

County of Monterey

*Saffron Room
1441 Schilling Place
Salinas, CA 93901*



Meeting Agenda

Friday, April 4, 2025

11:00 AM

Saffron Room 1441 Schilling Place, Salinas, Ca 93901

**Water Resources Agency Personnel and
Administration Committee**

To participate in this Personnel And Administration Committee meeting through the following methods:

1. You may attend in person,
2. For ZOOM participation please join by computer audio at:
<https://montereycty.zoom.us/j/91370408511>
OR to participate by phone call any of these numbers below:
+1 669 900 6833 US (San Jose)
+1 346 248 7799 US (Houston)
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+1 929 205 6099 US (New York)
+1 253 215 8782 US
+1 301 715 8592 US

Enter this Meeting ID number: 913 7040 8511 PASSWORD: 420486 when prompted. Please note there is no Participant Code, you will just hit # again after the recording prompts you. You will be placed in the meeting as an attendee; when you are ready to make a public comment, if joined by computer audio, please Raise your Hand; and by phone, please push *9 on your keypad.

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3. If you wish to comment on a specific agenda item while the matter is being heard, you may participate by the following means: When the Chair calls for public comment on an agenda item, the Zoom Meeting Host, or his or her designee, will first ascertain who wants to comment (among those who are in the meeting electronically or telephonically) and will then call on speakers and unmute their device one at a time. Public speakers may be broadcast in audio form only.

4. If you wish to comment on a particular agenda item, please submit your comments in writing via email to Monterey County Water Resources Agency at WRAPubliccomment@co.monterey.ca.us by 5:00 p.m. on the Tuesday prior to the Committee meeting. To assist Agency staff in identifying the agenda item to which the comment relates please indicate the Personnel and Administration Committee meeting date and agenda number in the subject line. Comments received by the 5:00 p.m. Thursday deadline will be distributed to the Committee and will be placed in the record.

5. If you wish to make either a general public comment for items not on the day's agenda or to comment on a specific agenda item as it is being heard, please submit your comment, limited to 250 words or less, to the Monterey County Water Resources Agency at WRAPubliccomment@co.monterey.ca.us. In an effort to assist Agency staff in identifying the

agenda item relating to your public comment please indicate in the subject line, the meeting body (i.e. Finance Committee) and item number (i.e. Item No. 10). Every effort will be made to read your comment into the record, but some comments may not be read due to time limitations.

Comments

received after an agenda item will be made part of the record if received prior to the end of the meeting.

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9. The Chair and/or Secretary may set reasonable rules as needed to conduct the meeting in an orderly manner.

Participar en esta reunión del Comité de Personal y Administración a través de los siguientes métodos:

1. Podar asistir personalmente a la reunion; o,

2. El público puede observar la reunión ZOOM a través de computadora haciendo clic en el siguiente enlace: <https://montereycty.zoom.us/j/91370408511>

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4. Si un miembro del público desea comentar sobre un artículo de la agenda en particular, se le es sumamente recomendable que envíe sus comentarios por escrito por correo electrónico a la Agencia de Administración de Recursos del Agua (Agencia) a WRAPubliccomment@co.monterey.ca.us antes de las 5:00 P. M. el Jueves antes de la reunión del Comité. Para ayudar al personal de la Agencia a identificar el número del artículo de la agenda con el cual se relaciona el comentario, se solicita al público que indique la fecha de la reunión del Comité y el número del artículo de la agenda en la línea de asunto. Comentarios recibidos en la fecha límite del Jueves a las 5 P.M, serán distribuidos al Comité y serán colocados en el registro.

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el comentario, se solicita al público que indique la fecha de la reunion del Comité y el número de agenda en la línea de asunto.

7. Si los miembros del público desean presentar documentos o presentaciones de PowerPoint mientras hablan, deben enviar el documento electrónicamente antes de las 5:00 P.M. del Jueves antes de la reunión a WRAPubliccomment@co.monterey.ca.us (Si se presenta después de ese plazo, el personal hará los mejores esfuerzos, pero no puede garantizar que esté disponible su PowerPoint para presentar durante la reunión del Comité).

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9. El Presidente y / o Secretario pueden establecer reglas razonables según sea necesario para llevar a cabo la reunión de manera ordenada.

Call to Order

Roll Call

Public Comment

Committee Member Comments

Consent Calendar

1. Approve the Minutes of the Personnel and Administration Committee held on February 7, 2025.

Attachments: [draft P&A Minutes February 7, 2025](#)

Scheduled Items

2. Consider recommending to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve an easement expansion for CSIP Supplemental Well 11B02 on Parcel 253-012-027-000 from Grantor BOGGIATTO MICHAEL E. SR TR ET AL for construction of a replacement supplemental well for the Castroville Seawater Intrusion Project; and authorize the General Manager to execute the Grant of Easement Deed for CSIP Supplemental Well 11B02 Easement Expansion. (Staff Presenting: Pete Vannerus)

Attachments: [Board Report](#)
 [Grant Easement Deed](#)
 [Exhibit A-C](#)

3. Consider recommending to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve a Request for Bids Package (“RFB”) including Technical Specifications for the Castroville Seawater Intrusion Project’s Well Replacement 11B02 Project, and authorize the General Manager to execute a contract for the project construction with the awarded contractor. (Staff Presenting: Pete Vannerus)

Attachments: [Board Report](#)
 [Draft RFB 25-001](#)
 [Technical Specifications for Well 11B02](#)

Status Reports

4. Personnel Update. (Staff Presenting: Jessell Fenley)
5. Update 2024 Annual Inspection Reports for the Grazing Lease Program. (Staff Presenting: Jennifer Boadensteiner)

Attachments: [Update 2024 Annual Inspection Reports Grazing Lease Program](#)
 [San Antonio Grazing Map](#)
 [Naci Grazing Map](#)

Calendar

6. Set next meeting date and future agenda items.

Adjournment



County of Monterey

Item No.1

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-007

April 04, 2025

Introduced: 3/28/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Approve the Minutes of the Personnel and Administration Committee held on February 7, 2025.

County of Monterey

*Saffron Room
1441 Schilling Place
Salinas, CA 93901*



Meeting Minutes

Friday, February 7, 2025

10:00 AM

Saffron Room 1441 Schilling Place Salinas, CA 93901

Water Resources Agency Personnel and Administration Committee

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9. El Presidente y / o Secretario pueden establecer reglas razonables según sea necesario para llevar a cabo la reunión de manera ordenada.

Call to Order

The meeting was called to order at 10:02 a.m.

Roll Call

Present: John Baillie, Mike LeBarre, Matthew Simis
Absent: Mark Gonzalez

Public Comment

None

Committee Member Comments

None

Consent Calendar

Upon motion by Matthew Simis, Second by Mike LeBarre the committee approved the Consent Calendar of the Personal and Administration Committee meeting.

Ayes: John Baillie, Mike LeBarre, Matthew Simis,

Noes: None

Absent: Mark Gonzalez

Abstained: None

1. Approve the Minutes of the Personnel and Administration Committee meeting held on November 8, 2024.

Attachments: [draft P&A Minutes November 8, 2024](#)

Status Reports

2. The Personnel and Administration Committee to make position recommendation to the Water Resources Agency Board of Directors on HR 471, Fix our Forests Act. (Staff Presenting: Ara Azhderian)

Attachments: [2025.02.07 WRA GM Memo](#)

[ACWA FAC Memo](#)

[HR 471](#)

Upon motion by Matthew Simis, Second by Mike LeBarre the committee recommended to the Water Resources Agency Board of Directors on HR 471, Fix our Forest Act.

Ayes: John Baillie, Mike LeBarre, Matthew Simis,

Noes: None

Absent: Mark Gonzalez

Abstained: None

3. The Personnel and Administration Committee to make position recommendation to the Water Resources Agency Board of Directors on HR338, the Every Drop Counts Act. (Staff Presenting: Ara Azhderian)

Attachments: [2025.02.07 WRA GM Memo](#)

[ACWA Memorandum](#)

[Draft HR 338](#)

Upon motion by Mike LeBarre, Second by Matt Simis the committee recommended to the Water Resources Agency Board of Directors on HR338, the Every Drop Counts.

Ayes: John Baillie, Mike LeBarre, Matthew Simis,

Noes: None

Absent: Mark Gonzalez

Abstained: None

4. Personnel Update. (Staff Presenting: Jessell Fenley)

Attachments: [WRA Org Chart](#)

Committee Member Comments: Matthew Simis

Public Comments: None

5. Grazing Lease Update. (Staff Presenting: Jessell Fenley)

Committee Member Comments: John Baillie

Public Comments: None

Calendar

6. Set next meeting date and discuss future agenda items.

Adjournment

The meeting adjourned at 10:16 a.m.



County of Monterey

Item No.2

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-011

April 04, 2025

Introduced: 4/1/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Consider recommending to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve an easement expansion for CSIP Supplemental Well 11B02 on Parcel 253-012-027-000 from Grantor BOGGIATTO MICHAEL E. SR TR ET AL for construction of a replacement supplemental well for the Castroville Seawater Intrusion Project; and authorize the General Manager to execute the Grant of Easement Deed for CSIP Supplemental Well 11B02 Easement Expansion. (Staff Presenting: Pete Vannerus)

RECOMMENDATION:

It is recommended that the Personnel and Administration Committee endorse a recommendation to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve an easement expansion for CSIP Supplemental Well 11B02 on Parcel 253-012-027-000 from Grantor BOGGIATTO MICHAEL E. SR TR ET AL for construction of a replacement supplemental well for the Castroville Seawater Intrusion Project; and authorize the General Manager to execute the Grant of Easement Deed for CSIP Supplemental Well 11B02 Easement Expansion.

SUMMARY/DISCUSSION:

Mr. Michael Boggiatto ("Property Owner") has agreed to grant an exclusive easement expansion on property parcels described in Exhibit A (APN 253-011-002-000 & 253-012-027-000) for a replacement supplemental well for the Castroville Seawater Intrusion Project (CSIP). This property is situated in the unincorporated area of Monterey County, California and is within Monterey County Water Resources Agency's ("MCWRA") Zone 2B. The easement expansion will consist of a permanent exclusive easement connecting to the existing CSIP Well 11B01 easement to the north-east and will be 50-ft wide by 50-ft long, totaling 2500 sq-ft. A temporary construction easement will be granted for a year from the construction start date and will encompass 10,000 sq-ft of space around the permanent easement.

The easement expansion site will allow the replacement CSIP Well 11B02 to be constructed after 11B01's collapse occurred in early 2024, which brought the total operational CSIP wells to 8. The replacement supplemental well will be constructed with partial funding from an EPA grant. The site is ideal for a replacement as water quality is good in the location and reduced costs can be achieved with utilizing existing utilities and the connection area into the distribution system near the easement.

The proposed Grant of Easement Deed is attached hereto as Attachment 1. The location and

description of the original easement and parcels is detailed in Exhibit A, the expansion easement is detailed in Exhibit B, and the easement plat is detailed in Exhibit C.

FINANCING:

Grantor will receive compensation of \$1.12 per square foot of easement expansion area, totaling \$2800. Funding will be from CSIP Fund 131 through budgeted project funds in Fiscal Year 25.

OTHER AGENCY INVOLVEMENT:

County Counsel has reviewed the Grant Easement Deed as to form.

Prepared by: Pete Vannerus , Associate Water Resources Engineer, (831) 755-4860

Approved by: Ara Azhderian , General Manager, (831) 755-4860

Attachments:

1. Grant Easement Deed
2. Exhibit A-C



County of Monterey

Item No.

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-011

April 04, 2025

Introduced: 4/1/2025

Current Status: Agenda Ready

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RECOMMENDATION:

It is recommended that the Personnel and Administration Committee endorse a recommendation to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve an easement expansion for CSIP Supplemental Well 11B02 on Parcel 253-012-027-000 from Grantor BOGGIATTO MICHAEL E. SR TR ET AL for construction of a replacement supplemental well for the Castroville Seawater Intrusion Project; and authorize the General Manager to execute the Grant of Easement Deed for CSIP Supplemental Well 11B02 Easement Expansion.

SUMMARY/DISCUSSION:

Mr. Michael Boggiatto ("Property Owner") has agreed to grant an exclusive easement expansion on property parcels described in Exhibit A (APN 253-011-002-000 & 253-012-027-000) for a replacement supplemental well for the Castroville Seawater Intrusion Project (CSIP). This property is situated in the unincorporated area of Monterey County, California and is within Monterey County Water Resources Agency's ("MCWRA") Zone 2B. The easement expansion will consist of a permanent exclusive easement connecting to the existing CSIP Well 11B01 easement to the north-east and will be 50-ft wide by 50-ft long, totaling 2500 sq-ft. A temporary construction easement will be granted for a year from the construction start date and will encompass 10,000 sq-ft of space around the permanent easement.

The easement expansion site will allow the replacement CSIP Well 11B02 to be constructed after 11B01's collapse occurred in early 2024, which brought the total operational CSIP wells to 8. The replacement supplemental well will be constructed with partial funding from an EPA grant. The site is ideal for a replacement as water quality is good in the location and reduced costs can be achieved with utilizing existing utilities and the connection area into the distribution system near the easement.

The proposed Grant of Easement Deed is attached hereto as Attachment 1. The location and description of the original easement and parcels is detailed in Exhibit A, the expansion easement is detailed in Exhibit B, and the easement plat is detailed in Exhibit C.

FINANCING:

Grantor will receive compensation of \$1.12 per square foot of easement expansion area, totaling \$2800. Funding will be from CSIP Fund 131 through budgeted project funds in Fiscal Year 25.

OTHER AGENCY INVOLVEMENT:

County Counsel has reviewed the Grant Easement Deed as to form.

Prepared by: Pete Vannerus , Associate Water Resources Engineer, (831) 755-4860

Approved by: Ara Azhderian , General Manager, (831) 755-4860

Attachments:

1. Grant Easement Deed
2. Exhibit A-C

**Recording Requested by and
When Recorded, Return to**

Monterey County Water Resources Agency
Attn: General Manager
1441 Schilling Place, North Building
Monterey, CA 93901
PO Box 930
Salinas, CA 93902

Exempt from Recording Fees: Gov. Code § 27383
Exempt from Documentary Transfer Tax: Rev. & Tax.
Code § 11922

APNS: 253-011-002-000 & 253-012-027-000

SPACE ABOVE THIS LINE FOR RECORDER'S USE ONLY

GRANT OF EASEMENT DEED (EXCLUSIVE) AND TEMPORARY EASEMENT

THIS GRANT OF EASEMENT DEED is made this _____ day of _____ 2025, by and between the BOGGIATTO MICHAEL E. SR TR ET AL. ("Grantor"), and the Monterey County Water Resources Agency, a California public entity, ("Grantee").

A. Grantor is the owner of the real property situated in the County of Monterey, California, commonly known as APNs 253-011-002-000 & 253-012-027-000, and more particularly described as Lots I and XXXVII as shown on "Map Showing Land in Santa Rita and Sausal Ranchos as Subdivided and Sold by Chris Thorup" filed for record August 28, 1911 in Volume 1 of Surveys at Page 76, Monterey County Records, and being also a part of that certain 654.78 acre tract of land conveyed from Bart Guidotti to J.P. Rodgers, et al, by deed dated January 12, 1943 and recorded in Volume 786 of Official Records at Page 330, Monterey County Records (hereinafter the "Property") and as depicted in Exhibit A; and

B. Grantor wishes to grant to Grantee a permanent exclusive easement (hereinafter "Easement") and a temporary construction easement ("Temporary Easement") to replace an existing groundwater well that supplies supplementary water to the Grantee's Castroville Seawater Intrusion Project ("CSIP"), including destroying the existing supplemental well, and drilling and installing the new supplemental well, and maintaining, inspecting, operating, and destroying such new well, upon that portion of the Property described below. The Easement area is depicted in Exhibit B. Both the Easement and the Temporary Easement areas are depicted in the plat on Exhibit C.

NOW, THEREFORE, FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Grantor hereby grants to the Grantee an Easement and Temporary Easement, and right for the express purpose of to destroy, drill, install, maintain, inspect and operate CSIP supplemental wells on that real property situated in the unincorporated area of Monterey County, California, described as follows:

1. Grant of Easement. Grantor grants the exclusive Easement to Grantee described and depicted on Exhibit B. The Easement is for destroying the existing supplemental well, and drilling and installing the new supplemental well, and maintaining, inspecting, operating, and destroying such new well CSIP supplemental well and related appurtenances over, across, along, upon and through the Easement area. The Easement granted herein includes the right to inspect, operate, maintain and destroy the new CSIP supplemental well and appurtenances within the Easement Area, together with the right of access thereto for personnel and equipment necessary and required for such uses and purposes.

2. Grant of Temporary Easement. Grantor hereby grants to Grantee a temporary construction easement for purposes of destroying and constructing a new CSIP supplemental well at Grantee's sole cost and expense. The Temporary Easement is located on a portion of the Property depicted on Exhibit C. The Temporary Easement is granted to Grantee for a period not to exceed one (1) year after Grantee's issuance of a Notice to Proceed with construction of the new CSIP supplemental well.

