<td></td>
<td>SF-299 Environmental Permit</td>
</tr>
<tr>
<td></td>
<td><strong>ENVIRONMENTAL</strong></td>
</tr>
<tr>
<td></td>
<td>Survey Crew - 4 conducts @ $5,000</td>
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<tr>
<td></td>
<td><strong>TRAVEL</strong></td>
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<tr>
<td></td>
<td><strong>Equipment Procurement</strong></td>
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<tr>
<td></td>
<td><strong>SUPPLIES/MATERIALS</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Engineering Field</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Well Drilling and Blasting</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Well Drilling and Construction</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Contractual Services</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Salaries And Wages (Including Fringe Benefits)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

Table 2.8: Detailed Budget Summary
<table>
<thead>
<tr>
<th>Hourly Rate</th>
<th>Benefits</th>
<th>Fringe</th>
<th>Hourly Rate</th>
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<tbody>
<tr>
<td>$45.09</td>
<td>$17.54</td>
<td>$227.55</td>
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<tr>
<td>$37.15</td>
<td>$14.20</td>
<td>$222.95</td>
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<td>$45.09</td>
<td>$13.88</td>
<td>$314.20</td>
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<td>$14.13</td>
<td>$28.87</td>
<td>$658.70</td>
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</tr>
</tbody>
</table>

Notes:
2 Fixed total yearly benefits divided by 2080 hours.
1 Fixed annual base salary divided by 2080 hours.

Table 2-10a
PAYMENT TERMS

Payment in full is required at the time of order. All prices are in US dollars and are subject to change without notice. Payment must be made in US dollars. We accept payments by check, wire transfer, or credit card. Payment is due upon receipt of invoice. Interest will be charged on all amounts not paid by the due date.

OTHER PROJECT COSTS

The above prices are for labor only and do not include materials. Please consult with your project manager for the final cost of your project.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPS</td>
<td>Square Post</td>
<td>$100</td>
</tr>
<tr>
<td>TPS</td>
<td>Triangle Post</td>
<td>$150</td>
</tr>
<tr>
<td>CDS</td>
<td>Circular Deck</td>
<td>$200</td>
</tr>
<tr>
<td>SLP</td>
<td>Square Ledge</td>
<td>$250</td>
</tr>
<tr>
<td>SSD</td>
<td>Square Step</td>
<td>$300</td>
</tr>
</tbody>
</table>

Hardware and materials separately. Prices subject to change without notice.
Compliance

3. Environmental and Cultural Resources

When was the water delivery system constructed?

No. All under CWA jurisdiction as "Waters of the United States."

Are there wetlands or other surface waters inside the project boundaries that potentially

prohibit rights-of-way?

and Federal. (I.e., because mapping, no endangered species habitats have been identified within the

County. However, based on experience, the Kern County of Governmental Habitat Conservation

and Kern County. The FWS Endangered Species Database lists several threatened and endangered species within Kern

Kern County is aware that threatened and endangered species exist in the study area. Joaquin Valley.

NDWSD is aware that threatened and endangered species exist in the study area. Joaquin Valley.

Are you aware of any species listed or proposed to be listed as a Federal Endangered or

and all necessary biological surveys.

measures include executing the PM-10 Dust Control Plan, Storm Water Pollution Prevention Plan,
even high priority disturbed area to the environment and animal life. Such environmental

Referential: all applicable environmental compliance measures will be followed. A minimum of

part of this project that will have a significant impact on soil, air, water, or animal habitat quality.

a causal relationship is an administratively determined soil. At this time, the District is not aware of any

can be assumed of an administratively determined soil. At this time, the District is not aware of any

The extent of consultation activities (cooperation) for the project is relatively small and focused within

and quantifiable, animal habitat)?

will the project impact the surrounding environmental (e.g., soil, dust, air, water, quality)?

in the Environmental and Cultural Resources Compliance Section of the FCA.

in the following paragraphs address the specific questions posed to the FCA with a mandated pipeline. The following paragraphs address the specific questions posed to the FCA with a mandated pipeline. The following paragraphs address the specific questions posed to the FCA with a mandated pipeline.
NO.

WILL the project contribute to the introduction, continued existence, or spread of noxious

needs or non-native invasive species known to occur in the area?

NO.

with impacts of tribal lands?

NO.

WILL the proposed project limit access to and ceremonial use of Indian sacred sites or result in

San Joaquin Valley and should have only positive impacts on low income or minority persons living

minority populations?

WILL the project have a disproportionate effect on low income or
distressed cultural resources be identified?

archaeological sites. In addition, the District is prepared to implement any necessary mitigation

fields. It is expected that there will be no obstacles to receipt of clearance with respect to

NO. Since the project area has been displaced previously for the construction of farm roads and

Are there any known archaeological sites in the proposed project area?

in acquiring clearance.

been conducted in the project area. The District currently does not expect to encounter any obstacles

Restoration Office can assist in assessing

Local Archaeology Office or the State Historic Preservation Office can assist in assessing your

ARE any buildings, structures, or features in the integration district listed on either the

ARE any modifications to those features completed previously?

modifications to those features completed previously. Modifications and describe the nature and timing of any extensive alterations of

integration system (e.g., headgates, canals, or ditches). If so, site when those features were

WILL the project result in any modifications to features in the individual Reclamation or an

road development as the city of Bakersfield has slowly been expanding to the north. It is worth

system features (e.g., headgates, canals, or ditches).
4. Required Permits or Approvals

- As summarized in Section 1.3.2:

- Reclaimed pipeline equipment and the facility are located exclusively within maintained rights-of-way owned and operated by North Kern WSD. Three of the wells will be connected to the pipeline.
5. Existing Drought Contingency Plan