3. This Easement and Temporary Easement are granted upon the "Monterey County Water Resources Agency Easement, General Provisions", attached as Exhibit D.

IN WITNESS WHEREOF this Easement and Temporary Easement are executed by the parties on the dates set forth below.

[Signature Pages Follow]

GRANTOR
BOGGIATTO MICHAEL E. SR TR ET AL.

Dated: _____

By: _____

Name, Title

A notary or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness accuracy, or validity of that document.

State of California
County of Monterey

On _____, 2025 before me, _____, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or the entity on behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

[Seal]

GRANTEE
Monterey Country Water Resources Agency

Date: _____

By: _____
Ara Azhderian, General Manager

A notary or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness accuracy, or validity of that document.

State of California
County of Monterey

On _____, 2025 before me, _____, personally appeared Ara Azhderian, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or the entity on behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

[Seal]

APPROVED AS TO FORM:

Dated: _____

By: _____

Kelly L. Donlon, Chief Assistant County Counsel

CERTIFICATE OF ACCEPTANCE

THIS IS TO CERTIFY THAT the interest in real property conveyed by this instrument from Grantor to Monterey County Water Resources Agency, a California public entity, is hereby accepted by the undersigned pursuant to the authority conferred by _____ by the Monterey County Water Resource Agency Board of Supervisors on _____, and consent is hereby given for the recordation of said instrument.

Dated: _____

By: _____

Ara Azhderian, General Manager
Monterey County Water Resources Agency

Exhibit D
Monterey County Water Resources Agency
Exclusive Easement and Temporary Easement General Provisions

The Grantor by this Easement and this Temporary Easement (collectively, "Easements") hereby grants to the Grantee permission to enter upon the Property, conditioned upon the agreement of the Parties that these Easements are subject to the following terms and conditions:

1. Claims and Indemnity: Grantee will indemnify, defend and hold harmless Grantor and Grantor's tenants on Grantor's lands described herein against any and all claims liability, loss and damage caused by the exercise of the rights herein granted to Grantee or by any wrongful or negligent act or omission of Grantee or of its agents or employees in the course of their employment in connection with the exercise of the rights herein granted to Grantee; provided, however, that this indemnity shall not extend to that portion of such liability, loss or damage caused by Grantor's comparative negligence or willful misconduct or by the comparative negligence or willful misconduct of Grantor's tenants.

2. Easement Use: With the exception of the new supplemental well and its supporting equipment, no permanent structures or surface improvements may be constructed by Grantor within said Easements, except facilities to cross or connect to adjacent lands of Grantor. Grantor has no obligation to maintain Grantee's property laying within said Easements.

3. Hazardous Materials: Grantor has not caused or shall not cause any hazardous materials to be placed or disposed of on or at the Easement property or any part thereof.

4. Conditions of Access: Grantee has the right of ingress to and egress from said Easements over and across adjacent Grantor's lands. Grantee has the right to use such portion of said lands contiguous to said Easement areas as may be reasonably necessary in connection with the installation and replacement of said facilities.

5. Clearing Easement Area: Grantee has the right from time to time to trim and to cut down and clear away or otherwise destroy any and all trees and brush now or hereafter on said Easement areas and to trim and to cut down and clear away any trees on either side of said Easement areas which now or hereafter in the opinion of Grantee may be a hazard to the facilities installed hereunder by reason of the danger of falling thereon, or may interfere with the exercise of Grantee's rights hereunder; provided, however, that all trees which Grantee is hereby authorized to cut and remove, if valuable for timber or wood, shall continue to be the property of Grantor, but all branches, brush, and refuse wood shall be burned, removed, or chipped and scattered, by Grantee.

6. Fences in Easement Areas: Grantee holds the right to install, maintain and use gates in all fences which now cross or shall hereafter cross said Easement areas.

7. Assignment: These Easements can be assigned, mortgaged, hypothecated, or transferred by Grantee, whether voluntarily or involuntarily or by operation of law, and Grantee may let, sublet or grant any license or permit with respect to the use and occupancy of the Property or any portion thereof, without the prior written consent of Grantor.

[End of Easement, General Conditions]

EXHIBIT "A"

APN 253-011-002-000 & 253-012-027-000

Boggiatto Trust, et al

Situate in the County of Monterey, State of California, to-wit:

That portion of Lots I and XXXVII as shown on "Map Showing Land in Santa Rita and Sausal Ranchos as Subdivided and Sold by Chris Thorup" filed for record August 28, 1911 in Volume 1 of Surveys at Page 76, Monterey County Records, and being also a part of that certain 654.78 acre tract of land conveyed from Bart Guidotti to J.P. Rodgers, et al, by deed dated January 12, 1943 and recorded in Volume 786 of Official Records at Page 330, Monterey County Records, said part being particularly described as follows, to-wit:

BEGINNING at an angle point in the southerly boundary of said 654.78 acre tract of land, at the southerly corner common to said Lots I and XXXVII; and running thence from said place of beginning and along said southerly boundary

- 1) South 62°14'45" East, 2090.64 feet to a point from which an angle point in said southerly boundary bears South 62°14'45" East, 352.20 feet distant; thence leave said boundary and running
- 2) North 26°08' East, 4569.53 feet to a point in the northerly boundary of said 654.78 acre tract of land; thence along last mentioned boundary
- 3) North 30°32' West, 392.46 feet; thence
- 4) South 63° West, 710.2 feet; thence
- 5) North 69°41' West, 660.0 feet; thence
- 6) North 84°11' West, 41.58 feet; thence leave last mentioned boundary and running
- 7) South 21°39'30" West, 2405.83 feet; thence
- 8) South 66°55'10" West, 1833.23 feet to a point in the southerly boundary of said 654.78 acre tract of land from which an angle point thereof bears North 25°44'45" West, 1511.85 feet distant; thence along last mentioned boundary
- 9) South 25°44'45" East, 469.83 feet to the place of beginning.

EXCEPTING therefrom the Southwesterly fifteen (15) feet thereof, being a strip adjoining courses (1) and (9) hereinbefore described.

ALSO EXCEPTING all that portion in Rodgers Road conveyed to the County of Monterey by deed dated November 1, 1957 and recorded November 4, 1957 in Volume 1827 of Official Records at Page 107, Records of Monterey County.

EXHIBIT “B”
CSIP Well 11B1 Expansion Area
APN 253-012-027-000
Boggiatto Trust, et al

Beginning at the northeasterly corner of that certain “Exclusive Easement” for “Well 11B1” as granted by Guerino Quattrin Family Trust, et al, to the Monterey County Water Resources Agency by that certain Easement Deed dated November 2, 1994 and recorded January 6, 1995 in Reel 3189 of Official Records at Page 257, Records of Monterey County, said point lying within the right-of-way of Rodgers Road, a County Road, 60 feet wide (said point having a coordinate of North 521,935.0, East 1,205,077.5); thence from said Point of Beginning

- 1) North 70°12’30” East, 50.00 feet to a point (North 521,951.9, East 1,205,124.5); thence
- 2) South 19°47’30” East, 50.00 feet to a point (North 521,904.9, East 1,205,141.4); thence
- 3) South 70°12’30” West, 50.00 feet to the southeasterly corner of the aforesaid Exclusive Easement (North 521,888.0, East 1,205,094.4); thence along the easterly line of said easement
- 4) North 19°47’30” West, 50.00 feet to the Point of Beginning.

EXCEPTING THEREFROM any portion of the above easement which lies outside the boundary of the tract of land described in Exhibit “A”.

The bearings recited herein are referenced to grid north of the California Coordinate System as constrained by USC&GS station Lapis and NGS HPGN station CA 05 13. The distances recited herein are grid distances. To obtain ground distances multiply by 1.000059. The coordinates recited herein are NAD27.



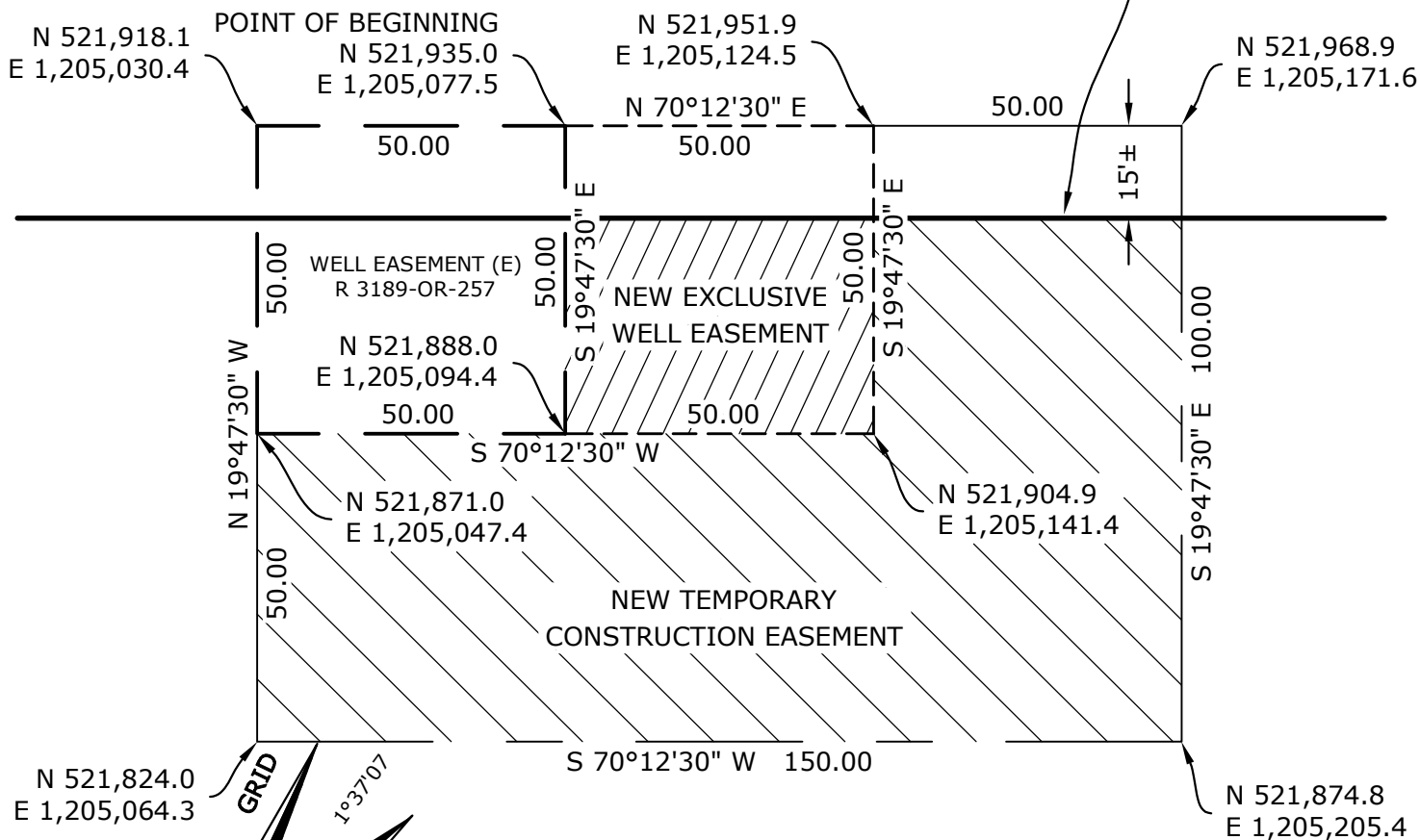
Michael K. Goetz – PLS 5667
County Surveyor
Monterey County, California



December 3, 2024

EXHIBIT "C"

(APPROXIMATE AS-BUILT LOCATION)
RODGERS ROAD
 (FEE STRIP 60' WIDE - SEE V 1827-OR-107)



APN 253-012-027-000

BOGGIATTO TRUST, ET AL

(DOC NO 2020032332)

DATE: December 3, 2024

MICHAEL K. GOETZ - PLS
COUNTY SURVEYOR



The bearings recited herein are referenced to grid north of the California Coordinate System as constrained by USC&GS station Lapis and NGS HPGN station CA 05 13. The distances recited herein are grid distances. To obtain ground distances multiply by 1.000059. The coordinates recited herein are NAD27.



COUNTY OF MONTEREY
OFFICE OF THE COUNTY SURVEYOR

1441 SCHILLING PLACE, SOUTH 2ND FLOOR
SALINAS, CALIFORNIA 93901
(831) 755-4800

MONTEREY CO WATER RESOURCES AGENCY
EXPANSION OF CSIP WELL AREA
WELL NO. 11B1

EXHIBIT "C"

DATE 12/03/24	DRAWING /PROJECTS/WATER RESOURCES/CSIP
----------------------	---

SCALE 1" = 30'	VIEW WELL 11B1
-----------------------	---------------------------------

SHEET
1
OF
1



County of Monterey

Item No.3

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-012

April 04, 2025

Introduced: 4/1/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Consider recommending to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve a Request for Bids Package ("RFB") including Technical Specifications for the Castroville Seawater Intrusion Project's Well Replacement 11B02 Project, and authorize the General Manager to execute a contract for the project construction with the awarded contractor. (Staff Presenting: Pete Vannerus)

RECOMMENDATION:

It is recommended that the Personnel and Administration Committee endorse a recommendation to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve a Request for Bids Package ("RFB") including Technical Specifications for the Castroville Seawater Intrusion Project's Well Replacement 11B02 Project, and authorize the General Manager to execute a contract for the project construction with the awarded contractor.

SUMMARY/DISCUSSION:

The Monterey County Water Resources Agency ("MCWRA") was awarded a Federal Earmark EPA Grant totaling \$900,000 to partially fund the construction of a replacement supplemental groundwater well for the Castroville Seawater Intrusion Project (CSIP) distribution system. The final acceptance of the grant is in process of completion and the bidding process is necessary to finalize the budget numbers, move the project forward, and get a contractor setup to complete the project. The well easement expansion is in the process of becoming finalized for the project.

The Draft Request for Bids (RFB 25-001) is attached along with the project technical specifications. The final RFB will have the schedule of events revised after it's approved by the Monterey County Water Resources Agency Board of Supervisors and is released for bidding.

The project will be replacing Supplemental Well 11B01 which collapsed in early 2024. The old well will be destroyed and the replacement, Well 11B02, will be constructed approximately 50-60 feet to the north-east. The site is ideal for a replacement as water quality is good in the location and reduced costs can be achieved with utilizing existing utilities and the connection area into the distribution system near the easement.

With a large percentage of the funding being obtained from a federal earmark grant, the procurement process will need to comply with not only MCWRA's procurement policy but also with federal policies. This includes the need to complete CEQA evaluation as well as NEPA environmental review. The Project has received a Notice of Exemption (NOE) from the CEQA environmental review and the NEPA process is currently underway.

The draft RFB 25-001 is attached as Attachment 1. The Technical Specifications are attached as Attachment 2. The Technical Specifications include all details for the replacement well project including drilling methods, project plan, tentative final well design that aligns with replacement criteria, and all the other critical details for the project.

FINANCING:

EPA Federal Earmark Grant will fund this project primarily, 20% cost share will be covered by fund balance in Fund 131 (CSIP System)

OTHER AGENCY INVOLVEMENT:

County Counsel has reviewed the RFB 25-001 package

Prepared by: Pete Vannerus , Associate Water Resources Engineer, (831) 755-4860

Approved by: Ara Azhderian , General Manager, (831) 755-4860

Attachments:

1. Draft RFB 25-001
2. Technical Specifications for Well 11B02



County of Monterey

Item No.

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-012

April 04, 2025

Introduced: 4/1/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Consider recommending to the Monterey County Water Resources Agency Board of Directors: Recommend to the Monterey County Water Resources Agency Board of Supervisors, to approve a Request for Bids Package ("RFB") including Technical Specifications for the Castroville Seawater Intrusion Project's Well Replacement 11B02 Project, and authorize the General Manager to execute a contract for the project construction with the awarded contractor.

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SUMMARY/DISCUSSION:

The Monterey County Water Resources Agency ("MCWRA") was awarded a Federal Earmark EPA Grant totaling \$900,000 to partially fund the construction of a replacement supplemental groundwater well for the Castroville Seawater Intrusion Project (CSIP) distribution system. The final acceptance of the grant is in process of completion and the bidding process is necessary to finalize the budget numbers, move the project forward, and get a contractor setup to complete the project. The well easement expansion is in the process of becoming finalized for the project.

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the NEPA process is currently underway.

The draft RFB 25-001 is attached as Attachment 1. The Technical Specifications are attached as Attachment 2. The Technical Specifications include all details for the replacement well project including drilling methods, project plan, tentative final well design that aligns with replacement criteria, and all the other critical details for the project.

FINANCING:

EPA Federal Earmark Grant will fund this project primarily, 20% cost share will be covered by fund balance in Fund 131 (CSIP System)

OTHER AGENCY INVOLVEMENT:

County Counsel has reviewed the RFB 25-001 package

Prepared by: Pete Vannerus , Associate Water Resources Engineer, (831) 755-4860

Approved by: Ara Azhderian , General Manager, (831) 755-4860

Attachments:

1. Draft RFB 25-001
2. Technical Specifications for Well 11B02



**MONTEREY COUNTY
WATER RESOURCES AGENCY
1441 SCHILLING PLACE, NORTH BLDG.
SALINAS, CA 93901
(831) 755-4860**

REQUEST FOR BIDS #25-001

**For
CSIP Supplemental Well 11B02 Replacement Project**

Bids are due by 9:00 AM (PDT) on Friday, April 18, 2025

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EXHIBIT B – TECHNICAL SPECIFICATIONS

CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT

EXHIBIT A:
BID FORMS

DRAFT

BID COVER SHEET

TO THE
MONTEREY COUNTY WATER RESOURCES AGENCY

CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT BID NO. 25-001

Monterey County Water Resources Agency
1441 Schilling Place, North Building, Salinas, CA 93901

Name of Bidder: _____

Business Address: _____

Place of Residence: _____

Telephone Number: _____

Date: _____

State of California
C-57 Contractor License No. _____

License Expiration Date: _____

This Bid consists of pages **4 through 32 (EXHIBIT A)** (Bid Cover Sheet, Instructions to Bidders, Bid Form, Contractor's Experience Qualifications, List of Subcontractors, Non-Collusion Declaration, Worker's Compensation Certificate, and Bid Bond).

INSTRUCTIONS TO BIDDERS

1. **GENERAL DESCRIPTION OF WORK:** The work to be conducted by chosen Bidder includes the furnishing of all labor, material, tools, supplies, equipment, transportation, appurtenances, and services—unless specifically excluded herein—necessary to complete the installation, development and testing of CSIP Supplemental Replacement Well 11B02 as described in Exhibit B- Technical Specifications. The work site is located at the end of Rodgers Road in Salinas, Monterey County, California. Proposals will be accepted only from Contractors with a current State of California C-57 Well Drilling Contractor's License at the time of the submittal. All work shall be done in accordance with the requirements of the Contract Documents and County of Monterey Environmental Health Department Well Construction Permit (Monterey County Code Chapter 15.08). Work must comply with all other regulations and permitting requirements including the Regional Water Quality Control Board ORDER NO. R3-2023-0044 GENERAL WAIVER FOR SPECIFIC TYPES OF DISCHARGES for well testing and development under Attachment A, Section A, Item 4, which will be used during the project.
2. **BID SUBMITTAL:** Bidders are required to return pages **4 through 32 (EXHIBIT A)**, with required information thereon in a sealed envelope by **9:00 a.m., PDT, on Friday April 18, 2025**; to the attention of: Monterey County Water Resources Agency, 1441 Schilling Pl., North Building, Salinas, CA, 93901. At such time, bids will be publicly opened and read aloud. Bids are to be submitted for the entire work described and included in the Contract Documents. Bids shall be sealed, and clearly marked on the outside with the Bidder name and Bid Number. Please submit one (1) signed original hard copy, all signatures shall be in BLUE INK. **BIDS RECEIVED AFTER THIS DEADLINE WILL BE REJECTED REGARDLESS OF POSTMARK DATE AND WILL BE RETURNED UNOPENED TO BIDDER.**
3. **PRE-BID SITE VISIT:** The Pre-bid site visit will occur **Wednesday, April 2, 2025** from 9:30 a.m. to 11:00 a.m. at the well site location at the end of Rodgers Road in Salinas, shown in the map from the Technical Specifications - Figure 1 and 2. Attendance to this site visit is mandatory for Bid acceptance.
4. **INQUIRIES:** All questions regarding this solicitation must be submitted in writing to Pete Vannerus at VannerusP@countyofmonterey.gov. Questions and their written responses will be returned to all plan holders via email. **Deadline for receipt of written questions is Friday, April 11, 2025 by 5:00 p.m., PDT.**
5. **AMENDMENT TO THE REQUEST FOR BIDS (RFB):** The Monterey County Water Resources Agency ("AGENCY") reserves the right to amend the RFB at any time using an addendum. The Bidder shall acknowledge receipt of all addenda in its bid. Should any Bidder find discrepancies in the Contract Documents, or if there should be doubt as to the true meaning of any part thereof, the Bidder shall submit a written inquiry for clarification not later than the 5th day preceding the bid opening date. No bid addenda will be issued after the 4th day preceding the bid opening date. The Agency will not be responsible for any changes to the Contract Documents given to Bidders during the bid period in any manner other than written addendum.

6. CONTRACT DOCUMENTS AVAILABLE: A complete set of the Contract Documents (“AGREEMENT”) may be obtained on the Monterey County Water Resources Agency’s website at <https://www.countyofmonterey.gov/home/showpublisheddocument/139198/638774671165769356>.
7. EXAMINATION BY BIDDERS: At the Bidder’s own expense and prior to submitting a bid, the Bidder shall thoroughly examine the Technical Specifications and Contract Documents, including the prevailing wages, contract requirements and other cost factors including federally funded grant requirements; familiarize their self with Federal, State and local laws, ordinances, permits, regulations and codes affecting the performance of the work including the cost of permits and licenses required for the work; visit the site during the pre-bid meeting and determine the local conditions which in any way affect the performance of the work, make such surveys and investigations, including investigations of subsurface or latent physical conditions at the site where work is to be performed, determine the character, quality and quantities of the work to be performed and the materials and equipment to be provided, and correlate their observations, investigations and determinations with the requirements of the Contract Documents. The submission of a bid shall be conclusive evidence that the Bidder has complied with all the requirements of this paragraph and any other requirements set forth in this bid package.
8. LICENSING REQUIREMENTS: Bids will be accepted only from contractors with a current State of California C-57 Well Drilling Contractor’s License at the time of bid opening.
9. WORK EXPERIENCE: Bidders must provide documentation of experience in the past five (5) years for well construction services similar in nature to this project. Experience shall be in the State of California. Documentation of experience shall be provided on the Contractor Experience Form. CONTRACTOR must have a minimum of three successful “Bradenhead” style application method for cement well seals projects, with references provided. Any claims filed against the contractor due to unsuccessful construction or serious issues during construction, including long project delays, well collapse during construction, etc. must be disclosed on this form.
10. CONTRACTOR REGISTRATION WITH THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (DIR): Attention is directed to the California Department of Industrial Relations (DIR) Contractor’s registration for public works projects. Pursuant to Labor Code section 1771.1(a), a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4101 of the Public Contract Code or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of Labor Code section 1771.1(a) for an unregistered contractor to submit a bid that is authorized by section 7029.1 of the Business and Professions Code or by section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Labor Code section 1725.5 at the time the contract is awarded. DIR allows Contractors and subcontractors to register online. The registration form is located on the DIR’s website: <http://www.dir.ca.gov/DLSE/dlsepublicworks.html>.
11. PREVAILING WAGE JOB: The chosen Bidder and all subcontractors performing work shall comply with California Labor Code (sections 1720, *et seq.*) governing public works, including payment of prevailing wages, payroll records and employment of apprentices. Failure to pay such prevailing wages shall subject the employer to the penalties set forth in Labor Code section 1775. The Director of the

California Department of Industrial Relations determines current prevailing wage rates or per diem wages and the general prevailing rates for holiday and overtime work in the locality in which the public work is to be performed for each craft, classification or type of work needed to execute the work, and are available from the California Department of Industrial Relations' Internet website at <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>.

12. BID SECURITY: Each bid shall be accompanied by a Bid Security in the form of a certified check, cashier's check, or a bid bond for an amount of ten percent (10%) of the total bid amount. Checks or Bid Bonds shall be made payable to the Monterey County Water Resources Agency. Bid Bonds shall be issued by an admitted corporate surety company. The Bid Security shall be held by the owner as a guarantee that the Bidder, if awarded the Contract, will execute the Contract Agreement in good faith and furnish the required payment and performance bonds and required proof of insurance within ten (10) days of the issuance of a letter conditionally awarding the contract. The Bid Security shall be given as a guarantee that, if the Contract is awarded to the Bidder, the Bidder will execute the Contract, provide any required insurance certificates, and provide payment and performance bonds required by the Contract within ten (10) days after the Bidder receives the Notice of Conditional Award letter. After ten (10) days, if the executed Agreement, proper bonds and insurance documents are not submitted by the lowest responsive Bidder, the AGENCY has the right to determine that a bid is non-responsive and contact the second lowest responsive Bidder. Each Bidder hereby agrees that, in case of his refusal or failure to provide the required payment and performance bonds, proof of insurance, or to execute the Contract, if awarded to him, in the time allotted herein, the Bid Security and money represented thereby shall remain the property of the owner as compensation for the damages the owner may suffer by reason of such failure or refusal, not to exceed the amount of the bid security. Any bid not accompanied by a bid security may be rejected. Bid Bonds shall be in the exact form as provided in the Proposal.
13. PAYMENT RETENTION: Retention of five percent (5%) of each progress payment due the CONTRACTOR will be withheld by the AGENCY pursuant to the AGREEMENT Article 3, Paragraph 3.3.
14. RIGHT TO REJECT ALL BIDS: The AGENCY reserves the right to reject any or all bids or to waive any irregularities or information in any bids or in the bidding or to re-bid the work.
15. CONTRACT AWARD: One contract may be awarded under this Request for Bidders (RFB). If the contract is awarded, AGENCY will give the successful Bidder a Notice of Award within sixty (60) days of opening the bids. The successful Bidder will provide AGENCY required payment and performance bonds and proof of insurance and execute the contract within ten (10) days. The successful Bidder will enter into a Contract with the AGENCY for the performance of the work. The AGENCY will give the CONTRACTOR a Notice-to-Proceed within ten (10) days after execution of the Contract.
16. CONTRACT TIME: The Contract Time is specified in Article 2 of the AGREEMENT.
17. CONTRACTING ADDITIONAL REQUIREMENTS: The following adherence requirements apply to this project due to received federal grant funds, and must be followed during the contracting process and throughout the project.

17.1 Davis Bacon Act

The Davis-Bacon Act requires that all contractors and subcontractors performing construction, alteration, and repair (including painting and decorating) work under federal contracts in excess of \$2,000, pay their laborers and mechanics not less than the prevailing wage and fringe benefits for the geographic location. Personnel costs include salaries, wages, and allowable incentive compensation for recipient employees (i.e., who receive W-2 forms) who spend time working on the project and are not subject to Davis Bacon.

17.2 United States Environmental Protection Agency's (EPA) Disadvantaged Business Enterprise (DBE) Program

EPA's DBE Program applies to all EPA Assistance Agreements and requires recipients who procure goods and/or services to: employ the good faith efforts; document their efforts and maintain DBE forms and other documentation from the prime contractor; and report their procurement and DBE activities even if there is not anything to report.

17.3 Build America, Buy America (BABA)

Requirements call for all the iron, steel, manufactured products, and construction materials used in the project to be produced in the United States.

17.4 American Iron and Steel (AIS)

The AIS provision requires projects to use iron and steel products that are produced in the United States for the construction, alteration, maintenance, or repair of a public water system or treatment works. Compliance with AIS requirements correspond to for iron and steel products will satisfy a subset of BABA requirements, (e.g., those pertaining to iron and steel); however, BABA also includes requirements pertaining to manufactured goods and construction materials, which must also be met. Projects that are in compliance with BABA are in compliance with AIS

END

BID FORM

CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT BID NO. 25-001

TO THE MONTEREY COUNTY WATER RESOURCES AGENCY:

1. The undersigned, as Bidder, declares that the only person or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm, or corporation; that they have carefully examined the location of the proposed work, and the Contract Documents herein referred to; that they have satisfied themselves, by personal examination of those items in the Contract Documents purporting to show a true representation of existing conditions; that they have satisfied themselves, by careful personal examination of the location of the proposed work and of the Contract Documents, that they fully understand the nature and character of the work to be done, and they propose and agree if this proposal is accepted, that they will contract with the Monterey County Water Resources Agency ("Agency") to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials and services specified in the contract in the manner and time herein prescribed, and according to the requirements of the Contract Documents as therein set forth, and that they will take in full payment therefor the following prices to wit.
2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the Agency in the form included in the Contract Documents, Sample Agreement linked in Item 6 under Instructions to Bidders Form, to perform and furnish all work as specified or indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated in this Bid and in accordance with all other terms and conditions of the Contract Documents.
3. Bidder accepts all of the terms and conditions of the Contract Documents, Appendices, and Instructions to Bidders, including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for sixty (60) days after the day of Bid opening.
4. Bidder has visited the Work Site during the pre-bid meeting and performed all tasks, research, investigation, reviews, examinations, and analysis and given notices, regarding the Project and the Work Site.
5. Bidder has given the Agency prompt written notice of all conflicts, errors, ambiguities, or discrepancies that it has discovered in or among the Contract Documents, Appendices, and As-Built Drawings and actual conditions and the written resolution thereof through Addenda issued by the Agency is acceptable to Contractor.

Bid Schedule -Well 11B02 Construction and Testing:

All Bid items, including lump sum (LS) and unit prices (LF- Linear Feet, HR-Hour), must be filled in completely.
 Bid items are described in Exhibit B- Technical Specifications.

ITEM NO.	DESCRIPTION	UNITS	EST. QTY.	UNIT PRICE	EXTENDED PRICE
1	Pre-Mobilization and Mobilization	LS	1		\$-
2	Install, Maintain and Remove Water Supply System	LS	1		\$-
3	Install, Maintain and Remove Groundwater Discharge System	LS	1		\$-
4	Drill and Install Surface Casing and Sanitary Seal as specified	LS	1		\$-
5	Drill and Install Intermediate Casing and Annular Seal as specified	LF	350		\$-
6	Drill by flooded reverse-rotary methods a maximum 17.5-inch nominal diameter pilot borehole from the bottom of the intermediate conductor to 750 feet bgs	LF	400		\$-
7	Perform Downhole Geophysical Surveys including electrical resistivity (single-point, 16-inch normal, 64-inch normal, and focused guard), natural gamma ray, temperature and deviation	LS	1		\$-
8	Temporary backfill of pilot borehole to the bottom of the intermediate casing	LF	400		
9	Ream pilot borehole from the bottom of the intermediate conductor to diameters and depths specified in final well design	LF	390		\$-
10	Perform caliper survey	LS	1		\$-
11	Furnish and Install Well Casing	LF	573		\$-
12	Furnish and Install Well Screen	LF	150		\$-
13	Furnish and Install Well Cellar	LF	10		\$-
14	Furnish and Install Filter Pack and Transition Sand	LF	315		\$-
15	Furnish and Install Annular Seal	LS	425		\$-
16	Perform initial mechanical development as specified	HR	20		\$-
17	Perform final mechanical and chemical development as specified	HR	24		\$-
18	Mobilize and install pump, equipment, and appurtenances for pumping development as specified	LS	1		\$-
19	Perform pump development by pumping and surging as specified.	HR	40		\$-
20	Perform variable-rate pumping test	LS	1		\$-
21	Perform constant-rate discharge test	LS	1		\$-

22	Collect and analyze water quality sample as specified	LS	1		\$-
23	Conduct a flow velocity (dynamic spinner-log) survey	LS	1		\$-
24	Test Pump Removal	LS	1		\$-
25	Conduct well plumbness testing by gyroscopic methods	LS	1		\$-
26	Conduct cement bond log	LS	1		\$-
27	Conduct a color video camera survey	LS	1		\$-
28	Complete final disinfection	LS	1		\$-
29	Surface completion as specified	LS	1		\$-
30	Demobilization & Cleanup	LS	1		\$-
TOTAL SCHEDULE (Items 1 through 30)					
31	Standby Time (at OWNER'S Option)	HR	0		

* Total drilled depth and length of annular seal may change after evaluation of site-specific characteristics and depth of aquifer layers encountered.

ITEMS NO. 1-31 TOTAL BASE BID: \$ _____

The following Bid Addenda have been received and are incorporated into this Base Bid: _____.

Bidder's Business Name: _____

Signature of Bidder(s): _____

Print Name: _____

Date: _____

BID SECURITY:

Accompanying this proposal is _____ in an amount equal to at
 (Insert the words "certified check," or "Bidder's Bond")
 least ten percent (10%) of the total base bid amount.

INTERESTED PRINCIPALS FORM:

The names of the persons interested in the foregoing proposal as principals are as follows:

IMPORTANT NOTICE: If bidder or other interested person is a corporation, state legal name of corporation, names of president, secretary, treasurer, and manager thereof; if a co-partnership state the true name of the firm, names of individuals composing the firm; if bidder or other interested persons is an individual, state first and last names in full.

The undersigned is licensed in accordance with provisions of the Business and Professions Code of the State of California applicable to the registration of a C-57 Water Well Drilling Contractor.

License Number: _____ . Expiration Date: _____

1. Determination of lowest responsible Bidder: In accordance with Public Contract Code section 20103.8(a). Determination of lowest Bidder will be based upon the Base Bid. The Contract will then be awarded to the Bidder submitting the lowest amount, if it is awarded. Unit pricing provided by the Bidder, if any, shall be incorporated in the Agreement, and shall be the basis for calculating any costs involving changes to the work.
2. The undersigned has checked all above figures carefully and understands that Agency will not be responsible for any errors and omissions on the part of the undersigned in making this bid.
3. It is understood that Agency reserves the right to reject any and all bids or waive any informalities or irregularities in any bids or in the bidding.
4. This bid shall remain valid and will not be withdrawn by the undersigned Bidder for a period of sixty (60) days from the date prescribed for opening of this bid without the written consent of Agency.
5. Attached hereto are the following:
 - a) List of Subcontractors;
 - b) Non-Collusion Declaration;
 - c) Workers' Compensation Certificate;
 - d) Bidder Certifications;
 - e) Contractor's Certification of Good Faith Effort to Employ Monterey Bay Area Residents;

- f) Written Plan to Recruit Monterey Bay Area residents, when applicable;
 - g) Required Bidder's security in an amount not less than 10 percent of the base bid amount; and
 - h) Acknowledgment of Addenda, if any.
6. If this bid is accepted by Agency, then the undersigned shall, within ten (10) days after receipt of the Notice of Award letter, execute and deliver to Agency (a) a Contract in the form set forth in the Contract Documents on which this bid is based, (b) a Payment Bond for Public Works, as required by the Contract Documents, (c) a Performance Bond, as similarly required, (d) an Insurance Certificate, as similarly required and (e) printout showing active registration of Contractor and all Subcontractors with the Public Works Contractor Registration (online registration at: <https://efiling.dir.ca.gov/PWCR/Search>). The undersigned will thereafter commence and complete the Work within the time required by the Contract Documents.
7. The undersigned Bidder agrees to commence Work under Contract Documents on the date established in the General Requirements and to complete all Work within the time specified in the Agreement. The undersigned Bidder acknowledges that the Agency has reserved the right to delay or modify the commencement date. The undersigned Bidder further acknowledges Agency has reserved the right to perform independent Work at the Site, the extent of such Work may not be determined until after the opening of the Bids, and that the undersigned Bidder will be required to cooperate with such other Work in accordance with the requirements of the Contract Documents.
8. The undersigned Bidder agrees that liquidated damages for failure to complete all Work in the Contract within the time specified in the Agreement shall be as set forth in the Agreement and Instructions to Bidders.
9. In the event the Bidder to whom Notice of Conditional Award letter is given fails or refuses to post the required bonds and insurance and return the executed copies of the Agreement form within ten (10) days from the date of receiving the Notice of Award letter, Agency may declare the Bidder's security forfeited as damages and contract with the second lowest Bidder.
10. Pursuant to Section 7103.5(b) of the Public Contract Code, in submitting a bid to the Agency, the Bidder offers and agrees that if the bid is accepted, it will assign to Agency all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. section 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the Bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the Bidder.

EXECUTION BY BIDDER

Signature of Bidder(s): _____

Print Name: _____

Title: _____

Business Address: _____

Date: _____

DRAFT

CONTRACTOR'S EXPERIENCE QUALIFICATIONS

The Bidder has been engaged in the contracting business, under the present business name for _____ years. Experience in work of a nature similar to that covered in the bid extends over a period of _____ years. The following contracts involving construction of agricultural irrigation groundwater supply wells or similar in the State of California have been satisfactorily completed in the last five (5) years with a minimum of three successful "Bradenhead" style cement seal application methods:

Project Location and Owner	Work Description (Project summary, scope, cost, timeline)	Contact Name	Method to Contact (Phone and/or email)

Signature: _____

Print Name: _____

Title: _____

Date: _____

LIST OF SUBCONTRACTORS

Following is the name and location of each subcontractor who will perform labor, render service or provide equipment to the general contractor in or about the construction of the work or improvement in an amount in excess of one-half of one percent (0.50%) of the total bid presented herewith; and the portion of the work to be done by each subcontractor.

- ☐ **Check this box if no subcontractors are required to be listed for work or labor to be performed or services to be rendered. Otherwise, provide all requested information below. Assembly Bill No. 44 requires name, location of business, and California contractor's license number of all subcontractors:**

Portion (Type) of Work	Amount of Bid (Dollars)	Subcontractor Name / License Number & Expiration Date	Subcontractor's Address	DIR Registration Number

Bidder's Business Name: _____

Signature: _____

Print Name: _____

Title: _____

Date: _____

NON-COLLUSION DECLARATION
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

(Public Contract Code section 7106)

The undersigned declares:

I am the _____ of _____ the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid. The Bidder has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or to refrain from bidding. The Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other Bidder. All statements contained in the bid are true. The Bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a Bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that this declaration is executed on _____ [Date],
at _____ [City], _____ [State].

Signature: _____

Print Name: _____

Title: _____

WORKER'S COMPENSATION CERTIFICATE

Pursuant to Section 1861 of the California Labor Code, I certify that I am aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code and on behalf of my firm, I will comply with such provisions before commencing the performance of the services of any contract entered into.

Bidder Name: _____

Address: _____

Signature: _____

Print Name: _____

Title: _____

Date: _____

MONTEREY COUNTY WATER RESOURCES AGENCY

BID BOND

(Public Contract Code sections: 20129, 20929)

WHEREAS the Principal has submitted the accompanying bid dated _____, to the Monterey County Water Resources Agency, for the following project: **CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT**, and

WHEREAS, Principal, as Bidder, is required to furnish a bond executed by an admitted surety in connection with said bid, to secure the timely execution of the contract and delivery of bonds and insurance certificates, in the event that the contract is awarded to the Principal.

NOW, THEREFORE, we _____ as

Principal, and _____

_____ as Surety,

are held and firmly bound unto the Monterey County Water Resources Agency in the Penal Sum of

_____ Dollars

(\$ _____), which sum is not less than ten percent (10%) of the base bid amount including all alternates of the Principal submitted to the Monterey County Water Resources Agency for the above described project, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

If the Principal is awarded the contract and, within the time and manner required under the contract documents for the above-described project, after the prescribed forms are presented to him for signature, (1) enters into a written contract in the prescribed form, in accordance with the bid, (2) files such insurance certificates with the Monterey County Water Resources Agency as may be required by said contract documents, and (3) files a performance bond and a payment bond with the Monterey County Water Resources Agency, in conformity with said contract documents, then this obligation shall be null and void; otherwise, it shall remain in full force.

Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed there under, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

If the Monterey County Water Resources Agency brings suit upon this bond and judgment is recovered, the Surety shall pay all litigation expenses incurred by the Monterey County Water Resources Agency in such suit, including attorneys' fees, court costs, expert witness fees and investigation expenses.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals this _____ day of _____ 20____, the name and corporate seal of each corporate party being hereto affixed, and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

Principal

By: _____

Print Name: _____

Title: _____

(Corporate Seal)

Surety

By: _____

Print Name: _____

Title: _____

Attach: 1) A Copy of authorization for signature for Principal, and 2) An original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

MONTEREY COUNTY WATER RESOURCES AGENCY

PAYMENT BOND

(Civil Code section 9550)

KNOW ALL MEN BY THESE PRESENTS THAT:

WHEREAS, the County of Monterey Water Resources Agency has awarded CONTRACTOR, a contract for the following project:

CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT

AND WHEREAS, CONTRACTOR is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materialmen, and other persons furnishing labor and materials on the project as provided by law;

NOW, THEREFORE, we _____ as CONTRACTOR,
and _____

_____ as Surety, are held and firmly bound unto the County of Monterey Water Resources Agency (hereinafter called "AGENCY"), and to the persons named in California Civil Code section 9100 in the penal sum of _____ for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION IS SUCH THAT:

If the CONTRACTOR or any of CONTRACTOR's heirs, executors, administrators, successors, assigns, or subcontractors, (1) fails to pay in full all of the persons named in Civil Code section 9100 with respect to any labor or materials furnished by said persons on the project described above, or (2) fails to pay in full all amounts due under California Unemployment Insurance Code with respect to work or labor performed on the project described above, or (3) fails to pay for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the CONTRACTOR and Subcontractors pursuant to Unemployment Insurance Code section 13020 with respect to such work and labor, then the Surety shall pay for the same.

Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract on the call for bids, or to the work to be performed thereunder, or the specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of said contract or the call for bids, or to the work, or to the specifications.

If suit is brought upon this bond by the AGENCY and judgment is recovered, the Surety shall pay all litigation expenses incurred by the AGENCY in such suit, including attorneys' fees, court costs, expert witness fees, and investigation expenses.

This bond inures to the benefit of any of the persons named in Civil Code section 9100, and such persons or their assigns shall have a right of action in any suit brought upon this bond, subject to any limitations set forth in Civil Code sections 3247 *et seq.* (Civil Code, Division 3, Part 4, Title 15, Chapter 7: Payment Bond for Public Works).

IN WITNESS WHEREOF the above-bounden parties have executed this instrument under several seals this _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed, and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

Principal

By: _____

Print Name: _____

Title: _____

(Corporate Seal)

Surety

By: _____

Print Name: _____

Title: _____

Attach: 1) A Copy of authorization for signature for Principal, and 2) An original or certified copy of unrevoked appointment, Power of Attorney, Attorney-in-Fact Certificate bylaws or other instrument entitling or authorizing person executing bond on behalf of Surety to do so.

MONTEREY COUNTY WATER RESOURCES AGENCY

PERFORMANCE BOND

(Public Contract Code section 20129)

THIS CONSTRUCTION PERFORMANCE BOND ("Bond") is dated _____ 20____, is in the amount of _____ ("Penal Sum"), which is 100% of the Contract Sum and is entered into by and between the parties listed below to ensure the faithful performance of the Contract identified below. This Bond consists of this page and the Bond Terms and Conditions, Paragraphs 1 through 13 attached to this page. Any singular reference to _____ ("Contractor"), _____ ("Surety"), MONTEREY COUNTY WATER RESOURCES AGENCY ("Owner" or "Agency"), or other party shall be considered plural where applicable.

CONTRACTOR:

Address:

City/State/Zip:

SURETY:

Address:

City/State/Zip:

CONTRACTOR:

Agreement for the Monterey County Water Resources Agency **CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT** located in Monterey County, California, dated _____ 20____, in the amount of _____.

CONTRACTOR AS PRINCIPAL

Company: (Corp. Seal)

SURETY

Company: (Corp. Seal)

Signature: _____ Signature: _____

Name: _____ Name: _____

Title: _____ Title: _____

BOND TERMS AND CONDITIONS

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to Owner and the State of California for the complete and proper performance of the Construction Contract, which is incorporated herein by reference.
2. If Contractor completely and properly performs all of its obligations under the Construction Contract, Surety and Contractor shall have no obligation under this Bond.
3. If there is no Owner Default, Surety's obligation under this Bond shall arise after:
 - 3.1. Owner provides Surety with written notice that Owner has declared a Contractor Default under the Construction Contract pursuant to the terms of the Construction Contract; and
 - 3.2. Owner has agreed to pay the Balance of the Contract Sum:
 - 3.2.1. To Surety in accordance with the terms of this Bond and the Construction Contract; or
 - 3.2.2. To a Contractor selected to perform the Construction Contract in accordance with the terms of this Bond and the Construction Contract.
4. When Owner has satisfied the conditions of Paragraph 3 above, Surety shall promptly (within 40 days) and at Surety's expense elect to take one of the following actions:
 - 4.1. Arrange for Contractor, with consent of Owner, to perform and complete the Construction Contract (but Owner may withhold consent, in which case the Surety must elect an option described in Paragraphs 4.2, 4.3 or 4.4 below); or
 - 4.2. Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors; provided, that Surety may not select Contractor as its agent or independent contractor or Contractor without Owner's consent; or
 - 4.3. Undertake to perform and complete the Construction Contract by obtaining bids from qualified contractors acceptable to Owner for a contract for performance and completion of the Construction Contract and, upon determination by Owner of the lowest responsive and responsible Bidder, arrange for a contract to be prepared for execution by Owner and the contractor or Contractor selected with Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract; and, if Surety's obligations defined in Paragraph 7 below, exceed the Balance of the Contract Sum, then Surety shall pay to Owner the amount of such excess; or
 - 4.4. Waive its right to perform and complete, arrange for completion, or obtain a new contractor or Contractor, and with reasonable promptness under the circumstances and, after investigation and consultation with Owner, determine in good faith its monetary obligation to Owner under Paragraph 7 below, for the performance and completion of the Construction Contract and, as soon as practicable after the amount is determined, tender payment therefor to Owner with full explanation of the payment's calculation. If Owner accepts Surety's tender under this Paragraph 4.4, Owner may still hold Surety liable for future damages then unknown or unliquidated resulting from the Contractor Default, as agreed by Owner and Surety at the time of tender. If

Owner disputes the amount of Surety's tender under this Paragraph 4.4, Owner may exercise all remedies available to it at law to enforce Surety's liability under Paragraph 7 below.

5. If Surety does not proceed as provided in Paragraph 4 above then Surety shall be deemed to be in default on this Bond ten Days after receipt of an additional written notice from Owner to Surety demanding that Surety perform its obligations under this Bond. Such Surety default shall be independent from the Contractor Default. To the extent Surety's independent default causes Owner to suffer damages, including, but not limited to, delay damages, which are different from, or in addition to (but not duplicative of) damages which Owner is entitled to receive under the Construction Contract, Surety shall also be liable for such damages.
6. At all times Owner shall be entitled to enforce any remedy available to Owner at law or under the Construction Contract including, without limitation, and by way of example only, rights to perform work, protect Work, mitigate damages, advance critical Work to mitigate schedule delay, and coordinate Work with other consultants or contractors.
7. If Surety timely elects to act under Paragraphs 4.1, 4.2 or 4.3 above and complies with its obligations under this Bond, Surety's obligations under this Bond are commensurate with the obligations of Contractor under the Construction Contract. Surety's obligations shall include, but are not limited to:
 - 7.1. The responsibilities of Contractor under the Construction Contract for completion of the Construction Contract and correction of Defective Work;
 - 7.2. The responsibilities of Contractor under the Construction Contract to pay liquidated damages; and,
 - 7.3. Additional legal, professional and delay costs resulting from Contractor Default or resulting from the actions or failure to act of the Surety under Paragraph 4 above (but excluding attorney's fees incurred to enforce this Bond).
8. If Surety timely elects to act under Paragraphs 4.1, 4.3 or 4.4 above and complies with its obligations under this Bond, Surety's monetary obligation under this Bond is limited by the amount of this Bond identified herein as the Penal Sum.
9. No right of action shall accrue on this Bond to any person or entity other than Owner or its successors or assigns.
10. Surety hereby waives notice of any change, alteration or addition to the Construction Contract or to related subcontracts, agreements, purchase orders and other obligations, including changes of time, and of any Owner action in accordance with Paragraph 6 above. Surety consents to all terms of the Construction Contract, including provisions on changes to the Contract. No extension of time, change, alteration, Modification, deletion, or addition to the Contract Documents, or of the Work (including services) required thereunder, or any Owner action in accordance with Paragraph 6 above shall release or exonerate Surety on this Bond or in any way affect the obligations of Surety on this Bond, unless such action is an Owner Default. Except in the event of an Owner Default, and to the extent Surety is damaged thereby, Surety hereby waives the provisions of California Civil Code section 2809, and any other law which either prohibits, restricts, limits or modifies in any way any obligation of a surety which is larger in amount or in any other respect more burdensome than that of the principal.

11. Any proceeding, legal or equitable, under this Bond shall be instituted in any court of competent jurisdiction where a proceeding is pending between Owner and Contractor regarding the Construction Contract, or in the courts of the County of Monterey, or in a court of competent jurisdiction in the location in which the Work is located. Communications from Owner to Surety under Paragraph 3.1 above shall be deemed to include the necessary agreements under Paragraph 3.2 above unless expressly stated otherwise.
12. All notices to Surety or Contractor shall be mailed or delivered (at the address set forth on the signature page of this Bond), and all notices to Owner shall be mailed or delivered as provided in the Agreement for the **CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT** (Agreement). Actual receipt of notice by Surety, Owner or Contractor, however accomplished, shall be sufficient compliance as of the date received at the foregoing addresses.
13. Any provision in this Bond conflicting with any statutory or regulatory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein.

DEFINITIONS:

Balance of the Contract Sum: The total amount payable by Owner to Contractor pursuant to the terms of the Construction Contract after all proper adjustments have been made under the Construction Contract, for example, deductions for progress payments made, and increases/decreases for approved Modifications to the Construction Contract.

Construction Contract: The agreement between Owner and Contractor identified on the signature page of this Bond, including all Contract Documents and changes thereto.

Contractor Default: Material failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract, limited to “default” or any other condition allowing a termination for cause as provided in the Construction Contract.

Owner Default: Material failure of Owner, which has neither been remedied nor waived, to pay Contractor progress payments due under the Construction Contract or to perform other material terms of the Construction Contract, if such failure is the cause of the asserted Contractor Default and is sufficient to justify Contractor termination of the Construction Contract.

WITHHELD CONTRACT FUNDS CERTIFICATION

PART 1 – GENERAL

1.01 Summary

- A. Public Contract Code section 22300 requires the inclusion in invitations for public agency bids and in public agency Contracts a provision which will, at the expense of the Contractor, permit the substitution of securities of equal value for any construction progress monies withheld to ensure performance under a Contract. Therefore, as the Contractor for the **CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT** Contractor hereby certifies the following:

- ☐ I do not intend to substitute securities for monies withheld and thereby avail myself of the process and rights provided in Public Contract Code section 22300.
- ☐ I do intend to exercise my option as specified in Public Contract Code section 22300 and hereby agree to the following:
 - 1. I will establish an escrow Agreement satisfactory to the Agency, with a state or federally chartered bank, which shall contain at a minimum provisions governing inter alia:
 - a. The amount of securities to be deposited;
 - b. The type of securities to be deposited, (eligible securities for deposit are described in Government Code section 16430);
 - c. The providing of powers of attorney or other documents necessary for the transfer of the securities deposited;
 - d. The terms and conditions of conversion to cash to provide funds to meet defaults by the Contractor including, but not limited to termination of the Contractor's control over the Work, stop notices filed pursuant to law, assessment of liquidated damages or other amounts to be kept or retained under the provisions of the Contract;
 - e. The decrease in value of securities on deposit; and
 - f. The termination of the escrow Agreement upon completion of the Contract and acceptance by the Agency.
 - 2. I will obtain written consent of the Surety to any such escrow Agreement; and
 - 3. I will attach to each progress payment submitted a notarized copy of escrow instructions executed by agents thereof and on bank letterhead as proof that such an account has been established. Such instructions will set forth that securities deposited shall not be withdrawn for any purpose. (with Contractor's complete and unreserved Agreement) without prior written approval by the Agency with respect to the Project herein above referenced.

Signature of Contractor

Print Name

Title

DRAFT

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

(Public Contract Code section 22300)

THIS ESCROW AGREEMENT ("Escrow Agreement") is made and entered into this _____ day of _____ 20____, by and between the MONTEREY COUNTY WATER RESOURCES AGENCY, (hereinafter "Owner") whose address is 1441 Schilling Place, North Bldg, Salinas, CA 93901, ("Contractor"), whose place of business is located at _____ Owner, as escrow agent OR [] (Name of Bank) _____ a state or federally chartered bank in the State of California, whose place of business is located at _____ ("Escrow Agent").

For the consideration hereinafter set forth, Owner, Contractor and Escrow Agent agree as follows:

1. Pursuant to California Public Contract Code section 22300, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to Contract Number _____ entered into between Owner and Contractor for **CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT** located in Monterey County, California in the amount of \$ _____ dated _____ 20____, (the "Contract"). Alternatively, on written request of Contractor, Owner shall make payments of the retention earnings directly to Escrow Agent. When Contractor deposits the securities as a substitute for Contract earnings, Escrow Agent shall notify Owner within ten days of the deposit. The market value of the securities at the time of substitution shall be at least equal to the cash amount then required to be withheld as retention under terms of Contract between Owner and Contractor. Securities shall be held in name of _____ and shall designate Contractor as the beneficial owner.
2. Owner shall make progress payments to Contractor for those funds which otherwise would be withheld from progress payments pursuant to Contract provisions, provided that Escrow Agent holds securities in form and amount specified in Paragraph 1 of this Document.
3. When Owner makes payment(s) of retention earned directly to Escrow Agent, Escrow Agent shall hold said payment(s) for the benefit of Contractor until the time that the escrow created under this Escrow Agreement is terminated. Contractor may direct the investment of the payments into securities. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when Owner pays Escrow Agent directly.
4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the escrow Account, and all expenses of Owner. Such expenses and payment terms shall be determined by Owner, Contractor, and Escrow Agent.

5. Interest earned on securities or money market accounts held in escrow and all interest earned on that interest shall be for sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to Owner.
6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Owner to Escrow Agent that Owner consents to withdrawal of amount sought to be withdrawn by Contractor.
7. Owner shall have the right to draw upon the securities in event of default by Contractor. Upon seven (7) days written notice to Escrow Agent from Owner of the default, Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by Owner.
8. Upon receipt of written notification from Owner certifying that the Contract is final and complete, and that Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.
9. Escrow Agent shall rely on written notifications from Owner and Contractor pursuant to Paragraphs 5 through 8, inclusive, of this Document and Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of securities and interest as set forth.
10. Names of persons who are authorized to give written notice or to receive written notice on behalf of Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as set forth below. Owner or Contractor may designate a different person authorized to give or receive written notice on their behalf with 48 hours written notice to the other parties listed below.

ON BEHALF OF OWNER:

Title

Name

Signature

Address

City/State/Zip Code

ON BEHALF OF CONTRACTOR:

Title

Name

Signature

Address

City/State/Zip Code

ON BEHALF OF ESCROW AGENT:

Title

Name

Signature

Address

City/State/Zip Code

IN WITNESS WHEREOF the parties have executed this Escrow Agreement by their proper officers on the date first set forth above.

ON BEHALF OF OWNER:

ON BEHALF OF CONTRACTOR:

Title

Title

Name

Name

Signature

Signature

ATTEST:

Name

Signature

ESCROW AGENT:

Escrow Agent / Title

Name

Signature

REVIEWED AS TO FORM:

Escrow Agent / Title

Name

Signature

At the time the Escrow Account is opened Owner and Contractor shall deliver to Escrow Agent a fully executed counterpart of this Document.

GUARANTY

TO: The MONTEREY COUNTY WATER RESOURCES AGENCY ("Owner"), for **CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT**.

The undersigned guarantees all construction performed on this Project and also guarantees all material and equipment incorporated therein.

Contractor hereby grants to Owner for a period of one (1) year following the date of Final Completion of the Work: Completed, or such longer period specified in Contract Documents, its unconditional warranty of the quality and adequacy of all of the Work including, without limitation, all labor, materials and equipment provided by Contractor and its Subcontractors of all tiers in connection with the Work. Final Completion shall be the date the Monterey County Water Resources Agency accepts all Work as complete.

Neither final payment nor use nor occupancy of the Work performed by the Contractor shall constitute an acceptance of Work not done in accordance with this Guaranty or relieve Contractor of liability in respect to any express warranties or responsibilities for faulty materials or workmanship. Contractor shall remedy any defects in the Work and pay for any damage resulting therefrom, which shall appear within one year, or longer if specified, from the date of Final Acceptance of the Work completed.

If within one (1) year after the date of Final Acceptance of the Work completed, or such longer period of time as may be prescribed by laws or regulations, or by the terms of Contract Documents, any Work is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, correct such Defective Work. Contractor shall respond within 24 hours after being notified in writing by Owner of any Work not in accordance with the requirements of the Contract or any defects in the Work. Contractor shall commence and prosecute with due diligence all Work necessary to fulfill the terms of this Guaranty, and to complete the Work within a reasonable period of time. Contractor shall remove any Defective Work rejected by Owner and replace it with Work that is not defective, and satisfactorily correct or remove and replace any damage to other Work or the Work of others resulting therefrom. If Contractor fails to promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the Defective Work corrected or the rejected Work removed and replaced. Contractor shall pay for all claims, costs, losses and damages caused by or resulting from such removal and replacement. Where Contractor fails to correct Defective Work, or defects are discovered outside the correction period, Owner shall have all rights and remedies granted by law.

Inspection of the Work shall not relieve Contractor of any of its obligations under the Contract Documents. Even though equipment materials, or Work required to be provided under the Contract Documents have been inspected, accepted, and estimated for payment, Contractor shall, at its own expense, replace or repair any such equipment, material, or Work found to be defective or otherwise not to comply with the requirements of the Contract Documents up to the end of the guaranty period.

All abbreviations and definitions of terms used in this Agreement shall have the meanings set forth in the Contract Documents.

The foregoing Guaranty is in addition to any other warranties of Contractor contained in the Contract Documents, and not in lieu of, any and all other liability imposed on Contractor under the Contract Documents and at law with respect to Contractor's duties, obligations, and performance under the Contract Documents. In the event of any conflict or inconsistency between the terms of this Guaranty and any warranty or obligation of the Contractor under the Contract Documents or at law, such inconsistency or conflict shall be resolved in favor of the higher level of obligation of the Contractor.

Date _____, 20____

Contractor's Name

Signature

Print name

Title

Address

City/State/Zip Code

MONTEREY COUNTY WATER RESOURCES AGENCY

IRAN CONTRACTING ACT CERTIFICATION

As specified in the INSTRUCTIONS TO BIDDERS, pursuant to Public Contract Code section 2204, each bidder submitting a Bid in which the Total Amount set forth on its Bid Schedule is \$1,000,000 or more must also submit with its bid this IRAN CONTRACTING ACT CERTIFICATION, and the failure to submit the IRAN CONTRACTING ACT CERTIFICATION may render the bid non-responsive.

The undersigned Bidder certifies as follows (check the applicable circumstance):

_____The company submitting the accompanying bid is not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code section 2203(b), and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

_____The company submitting the accompanying bid has previously received written permission from the Agency, pursuant to subdivision (c) or (d) of Public Contract Code section 2203, to submit a bid. A copy of the written permission from the Agency is submitted with the accompanying bid.

I, the person signing below, hereby certify that I am duly authorized to execute this certification on behalf of the Company identified below, and that I am aware that Public Contract Code section 2205 establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts.

Date _____, 20____

Contractor’s Name

Signature

Print name

Title

CSIP SUPPLEMENTAL WELL 11B02 REPLACEMENT PROJECT

EXHIBIT B:
TECHNICAL SPECIFICATIONS

February 2025

TECHNICAL SPECIFICATIONS

Construction, Development, and Testing of Well 11B02

Prepared for:

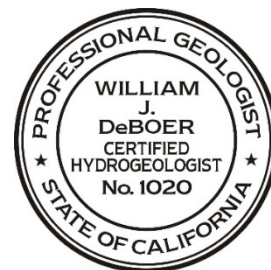


Monterey County Water Resources Agency
1441 Schilling Place - North Building
Salinas, California 93901

Prepared by:



Montgomery & Associates
1970 Broadway Avenue, Suite 225
Oakland, California 94612



A handwritten signature in black ink, appearing to read "William J. DeBoer", written over the bottom of the professional seal.

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Figure 2. Site Features
Figure 3. Preliminary Schematic for Well 11B02
Figure 4. Pump Pad Schematic

Appendices

Appendix A. Information on Existing Well 11B01 Including Well Completion Report, Color Video Survey

1 GENERAL SPECIFICATIONS

These technical specifications describe the minimum standards for completion and acceptance of the work described herein and serve as the basis for bidding. The term CONTRACTOR is used herein to refer to the drilling contractor, their subcontractors and subconsultants; the term AGENCY is used to refer to Monterey County Water Resources Agency, their designated representative, or consultant. The technical specifications establish minimum requirements to be met.

1.1 Summary of Work

The work to be conducted by CONTRACTOR includes the furnishing of all labor, material, tools, supplies, equipment, transportation, appurtenances, and services—unless specifically excluded herein—necessary to complete the installation, development and testing of Well 11B02 (Section 2) as described herein. The work site is located near Rodgers Road in Salinas, Monterey County, California.

The following figures are provided in support of these technical specifications:

- Figure 1. Site Location Map
- Figure 2. Site Features
- Figure 3. Preliminary Schematic for Well 11B02
- Figure 4. Pump Pad Schematic

The pilot borehole shall be advanced to a depth 750 feet below ground surface (bgs) to confirm site geology and perform downhole geophysical surveys. AGENCY will provide CONTRACTOR a final well design for construction within 48 hours of receipt of the downhole geophysical results and formation sieve results.

1.2 Performance Requirements

These performance requirements are intended to objectively measure the suitability of the well for the intended purpose. CONTRACTOR shall be solely responsible for meeting the performance requirements for plumbness (Section 2.23), cement bond log (Section 2.24), and video survey (Section 2.25).

If the well does not meet these performance requirements CONTRACTOR shall, at their own expense, do all work necessary to cause the well to meet the performance requirements. If the well does not meet performance requirements after such efforts, AGENCY may reject the well. If rejected, CONTRACTOR will be responsible for appropriate destruction of the rejected well and installation of a new well at their sole expense.

1.3 Performance Objectives

AGENCY endeavors to achieve the following outcomes for Well 11B02: CONTRACTOR is specifically not responsible for meeting these outcomes.

Sand Content: Sand content of pumped water shall be measured at the design capacity of the well unless otherwise determined by AGENCY, and shall be measured with a centrifugal (“Rossum”) sand sampler in accordance with ANSI/AWWA A100-20. The target average sand content of water pumped over any five (5)-minute period is equal to or less than five (5) parts per million (ppm) over the first 30 minutes of pumping, and thereafter equal to or less than one (1) ppm.

Turbidity: Turbidity of pumped water shall be measured at design capacity of the well unless otherwise determined by AGENCY. The target turbidity of pumped water is equal to or less than five (5) NTU.

Yield: The target sustainable design capacity of the well is 2,000 gallons per minute.

While not responsible for meeting these outcomes, AGENCY intends to work collaboratively with CONTRACTOR to achieve these goals. CONTRACTOR is encouraged to discuss any worries regarding the final well design or other aspects of the project if they are concerned with achieving these desired outcomes. Similarly, CONTRACTOR is encouraged to support AGENCY with additional work to achieve these goals. Any additional work and cost impacts shall be coordinated with and approved by AGENCY in writing prior to being performed.

1.4 Site Conditions

Well 11B02 will be located approximately 55 feet to the east of existing Well 11B01, as shown on Figure 2. The well site encompasses private property on Rodgers Road to which the AGENCY has been granted both a long-term well easement and a temporary construction easement, both of which are shown on Figure 2, with a rectangular working footprint approximately 100 feet by 150 feet. The AGENCY will survey and mark the extent of both easements prior to start of work.

The site is accessible by heading South on Rodgers Road from Espinosa Road. Rodgers Road makes a sharp turn to the west and continues for approximately 0.8 mile before turning to the southwest. The Well 11B02 location is approximately a quarter mile past this bend to the southwest. Rodgers Road is a public right-of-way and must remain open to traffic during construction. It is not a through street; CONTRACTOR will need to enter and exist as described via Rodgers Road by way of Espinosa Road. The site is currently composed of existing well 11B01 and its related infrastructure.

CONTRACTOR shall keep all work activities, materials, and equipment within the work area as surveyed in the field by the AGENCY, unless otherwise approved by the AGENCY. No work activities, material storage, or equipment staging shall occur outside of the easement.

Overhead electrical power lines are located near the work site. CONTRACTOR shall maintain clearances in accordance with applicable laws and utility company requirements.

CONTRACTOR shall be responsible for notifying Underground Service Alert (USA) at 800-642-2444 prior to any digging. The CONTRACTOR shall bear all responsibility and cost for determining the location of all utilities found on the work site prior to any digging.

The well site and CONTRACTOR work area is within actively farmed, privately owned agricultural fields, actively used private farm roads, privately owned and operated irrigation and electrical equipment, and public utility facilities. CONTRACTOR shall fully cooperate with farm personnel to allow access to private lands and facilities and utility personnel to allow access to public utilities within and adjacent to the work site and staging area for their respective essential duties.

CONTRACTOR shall be responsible for protecting existing facilities from damage caused by the work. CONTRACTOR shall be responsible for repairing any damage to such facilities caused by CONTRACTOR's personnel or equipment. Privately grown crops exist immediately adjacent the work area and the CONTRACTOR shall be responsible for reimbursing the grower for any damage to crops, soils, or structures caused by CONTRACTOR's personnel, equipment, or performance of work occurring outside of the easement.

1.5 Schedule and Working Hours

A project baseline schedule is required prior to beginning mobilization to the site, and updates to the baseline schedule are due the first Friday of each month. Project 3-week look-ahead schedules are due weekly on Fridays.

In general, site activities shall progress chronologically in the order they are presented in these technical specifications. Deviations from this order require prior AGENCY approval.

To the extent feasible, construction activities shall be limited to daytime hours between 0800 and 1800, Monday through Friday. However, 24-hour operations are required during certain aspects of the installation process. Table 1 outlines the critical scope components and the anticipated work schedule of each.

Table 1. Anticipated Work Schedule

Bid Item No(s).	Activity	Anticipated Schedule		
		Daytime Hours, Mon through Fri ^a	24-hour Work Required ^b	Weekends allowable
1	Pre-mobilization and Mobilization	X		
2	Water Supply System	X		
3	Groundwater Discharge System	X		
4	Surface Casing and Sanitary Seal	X		
5	Intermediate Casing and Annular Seal		X	
6-8	Pilot Borehole Drilling, Geophysical Surveys, Backfill		X	X
9 and 10	Borehole Reaming and Caliper Survey		X	X
11-14	Furnish and Install Casing, Screen, Filter Pack and Transition Sands		X	X
15	Furnish and Install Annular Seal		X	
16	Initial Mechanical Development		X	X
17	Final Mechanical/Chemical Development ^c	X		
18 and 19	Test Pump Installation and Pumping Development	X		
20 and 21	Variable Rate Pumping Test and Constant Rate Discharge Test		X	
22 and 23	Dynamic Spinner Survey and Groundwater Sampling		X	
24	Test Pump Removal	X		
25-27	Gyroscopic, Cement Bond Log and Video Surveys	X		
28	Well Disinfection	X		
29	Surface Completion and Pump Pad Installation	X		
30	Demobilization and Cleanup	X		

Notes:

^aExcludes Agency holidays unless specifically allowed

^bIncludes weekends when necessary

^c24-hour schedule and/or weekend days may be allowable with Agency approval

Deviations from this schedule require prior AGENCY approval. Daytime work on Saturday or Sunday may be permitted when requested by CONTRACTOR and approved by AGENCY and is limited to the hours between 0800 and 1800.

1.6 Standards

CONTRACTOR shall follow procedures described in *State of California Water Well Standards, Bulletin No. 74-81* (December 1981) and *Bulletin No. 74-90* (June 1991), including any later supplements or revisions; Monterey County Ordinance Chapter 15.08 relating to water wells; California Environmental Quality Act (CEQA) mitigation requirements; and other California state agency guidance, which are incorporated herein by reference.

Materials used in this work must have applicable NSF/ANSI Standard 60 (Drinking Water Treatment Chemicals) and/or NSF/ANSI Standard 61 (Drinking Water System Components)

certifications, including but not limited to drilling fluid additives, disinfection chemicals, well steel and filter pack sands.

1.7 Contractor Responsibilities

CONTRACTOR shall submit applications, pay requisite fees, and obtain and comply with all appropriate permits required to complete the scope of work.

CONTRACTOR shall confine drilling and construction operations to AGENCY's easement.

CONTRACTOR is fully responsible for maintaining security of all work areas at all times. CONTRACTOR shall take such measures as are necessary to prevent access of unauthorized persons or animals onto the site. Such measures shall include fencing, posting of signs, temporary closure of excavations, or other means, including hiring private security as needed, and shall be maintained throughout the course of work. All barriers shall be in accordance with applicable site safety standards.

CONTRACTOR shall contain and dispose of construction-related trash, maintain an organized and safe work site, provide adequate sanitation facilities, and ensure vehicles leaving unpaved sites do not track mud onto public rights-of-way.

CONTRACTOR shall provide all necessary equipment, tools, and appurtenances for the timely completion of the work. CONTRACTOR's equipment shall be in complete and safe operating condition and shall be appropriately maintained and operated during the project.

CONTRACTOR shall be solely responsible for the condition of their equipment and shall maintain an inventory of necessary spare parts for the timely repair of equipment in the event of a failure or breakdown. No payment shall be made for standby time or equipment rental caused by a breakdown or failure of CONTRACTOR's equipment.

CONTRACTOR shall remove trackable mud, cuttings, sand, grout, and other materials from undercarriages, tires, and other surfaces of equipment prior to moving equipment on or across public roads and pathways. CONTRACTOR shall immediately clean public rights-of-way.

CONTRACTOR shall maintain copies of all project permits at the construction site.

CONTRACTOR shall at all times maintain the borehole in a sanitary manner and prevent potential entry of pests or contaminants.

1.8 Qualifications and Quality Assurance

CONTRACTOR shall hold a valid Class C-57 California CONTRACTOR's License.

1.9 Submittals

A list of required submittals is included with each Bid Item. In addition, CONTRACTOR shall be responsible for receiving acceptance for all required equipment and information referenced elsewhere in these technical specifications. All submittals required from CONTRACTOR shall be considered part of the scope of work. Submittals shall be reviewed and comments provided by AGENCY within 5 business days of receipt. All submittals are subject to acceptance by AGENCY; submittal requirements shall be satisfied upon acceptance.

All submittals shall be emailed to bdeboer@elmontgomery.com as 1 complete PDF per submittal. Submittal name shall be clearly included in the subject line; 1 submittal per email.

1.10 Sanitation

CONTRACTOR shall provide and maintain adequate sanitation facilities appropriate to the number of personnel working on the site.

1.11 Construction Water and Power

Water used for drilling purposes will be sourced from the existing Well 11B01, located adjacent to the proposed Well 11B02 location (Figure 2). CONTRACTOR will be responsible for conveyance of water to point of use in accordance with Section 2.2 of these technical specifications. Appendix A provides details for the existing Well 11B01.

CONTRACTOR shall provide all necessary power for completion of the work scope through temporary means such as generators.

1.12 Discharge of Generated Groundwater

Discharges shall be applied to the farm field south of the easement away from the well site in a manner that does not cause erosion or ponding (i.e. sprinklers, diffuser). CONTRACTOR shall collect water quality samples from the discharge water to ensure compliance. The turbidity of the water at the point of discharge shall not exceed 100 NTU, sand content shall not exceed the 2% maximum, and total residual chlorine concentration as measured in the field shall not exceed 0.1 milligram per liter (mg/L) unless otherwise approved by AGENCY.

Prior to beginning development, CONTRACTOR shall mobilize to the site a treatment system capable of treating water generated and discharged during well development activities to comply with turbidity, sand content and chlorine levels allowed. Conveyance of discharged water to the designated point shall be achieved using closed pipe; adequate energy dissipation, and erosion control measures shall be installed at the discharge point.

It is imperative that no delays occur during well development while still meeting the discharge requirements. CONTRACTOR shall mobilize a treatment system and sufficient on-site storage so that the well development process can progress continuously without delays due to discharge exceedances, lack of storage, or otherwise.

When turbidity of development water falls below 100 NTU with a sand content 2% or below and residual chlorine is less than 0.1 mg/L, development water can bypass the treatment system and be discharged directly to point of discharge.

1.13 Drilling Fluids Management

CONTRACTOR is responsible for the containment, hauling, and legal disposal of drilling fluids from the site.

1.14 Drilling Cuttings Management

Drill cuttings shall be in a managed pile within the construction area on site and will be disposed of by AGENCY at a later time.

1.15 Records

CONTRACTOR shall collect the measurements and keep records described in this section, as well as any required measurements or records described elsewhere in these Technical Specifications. All work conducted by CONTRACTOR to execute these Technical Specifications shall be recorded in the driller daily log and/or on approved forms. Requirements for field measurements and records include those listed below.

Driller's Daily Log: International Association of Drilling Contractors or American Petroleum Institute (API) standard daily logs, or similar, shall be maintained and used to record all site activities. Any hourly items shown in the Bid Schedule shall be clearly identified for quantity verification. The daily logs shall indicate personnel present; shifts worked; depths drilled, reamed, developed, or bailed; accurate depths, thicknesses, and nature of the strata penetrated; drilling rates; water levels; length of tremie pipe installed in well; volume and depth intervals cemented or sealed with bentonite; downtime due to equipment issues; and results obtained from any and all caliper surveys, borehole geophysical logs, etc.

Drilling Fluids and Makeup Water: CONTRACTOR shall obtain regular measurements of drilling fluid properties, which shall be monitored at a minimum frequency of every 4 circulation hours or every 100-foot drilled interval, whichever is more frequent, when drilling fluids are being circulated. All drilling fluid samples shall be obtained at the flow line where fluid enters and recirculates down the borehole. Records of drilling fluid properties shall be in accordance with the requirements of applicable sections.

Borehole Assembly: The measured length of each section of the drill pipe assembly shall be recorded and correlated with the depth drilled below ground surface. The outside diameter and type of each bit, reamer, hole opener, sub, drill pipe, etc., shall be recorded. The outside diameter of each bit, reamer, and hole opener must be measured on site and demonstrated to have an outside diameter within 5% of what is specified in the final well design prior to use, unless AGENCY approves otherwise.

Miscellaneous: Records shall include any notable event or activity including accidents, violations, visitors, weather conditions, etc.

CONTRACTOR shall maintain records on a regular basis and in a legible, professional format.

1.16 Noise Control

Sound walls are not required for this project. General best practice noise suppression efforts shall be implemented at all times to minimize disturbance to nearby residents, workers, and the general public. The work site shall be managed and arranged to minimize noise to the extent practicable, including use of mufflers, shielding, and by placing noise-producing equipment away from sensitive receptors, as feasible.

1.17 Spills, Leaks, and Releases

CONTRACTOR shall not cause the release of any hazardous or nuisance substances to the environment and shall use plastic sheeting or oil absorbent mats to protect the well site from spills of hydraulic oil, fuel, lubricants, or coolants from the drilling and support equipment. If a release occurs, CONTRACTOR shall contain and properly dispose of affected media and shall be responsible for all costs associated with remedial or corrective actions to mitigate the release. CONTRACTOR shall contact the relevant regulatory agency/agencies for appropriate reporting.

1.18 Foreign and Lost Material Downhole

The placement of any foreign material down the hole must be approved by AGENCY. This includes, but is not limited to, all drilling materials and fluids.

CONTRACTOR shall be responsible for all consequences of material lost down the hole. Every attempt shall be made by CONTRACTOR to retrieve lost material downhole within a timeframe and to the satisfaction of AGENCY. If the borehole becomes damaged as a result of this investigation in the opinion of AGENCY, CONTRACTOR shall properly abandon the borehole in accordance with permitting requirements and drill another borehole adjacent to the abandoned borehole at no additional expense to AGENCY.

1.19 Project Closeout

After completion of the work required in these specifications, CONTRACTOR shall remove all debris, waste, trash, and unused materials or supplies; shall remove all signs of temporary construction facilities such as temporary work areas, temporary structures, and stockpiles of materials; and shall restore the site, as nearly as possible, to its original condition. Final cleanup shall be completed per Section 2.28.

Upon completion of the scope of work and submittal of all specified submittals, AGENCY will perform final site inspections prior to release of final payment.

1.20 Payment

Costs for this project shall be defined by the completed and accepted Bid Schedule. The completed Bid Schedule shall be submitted by CONTRACTOR according to instruction from AGENCY.

Payment will be made according to the line items in the Bid Schedule based on the actual unit quantities expended as determined by AGENCY. Payment for lump sum items shall be made only upon satisfactory completion of the entire task.

2 WELL 11B02 CONSTRUCTION, DEVELOPMENT AND TESTING

In general, site activities shall progress chronologically in the order they are presented in these technical specifications. Deviations from this order require prior AGENCY approval.

The Well 11B02 location is shown on Figure 2, the preliminary well design is shown on Figure 3, and Appendix A contains supporting documentation for the existing site Well 11B01 (to be retained).

2.1 Pre-Mobilization and Mobilization (Bid Item 1)

CONTRACTOR shall mobilize and set up all material and equipment, and perform all labor required to perform the scope of work. Equipment needed for the first 30 days of work shall be on site at start of the work.

2.1.1 Submittals

The following submittals are required before beginning any site activities:

- Project baseline schedule (updates due the first Friday of each month)
- Project 3-week look-ahead schedule (updates due weekly on Fridays)
- Site Plan including a scale drawing with proposed site layout
- Well installation permit
- Other applicable permits, including but not limited to Underground Service Alert ticket(s)

Note the well installation permit will be provided to CONTRACTOR by AGENCY.

2.1.2 Materials

Well 11B02 shall be drilled by the flooded reverse-rotary drilling method with drilling equipment of sufficient capacity to drill the hole required by these specifications. Drilling equipment including, but not limited to, mast and drawworks, air compressors, drilling fluid pumps, drill pipe, etc., must be of requisite size, sufficient capacity, and suitable condition to drill and set casing to the anticipated depths.

The drill rig utilized must have the ability to fully lift and land the anticipated casing loads without the use of float plugs or other similar methods. All drill pipe must utilize threaded flush or upset tool joints, or equal, as approved by AGENCY.

2.1.3 Execution

CONTRACTOR's drilling equipment, temporary facilities, and operations shall be within the construction limits of the site. CONTRACTOR shall set up work facilities in a neat and orderly manner within the designated area.

2.2 Water Supply System (Bid Item 2)

As stated in Section 1.11, existing site Well 11B01 is to be used for construction water supply. Details regarding the condition of this well are provided in Appendix A. This well is not currently equipped with a pump. CONTRACTOR shall furnish all material and equipment and provide all labor necessary to extract water for project needs without causing project delays. CONTRACTOR shall supply and install a temporary pump, motor, cable, drop pipe, pump discharge head and all other accessories required to provide and establish the water supply. This bid item includes system installation, maintenance, and removal.

2.2.1 Submittals

The following submittals are applicable to this section:

- Pump information including type, depth, and capacity
- Temporary water storage plan
- Sand filtration methods

2.2.2 Materials

The following materials are applicable to this section:

- Temporary pump and all necessary accessories for pump installation and function including motor, cable, drop pipe etc.
- In-line digital flow meter registering in units of gallons per minute, together with a totalizer which reads in units of gallons, and capable of measuring pump discharge within plus or minus 5% of true flow rate
- Sand filtration mechanism or device

2.2.3 Execution

CONTRACTOR shall furnish and install a temporary pump, sand filtration, and above ground storage sufficient to provide necessary water for drilling activities. It is imperative that the system provides enough water to prevent any delays in the project.

CONTRACTOR shall take such measures as are necessary to prevent access to animals, debris, and other foreign objects into the well, and shall fully remove all installed material from the well at the conclusion of its use. Details of Section 1.18 additionally apply to Well 11B01.

2.3 Groundwater Discharge System (Bid Item 3)

CONTRACTOR shall furnish all material and equipment necessary to discharge pumped groundwater to the farm field south of the easement using sprinklers or AGENCY approved equivalent in a manner that does not cause erosion or ponding. CONTRACTOR is responsible for installing removing a system adequate to discharge flows between 400 and 3,000 gallons per minute. This bid item includes installation, maintenance, and removal of the system.

2.3.1 Submittals

- Discharge treatment system details including product data, drawings and dimensions
- Discharge Piping:
 - Size and length to conduct not less than 3,000 gpm water to discharge location and be approved by AGENCY
 - Include an in-line meter with 6-digit, straight reading totalizer, registering in units of gallons, together with a rate of flow indicator dial, which reads in units of gallons per minute and capable of measuring pump discharge within plus or minus 5% of true flow rate.
- Pumped Groundwater Discharge:
 - Tank(s): Provide sufficient size and construction to accommodate development discharge.
 - Pump(s): Provide sufficient size and horsepower to continuously pump stored discharge water as required from tank(s) to discharge point.
 - Layout: Diagram describing discharge layout, number and type of sprinklers (including flow and nozzle size)

2.3.2 Execution

CONTRACTOR is responsible for ensuring that no erosion or nuisance conditions result from pumping discharges. The discharge piping shall be installed to the satisfaction of AGENCY.

Coordinate with AGENCY to install and operate sprinkler system sufficient to handle discharge needs in a way that does not cause issues for the farming operation to the south or the AGENCY easement. CONTRACTOR is responsible for making sure the capacity of the system is sufficient to prevent delays in development and pump testing stages. CONTRACTOR is responsible for

maintaining an operational sprinkler discharge system and will not be compensated for any downtime resulting from an insufficient system.

2.4 Surface Casing and Sanitary Seal (Bid Item 4)

CONTRACTOR shall furnish all materials and equipment, and perform all labor required to install a permanent surface casing and place the sanitary seal. Surface casing borehole shall be advanced using bucket auger or similar methods.

2.4.1 Submittals

The following submittals are applicable to this section:

- Mill Certificate for Control Casing
- Type and content of proposed sealing material
- Concrete weight tickets upon delivery to the job site
- Valid welder certifications appropriate to the standards and positions required for casing installation

2.4.2 Materials

Spiral welded mild steel well casing material shall be composed of new material conforming to ASTM A-139 specifications. The surface casing shall have a minimum outside diameter of 42 inches, wall thickness of not less than ½ inch and length of not less than 50 feet. Unless otherwise approved by AGENCY and except for end pieces, all sections of casing shall be a minimum length of 20 feet.

Sealing material shall consist of batch plant mixed 10.3 sack sand cement grout consisting of a mixture of ASTM C150 Type II cement, sand, and water. Accelerators, retardants, bentonite, and other additives shall not be used without prior approval by AGENCY.

2.4.3 Methods

CONTRACTOR shall drill a minimum 54-inch diameter borehole to a minimum depth of 50 feet bgs. The borehole shall be sufficiently plumb and of sufficient diameter that the surface casing can be installed plumb, and with a minimum annular thickness of 3 inches around the entire circumference of the surface casing.

CONTRACTOR shall collect and preserve 1 set of drill cutting samples at 10-foot intervals during the drilling of the control casing borehole. Samples shall be placed in 1-gallon, heavy

weight, resealable plastic bags and labeled with the sample depth interval. Collected samples shall be stored in a manner to prevent breakage or loss.

CONTRACTOR shall be solely responsible for determining depth and diameter of surface seal required to ensure stability during drilling, to prevent upward or downward seepage of water or drilling fluids outside the surface casing, to prevent bypass of the surface seal by drilling fluids, and/or to prevent soil erosion beneath the drilling rig. CONTRACTOR shall be solely responsible for any damage caused by an insufficient or ineffective seal, or any additional work required to remedy any adverse condition created by an inadequate surface seal.

2.4.4 Placement

CONTRACTOR shall install the surface casing plumb and centered in the borehole.

Casing joints shall be watertight and shall be appropriate for the material used so that the resulting joint possesses the same structural integrity as the casing itself. Unless otherwise approved by AGENCY, all casing joints shall be welded in accordance with AWWA C206 and American Welding Society Standards, conducted by an AWS Certified Welder with valid and current certification for metal arc-welding on mild steel in the horizontal lap and horizontal groove weld positions.

Centering guides shall be no less than 2 inches wide, welded to the conductor casing, and include a minimum of 2 sets, each consisting of 4 guides (8 in total) equally spaced circumferentially around the casing. Guides shall be composed of the same material as the casing to which they are affixed and placed 5 feet from the top and bottom of the conductor casing.

Sealing material shall be placed in the presence of AGENCY and in compliance with permit requirements. CONTRACTOR shall notify AGENCY a minimum of 48 hours in advance of planned sealing material placement.

Sealing material shall be placed using the tremie method from the bottom of the borehole and shall be completed in a manner that prevents freefall, bridging, or separation. Placement shall be completed in 1 continuous operation from the bottom of the borehole to ground surface.

Upon installation of the sealing material and unless approved otherwise by AGENCY, CONTRACTOR shall not operate heavy equipment on the site for a minimum of 48 hours. The 48-hour curing period shall not be regarded as standby time.

Fluids displaced during placement of the conductor casing and sanitary seal operations shall be appropriately managed.

2.5 Intermediate Casing and Annular Seal (Bid Item 5)

CONTRACTOR shall furnish all materials and equipment, and perform all labor required to install a permanent intermediate casing and place the annular seal. Conductor casing annular seal shall be installed using the Bradenhead (squeeze cementing) method.

2.5.1 Submittals

The following submittals are applicable to this section:

- Mill Certificate for intermediate casing
- Type and content of proposed sealing material
- Concrete weight tickets upon delivery to the job site
- Name and qualifications of the proposed cement pumping subcontractor
- Valid welder certifications appropriate to the standards and positions required for casing installation
- The name and qualifications of the firm proposed for completing caliper survey
- Two field hardcopies of the caliper survey, which shall be also provided in a digital data format—both as PDF and LAS files—and shall have a vertical scale of fifty (50) feet per inch and horizontal scale appropriate to the log type and response values

2.5.2 Borehole Drilling

CONTRACTOR shall drill a 36-inch diameter borehole from the bottom of the surface casing (Section 2.4) to a depth of 350 feet below ground surface. The borehole shall be sufficiently plumb and of sufficient diameter that the intermediate casing can be installed plumb and meet the permit requirements for annular thickness.

CONTRACTOR shall collect and preserve 1 set of drill cutting samples at 10-foot intervals during the drilling of the intermediate borehole. Samples shall be placed in 1-gallon, heavy weight, resealable plastic bags and labeled with the sample depth interval. Collected samples shall be stored in a manner to prevent breakage or loss.

2.5.3 Caliper Survey

The CONTRACTOR shall furnish professional logging services for the caliper survey of the final reamed borehole.

The caliper tool must be of sufficient arm capacity to measure borehole diameters to 48 inches for the entire length of the reamed borehole. The caliper survey shall include calculations of the theoretical annular volumes required.

If the caliper survey shows the borehole to be less than the specified diameter(s) at any point or the final borehole is less than the specified depth, the borehole shall be re-reamed and re-surveyed at the CONTRACTOR's expense.

2.5.4 Intermediate Casing

Mild steel well casing material shall be composed of new material conforming to ASTM A-139 specifications. The intermediate casing shall have a minimum inside diameter of 28 inches with wall thickness of not less than 3/8 inch. Unless otherwise approved by AGENCY and except for end pieces, all sections of casing shall be a minimum length of 20 feet.

CONTRACTOR shall install the intermediate casing plumb and centered in the conductor casing borehole. The conductor casing shall be suspended in tension from the surface throughout installation.

Casing joints shall be watertight and shall be appropriate for the material used so that the resulting joint possesses the same structural integrity as the casing itself. Unless approved otherwise by AGENCY, all casing joints shall be welded in accordance with AWWA C206 and American Welding Society Standards, conducted by an AWS Certified Welder with valid and current certification for metal arc-welding on mild steel in the horizontal lap and horizontal groove weld positions.

Centering guides shall be no less than 2 inches wide, welded to the conductor casing and include a minimum of 2 sets, each consisting of 4 guides (8 in total) equally spaced circumferentially around the casing. Guides shall be composed of the same material as the casing to which they are affixed and placed 5 feet from the top and bottom of the conductor casing.

2.5.5 Cementing

Sealing material shall consist of API Class G cement grout or AGENCY approved equivalent. Sealing material shall be placed in the presence of AGENCY and in compliance with permit requirements. CONTRACTOR shall notify AGENCY a minimum of 48 hours in advance of planned sealing material placement.

Sealing material shall be placed by Bradenhead (squeeze cementing) methods as follows:

- Install tremie pipe inside the intermediate casing

- Seal the top of the intermediate conductor casing by appropriate means, install a pressure gauge and ensure fittings and welds are airtight prior to pumping cement.
- Pump cement in one continuous operation.
- After cement is witnessed in the returns, close the valve and verify system pressure using the pressure gauge. Maintain system pressure for not less than 2 hours.
- Pull sufficient tremie so that the bottom portion is out of cement. Do not remove all tremie.
- The annular seal shall be allowed to cure undisturbed for 24 hours prior to continuing work.

Placement shall be completed in one continuous operation from the bottom of the borehole to ground surface. The cement grout shall be pumped until it reaches ground surface for the entire circumference of the intermediate casing and borehole.

Fluids displaced during placement of the intermediate casing and sanitary seal operations shall be appropriately managed.

2.6 Pilot Borehole Drilling (Bid Item 6)

CONTRACTOR shall furnish all material and equipment and perform all labor to drill a maximum 17.5-inch diameter pilot borehole from the bottom of the intermediate casing to a minimum depth of 750 feet bgs, unless otherwise directed by AGENCY. CONTRACTOR shall furnish all material and equipment and provide all labor necessary to temporarily backfill the pilot borehole while design is being finalized.

2.6.1 Submittals

The following submittals are applicable to this section:

- Description of the drilling and fluid system including the types of fluid to be used, weights, viscosities, sand and solids contents, water loss control, and the name of the drilling fluid supplier
- Name and qualifications of the on-call Drilling Fluid (Mud) Engineer
- Formation samples every 10 feet (bagged)
- Sieve results of up to 5 formation samples, selected by AGENCY

2.6.2 Methods

The pilot borehole shall be drilled using the flooded reverse-rotary method. Although a maximum diameter of 17.5 inches is specified, CONTRACTOR shall determine the appropriate borehole diameter based on their preference, provided it is of sufficient diameter to complete downhole geophysical surveys required (see Section 2.7). A directional survey shall be made every 100 feet the pilot is advanced using a mechanical drift indicator. If the directional survey shows deviation from the plumb line, CONTRACTOR shall make efforts to prevent ongoing deviation.

2.6.3 Formation Sampling

CONTRACTOR shall collect and preserve 1 set of drill cutting samples at 10-foot intervals during the drilling of the pilot borehole. Samples shall be placed in 1-gallon, heavy weight, re-sealable plastic bags and labeled with the sample depth interval. Collected samples shall be stored in a manner to prevent breakage or loss. The method of collection shall be approved by AGENCY prior to collection. The sample collection system must allow for collection of representative lithology (e.g., sluice box). Samples shall not be collected off the shale shaker or using a mesh strainer without prior approval by AGENCY.

2.6.4 Drilling Fluids

Potable water shall be used to mix a bentonite-based drilling fluid designed to adequately maintain bore wall, minimize invasion of drilling fluid into the formation, and permit recovery of representative samples of cuttings. Soda ash may be used to increase pH of the water used to mix drilling fluids. The drilling fluid shall possess such characteristics that it can be readily removed from the borehole during development of the well. **Drilling with clear water alone shall not be permitted.**

Drilling fluid additives must be standard materials used in the water well drilling industry and must be used in accordance with the manufacturer's recommendations. The methods and materials that CONTRACTOR would utilize in the event of borehole stability problems and/or loss of circulation must be approved by AGENCY and on site at the start of drilling. In no case shall materials be added to the drilling fluid system or drill hole without prior approval of such materials by AGENCY. Addition of unapproved materials to the drill hole or fluid system may be cause for rejection of the well.

Excavation of pits on site for drilling fluids are prohibited, and surface containment (i.e., tanks and/or bins) of drilling fluids are required.

It is the responsibility of CONTRACTOR to ensure that sizing and configuration of the fluid system is adequate to meet the drilling fluid properties outlined below. In the event CONTRACTOR cannot attain these properties, drilling shall be halted and the mud replaced at no cost to AGENCY.

Proper control of the drilling fluid must remain in compliance with these specifications and CONTRACTOR may be required to retain or employ an experienced, qualified Drilling Fluid (Mud) Engineer to supervise and maintain drilling fluid characteristics at no cost to AGENCY. If at any time during borehole drilling, drilling fluid properties are not within the ranges specified below, CONTRACTOR shall cease drilling and shall circulate and condition the drilling fluid until it falls within the specified ranges.

AGENCY may measure drilling fluid properties periodically during borehole drilling. These measurements are intended to independently verify and check CONTRACTOR's measurements, and do not relieve CONTRACTOR of the responsibility to measure drilling fluid properties.

CONTRACTOR must provide at the drilling site at all times Standard API measurement devices in proper working order, along with qualified personnel to operate them, to determine the following drilling fluid properties:

- Drilling fluid weight
- Drilling fluid viscosity
- Drilling fluid sand content
- 30-minute water loss/filter cake

CONTRACTOR must additionally include appropriate devices for evaluating the make-up water suitability, including but not limited to:

- pH test strips or other reliable pH monitoring device
- Meter or test strips for checking water hardness

The properties of the drilling fluid leaving the circulation tank must be recorded by CONTRACTOR at a minimum of 4-hour intervals or every 50 feet of drilling, whichever is more frequent and whenever conditions appear to change or problems arise. The drilling fluid shall be within the following ranges unless otherwise approved by AGENCY:

- Weight – maximum of 9.6 pounds per gallon
- Marsh Funnel Viscosity – minimum of 28 and maximum of 38 seconds per quart
- Sand Content – maximum of 1% by volume

- Water Loss and Filter Cake – maximum 15 cubic centimeters (cc) with maximum thickness of 2/32 inches

CONTRACTOR shall conduct all tests and shall maintain a log showing the drilling fluid properties set forth herein including date, time, depth, viscosity, drilling fluid weight, sand content, water loss, and filter cake thickness and any other pertinent comments.

All measurements for depths shall be referenced to existing ground surface at the well site. All drilling records shall be delivered to AGENCY upon completion of the well.

In addition, CONTRACTOR shall keep an accurate record of the types and quantities of all drilling fluid additives, including time used and mixture, Marsh funnel viscosity before and after use, and the rate, times, and duration of makeup water injection. Rate of makeup water injection shall also be recorded when drilling fluids are not being circulated so that an evaluation can be made of the ability of the borehole to accept water.

2.7 Downhole Geophysical Surveys (Bid Item 7)

CONTRACTOR shall furnish all material and equipment and provide all labor to perform a geophysical log of the pilot borehole. CONTRACTOR shall employ **Pacific Surveys, LLC**, for this activity, unless otherwise approved by AGENCY. The geophysical log shall include measurements of the following:

- Spontaneous potential
- Electrical resistivity (single-point, 16-inch normal, 64-inch normal, and focused guard)
- Natural gamma ray
- Temperature
- Deviation

2.7.1 Submittals

The following submittals are applicable to this section:

- Two field hardcopies of the geophysical log. The geophysical log shall also be provided in a digital data format, both as PDF and data files. Geophysical logs shall have a vertical scale of 50 feet per inch and horizontal scale appropriate to the log type and response values.

2.7.2 Execution

CONTRACTOR shall ensure that the pilot borehole is properly conditioned by circulating drilling fluids in preparation for geophysical logging, and that the pilot borehole is continually filled with fluid during logging operations.

Standby time will not be paid for additional cleaning and conditioning of the pilot borehole to enable logging operations to proceed.

If the logging probe fails to descend to the desired depth, CONTRACTOR, at their own expense, shall condition the pilot borehole to permit the logging probe to descend to the bottom of the hole.

2.8 Pilot Borehole Temporary Backfill (Bid Item 8)

CONTRACTOR shall furnish all material and equipment to temporarily backfill the pilot borehole to maintain borehole stability during final well design and material procurement.

2.8.1 Submittals

The following submittals are applicable to this section:

- Origin, type, and quantity of backfill material

2.8.2 Materials

Temporary backfill material shall consist of washed pea gravel or AGENCY approved equivalent. Crushed gravel will not be accepted.

2.8.3 Execution

Immediately following geophysical surveys (Section 2.7), the CONTRACTOR shall backfill the pilot borehole with approved backfill material using the tremie method from the bottom of the borehole to not less than the bottom depth of the intermediate casing. The tremie pipe shall be installed within 10 feet of the bottom of the borehole before placement of backfill material begins and shall be withdrawn as the backfill material is placed. The tremie pipe shall be no more than 40 feet above the top of the backfill material during placement. Backfill material shall be hydraulically placed with the circulating drilling fluid using 1 or more positive displacement pumps. Under no circumstances shall the backfill material be allowed to free fall. The CONTRACTOR shall exercise care to avoid creating a fluid density inversion during placement of the backfill material.

The CONTRACTOR shall not demobilize or reposition the drilling rig while waiting for the final well design.

2.9 Borehole Reaming (Bid Item 9)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to ream the pilot borehole by flooded reverse-rotary methods to diameters shown on the final well design. **Reaming shall not begin until all well casing, filter pack, and all other well materials and equipment necessary to construct a completed well are on site and have been approved by the AGENCY, excluding sanitary sealing material.**

2.9.1 Submittals

Submittals are not required for this section.

2.9.2 Drilling Fluids

Drilling fluids shall be consistent with Section 2.6.4.

2.9.3 Execution

After completion of the drilling of the pilot borehole, ream by the flooded reverse-rotary methods to final diameters as specified in the final well design. Reaming shall continue on a continuous 24-hour per day, 7-day per week basis without interruption. Any significant delays in reaming may be cause for rejection of the well.

2.10 Caliper Survey (Bid Item 10)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to conduct a caliper survey of the final reamed borehole. CONTRACTOR shall employ **Pacific Surveys, LLC**, for this activity, unless otherwise approved by AGENCY.

2.10.1 Submittals

The following submittals are applicable to this section:

- Two field hardcopies of the caliper and alignment logs. The logs shall also be provided in a digital data format, both as PDF and data files. Logs shall have a vertical scale of 50 feet per inch and horizontal scale appropriate to the log type and response values.

2.10.2 Execution

The CONTRACTOR shall furnish professional logging services for the caliper survey of the final reamed borehole.

The caliper tool must be of sufficient arm capacity to measure borehole diameters to 48 inches for the entire length of the reamed borehole. The caliper survey shall include calculations of the theoretical annular volumes required for completion of the well.

If the caliper survey shows the reamed borehole to be less than the specified diameter(s) at any point or the final borehole is less than the specified depth, the borehole shall be re-reamed and re-surveyed at the CONTRACTOR's expense.

If the caliper survey shows excessive washouts necessitating the purchase and transport of additional filter sands beyond those mention in Section 2.12, CONTRACTOR shall immediately procure and deliver to the site the additionally required materials at their expense.

2.11 Furnish and Install Well Casing (Bid Item 11), Screen (Bid Item 12), and Cellar (Bid Item 13)

CONTRACTOR shall furnish all materials and work necessary to manufacture, deliver, and install well casing, screens, and cellar per the final well design and in accordance with these technical specifications.

CONTRACTOR shall provide all necessary equipment and labor to transport well materials to the site for review and acceptance by AGENCY. If CONTRACTOR determines there to be insufficient space on the site for the staging of this material, CONTRACTOR shall, at their expense, arrange for a secure temporary staging area within 25 miles of the site.

2.11.1 Submittals

The following submittals are applicable to this section:

- Applicable Mill certificate(s) before delivering the casing, screen, and centralizers to the job site
- Casing schedule for well casing materials, welding collars, and centralizers
- Valid welder certifications appropriate to the standards and positions required for casing installation

2.11.2 Materials

Material specifications are detailed individually in the sections below.

2.11.2.1 Well Casing

Well casing (collared) shall be spiral welded Type 304L stainless steel composed of new material manufactured and purchased from **Roscoe Moss Company**. The well casing shall have an inside diameter of 16 inches and wall thickness of not less than 3/8 inch.

2.11.2.2 Well Screen

Well screen (collared) shall be Type 304L stainless steel composed of new material manufactured in accordance with ASTM A-778 and be purchased from **Roscoe Moss Company**. The well screen shall have an inside diameter of 16 inches. The well screen shall be continuous slot wire wrap designed and manufactured to withstand tensile and collapse pressures appropriate to the final well design. An aperture size of 0.060 inch can be assumed for bidding purposes.

2.11.2.3 Well Cellar

Well cellar (collared) shall be spiral welded with a semi-elliptical head Type 304L stainless steel composed of new material manufactured in accordance with ASTM A-778 and be purchased from **Roscoe Moss Company**. The well casing shall have an inside diameter of 16 inches and wall thickness of not less than 3/8 inch.

2.11.2.4 Centralizers and Spacers

Centralizers and spacers shall be Type 304L stainless steel and be purchased from **Roscoe Moss Company**. Centralizers shall be no less than 2 inches wide, composed of the same material as the casing to which they are affixed and placed at intervals of not more than 50 feet within the screened casing and at intervals of not more than 80 feet within the blank casing. Centralizers shall be designed to have minimum bore wall contact of 12 inches and extend from the casing not less than 2.5 inches. For screened intervals, C-type centralizers shall be affixed to collars, not in the screen.

2.11.3 Drilling Fluids

CONTRACTOR shall condition drilling fluids prior to placement of the well materials until it has the following properties:

- Weight – maximum of 9.1 pounds per gallon
- Marsh Funnel Viscosity – maximum of 30 seconds per quart
- Sand Content – maximum of 1% by volume

Maintain circulation of drilling fluid until casing is set unless CONTRACTOR judges circulation to be unnecessary.

2.11.4 Placement

A clean construction tremie pipe shall be installed prior to the well casing and screen to facilitate placement the annular materials.

The well casing and screen shall be installed such that a minimum 2-inch spacing is maintained between the well casing and feed tube, between casing/tubes and the bore wall, and between casing/tube and the conductor casing.

The casing and screen shall be plumb and centered in the hole. The well casing and screen assembly, when installed to the specified depth, shall extend 3 feet above ground surface. All field joints shall be properly lap welded during installation with a minimum of 2 passes per circumference. Centralizers shall be welded to the casing, each set consisting of 4 centralizers equally spaced circumferentially around the casing, placed at intervals of not more than 50 feet in the screened section and 80 feet in the blank section.

The casing shall be suspended in tension from the surface by means of an appropriate hanger or clamp. The bottom of the casing shall be at a sufficient distance above the bottom of the reamed hole to ensure that the casing is not supported from the bottom of the hole. The use of float plugs to land and set casing will not be permitted. Fluids displaced during placement on the well casing shall be controlled and discharged to temporary storage tanks for off-site disposal.

If, for any reason, the casing cannot be landed in the correct position or at a depth acceptable to AGENCY, or any of the casings or screens collapse prior to well completion, CONTRACTOR shall construct another well adjacent to the original location and complete this well in accordance with the specifications at no additional cost to AGENCY. The first hole shall be destroyed by sealing in accordance with AGENCY requirements pertaining to proper well destruction. All work required to be repeated, and all additional materials, labor, and equipment required, shall be furnished at the expense of CONTRACTOR and no claim for additional compensation shall be made or be allowed, except as specifically provided herein.

To avoid collapse or deformation of casing, all annular materials, including cement, filter pack, fill materials, and fluids used during installation of annular materials, shall be installed in proper increments and sequence. CONTRACTOR shall document and verify the proper increments to use to prevent casing damage and shall, at its own expense, replace any damaged casing and repair, or remedy, any other associated damage to the well.

The top of the casing shall be provided with secured caps at all times when personnel are not on site.

Field welding shall be conducted by a certified welder in accordance with AWWA C206 and American Welding Society Standards, conducted by an AWS Certified Welder with valid and current certification for metal arc-welding on ASTM A778 and A1024 base metals in the horizontal lap and horizontal groove weld positions.

The following field welding procedures shall apply:

- A length shall be lowered into the well with the collar facing upward.
- The plain end of the following length shall be inserted in the collar. True contact of the 2 joints must be verified by observation through the alignment holes.
- Join by a continuous full fillet weld of thickness equal to thickness of coupling. Two passes shall be applied. Alignment holes shall be completely filled by welding.
- Upon completion of welding, remove weld splatter, flux, slag, and burrs.

It is CONTRACTOR's responsibility to ensure that the appropriate type and size of electrodes are used for the various types of casing materials.

2.12 Furnish and Install Filter Pack and Transition Sands (Bid Item 14)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to install filter media and transition sand as described within these specifications.

2.12.1 Submittals

The following submittals are applicable to this section:

- A gradation description, sample, and sieve analysis of the filter pack media
- Sodium hypochlorite safety data sheet
- Copies of weigh tickets for filter material delivered on site
- Copies of weight tickets for transition sand material delivered on site

2.12.2 Materials

Filter pack material shall be **P.W. Gillibrand** Raptor Filter Sands. RFS 4 (8 by 16) gradation can be assumed for purposes of bidding. Filter pack materials shall be hard, water worn, at least 90% silica, and washed clean of silt, dirt, and foreign matter. Crushed gravel will not be accepted. Filter pack materials shall be well rounded with a high sphericity and graded. CONTRACTOR

shall submit a sieve analysis of a recent production run from the manufacture for confirmation of gradation.

The filter pack materials shall be contained in super sacs and, if stockpiled at the well site, shall be protected, and kept free of all foreign matter.

CONTRACTOR shall procure not less than 110% of the calculated filter sand volume required for well construction based on the final well design, as rounded upwards to the nearest super sac. Any necessary filter pack in excess of 110% of that required by the final design is the CONTRACTOR's responsibility. Items which may result in this scenario include but are not limited to CONTRACTOR use of a larger than agreed upon diameter reaming bit, borehole washout, or excessive over-drill.

Sodium hypochlorite: liquid sodium hypochlorite solution; regular household bleach may not be used. No fragranced products or other products with additives will be allowed. Sodium hypochlorite shall be provided in the original sealed container. Sodium hypochlorite shall be recently purchased and properly stored to ensure the concentration of the solution has not degraded.

Transition sand shall be #60 mesh plaster sands and consist of sound, non-reactive material. Crushed aggregate will not be accepted. The sand shall be free of vegetative matter.

2.12.3 Placement

Filter pack, as specified, shall be installed in the annular space between the reamed hole and the well screen through a construction tremie pipe. Place filter pack by hydraulically pumping through the tremie pipe from the bottom of the annulus upward to the depth specified by AGENCY. The placement shall proceed without interruption until complete. During placement of the filter pack in the annulus, liquid sodium hypochlorite shall be added at a uniform rate of 1 gallon of 12.5% solution per cubic yard of filter pack. A circulating system with 1 or more positive displacement pumps utilizing fresh water shall be used for the purpose of introducing the filter pack into the annulus. Under no circumstances will the filter pack be allowed to freefall down into the annular space.

An AGENCY-approved device shall be used to measure the level of the filter pack during placement.

Following placement of the filter pack to the depth specified in the final well design, a dual swab tool shall be used across the well screen to settle the filter pack. CONTRACTOR shall measure the level of the filter pack and continue swab activities until no measurable change in filter pack

level is noted. Additional filter pack shall be added as needed to comply with the final well design.

A 10-foot layer of #60 mesh plaster sand shall be installed immediately above the top of the filter pack to separate the annular seal from the filter pack.

CONTRACTOR shall contain and appropriately manage displaced fluids during the well installation process.

2.13 Furnish and Install Annular Seal (Bid Item 15)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to install an annular seal in accordance with AGENCY permit conditions, and DWR Bulletin No. 74-81 and its supplement Bulletin 74-90, including any later supplements or revisions. The annular seal shall be installed from a depth immediately above the top of the transition sand to surface.

2.13.1 Submittals

The following submittals are applicable to this section:

- Type and content of proposed sealing material
- Copy of the concrete weight ticket upon delivery to the job site; concrete weight tickets shall include the origin and type of sealing material used

2.13.2 Materials

Sealing material shall consist of batch plant mixed 10.3 sack sand cement grout consisting of a mixture of ASTM C150, Type II cement, sand, and water. Accelerators, retardants, bentonite, and other additives shall not be used without prior approval by the AGENCY. Fly ash is not allowed to be included in the sand cement grout.

2.13.3 Execution

Sealing material shall be placed in the presence of AGENCY, and in compliance with permit requirements. CONTRACTOR shall notify AGENCY inspector a minimum of 24 hours in advance of planned sealing material placement, or as otherwise required by the well permit.

Sealing material shall be placed using the tremie method from the bottom of the borehole and shall be completed in a manner that prevents freefall, bridging, or separation. Placement shall be

completed in 1 continuous operation from the bottom of the borehole to the top. The cement pump shall be capable of pumping the sand cement grout under pressure to the specified depth.

Upon installation of the sealing material and unless approved otherwise by AGENCY, CONTRACTOR shall not operate heavy equipment on the site for a minimum of 24 hours. The 24-hour curing period shall not be regarded as standby time.

CONTRACTOR shall contain and appropriately manage displaced fluids during well sealing operations.

2.14 Initial Mechanical Well Development (Bid Item 16)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to perform initial well development by means of open-ended airlifting and swabbing with airlifting. Activities conducted under this bid item shall be completed with the drilling rig prior to its removal from the site. **Work shall continue on a 24-hour schedule until complete.**

2.14.1 Submittals

The following submittals are applicable to this section:

- Well development progress logs

2.14.2 Materials

The following materials are applicable to this section:

1. Dual Swab Tooling:
 - a) Two swabs separated by not more than 10 feet of slotted pipe with sufficient slots and appropriate air compressor capacity to air lift at a rate of 250 gallons per minute (gpm)
 - b) Outside diameter of flanges not more than 1 inch smaller than inside diameter of screen section of well
 - c) Eductor Pipe, fitted with airline to allow airlift pumping

2.14.3 Execution

Static water level shall be recorded at the beginning of each shift.

CONTRACTOR shall begin initial development not less than 24 hours and no more than 48 hours after placing annular seal. If not begun within 48 hours, additional swab and airlift

development may be required—without additional cost to the AGENCY—for the length of time between 48 hours since placing annular seal and time that development was initiated, in addition to normal development time.

Install open-ended drill pipe with intake in the cellar interval and begin airlifting. This shall be done to remove drilling muds and solids from the well and shall be completed for a minimum of 4 hours or until drilling fluid has been removed from the well (visual).

Following open-ended airlifting, the well shall be developed by swabbing and airlifting with the dual swab tool from the top of the screen to the bottom, then from the bottom of the screen to the top. The screen shall be swabbed in 20-foot sections while simultaneously airlifting. Each 20-foot screen section shall be worked until successive swabbing produces little change in color and discharge is relatively clear, estimated to be approximately 30 minutes for each 20-foot interval of screen. This period may be extended or shortened by AGENCY based on condition of discharge water. Upon completion of an interval, move to the next 20-foot interval and repeat until all screened intervals have been swabbed.

The well cellar shall be cleaned of accumulated material using open-ended airlifting if necessary following initial mechanical development.

CONTRACTOR shall be compensated according to the hourly well development bid item for work conducted in well screen sections only. The time required to move tooling through the unperforated well-casing section(s) shall not be considered development and therefore will not be paid for by AGENCY.

2.15 Final Mechanical and Chemical Well Development (Bid Item 17)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to develop the well by mechanical and chemical development. This activity shall commence within 5 calendar days after completion of initial mechanical well development (Bid Item 16) and be conducted during daytime work hours Monday through Friday (Table 1), unless otherwise approved by AGENCY.

2.15.1 Submittals

The following submittals are applicable to this section:

- Well development progress logs

2.15.2 Materials

Materials shall be consistent with Section 2.14.2 and also include the following:

- Sodium Hypochlorite: Liquid sodium hypochlorite solution in accordance with the latest revision of AWWA C654. Sodium Hypochlorite shall be used in a concentration of 1,000 parts per million (ppm) to the volume of water in the screened sections and annulus. Regular household bleach may not be used. No fragranced products or other products with additives will be allowed. Sodium hypochlorite shall be provided in the original sealed container. Sodium hypochlorite shall be recently purchased and properly stored to ensure the concentration of the solution has not degraded.
- Chemical Dispersant: Nu-Well 220 (NW-220, manufactured by Johnson Screens) or AquaClear PFD (manufactured by Baroid Industrial Drilling Products), or approved equal, shall be used in a concentration of 1 gallon per 500 gallons of water in the screen sections.

2.15.3 Execution

The well shall be developed by swabbing and airlifting from the top of the screen to the bottom using the dual swab tool. The screen shall be swabbed in 20-foot sections while simultaneously airlifting. Each 20-foot screen section shall be worked until successive swabbing produces little change in color and discharge is relatively clear, estimated to be approximately 30 minutes for each 20-foot interval of screen. This period may be extended or shortened by AGENCY based on the condition of discharge water. Upon completion of an interval, move to the next 20-foot interval and repeat until all screened intervals have been swabbed.

After reaching the bottom of the well, a chlorine solution shall be swabbed into the screen sections from the bottom to the top as the dual swab tool is removed at a rate of 15 minutes for each 20 feet of screen. Chlorine solution shall be sufficient to achieve a concentration of 1,000 ppm throughout the well screen.

Upon reaching the uppermost screen section, the development tools shall be left in the well for a minimum period of 12 hours. Screen sections shall then be developed in 20-foot intervals by swabbing and simultaneous airlifting at a rate of 30 minutes for each 20 feet of screen. This process shall be repeated throughout the entire length of all screened zones, beginning at the top and working down to the bottom.

After reaching bottom, the development tools shall be utilized to inject NW-220, or approved equal, incrementally into the screen sections. The total amount of NW-220 introduced to the well shall be equal to the quantity necessary to achieve a NW-220 concentration of 1 gallon per 500 gallons of water in the screened section(s). The NW-220 solution shall be swabbed at a rate of 15 minutes for each 20 feet of screen into each progressively shallower screen section as piping is removed.

Upon reaching the uppermost screen section, the development tools shall be left in the well for a minimum period of 24 hours. After this period, the airlifting and swabbing development procedure at a rate of 15 minutes for each 20 feet of screen described in the preceding paragraphs shall be repeated to bottom and then back to the top again.

The well cellar shall be cleaned of accumulated material using open-ended airlifting if necessary following mechanical development.

CONTRACTOR shall be compensated according to the hourly well development bid item for work conducted in well screen sections only. The time required to move tooling through the unperforated well casing section(s) shall not be considered development and therefore will not be paid for by AGENCY.

2.16 Test Pump Installation (Bid Item 18)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to install a test pump and associated discharge piping as specified below.

2.16.1 Submittals

The following submittals are applicable to this section:

- Test pump details including pump intake depth, bowl specifics including number of stages and diameter, pump column diameter, and all other applicable dimensions.

2.16.2 Materials

The following materials are applicable to this section:

1. Vertical Turbine Pump installed to a depth of 400 feet bgs (subject to change by AGENCY:
 - a) Capable of producing up to 3,000 gpm from the well
 - b) Do not equip with a foot valve, which would prevent backspin and interfere with surging.
2. In-line digital flow meter registering in units of gallons per minute, together with a totalizer which reads in units of gallons, and capable of measuring pump discharge within plus or minus 5% of true flow rate.

3. Throttling Valve: Suitable to accurately regulate pumping rates throughout required range
4. Rossum Sand Tester to measure amount of sand produced from well
5. Access Tubes:
 - a) One 1-inch inside diameter with perforations 10 feet along the bottom and including an end cap, adequate for insertion of water level sensing devices into well before, during, and after test pumping. Must allow free passage of pressure transducers that are 0.75-inch diameter and approximately 8 inches long.
 - b) One 2-inch inside diameter Spinner/Flow Profile Access Tube terminating below the pump intake and adequate for insertion of the profile tooling.
 - c) Securely fastened to pump column assembly

2.16.3 Execution

CONTRACTOR shall install in the well a variable-speed turbine pump to complete pumping development. The pump shall not be equipped with a foot valve or other backflow preventers. Pump intake shall be set at a depth of 400 feet bgs unless otherwise directed by AGENCY.

2.17 Pumping Development (Bid Item 19)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to develop the well by means of pumping and surging.

2.17.1 Submittals

The following submittals are applicable to this section:

- Well development progress logs

2.17.2 Execution

Static water level shall be recorded at the beginning of each day of well development before any water has been moved.

Development pumping shall be conducted by alternately pumping (turning the pump on) and surging (turning the pump off and letting the water in the column pipe fall back into the well) at a specific flow rate, until pumping and surging at that flow rate produces visibly clear water and until no significant improvements in specific capacity are observed, as determined by AGENCY. Surging operations shall include 3 surges after 60 minutes of continuous pumping unless otherwise approved by AGENCY. Pump the well at an initial rate not to exceed 400 gpm or as low as is feasible. Discharge rate shall be incrementally increased up to 3,000 gpm, or as directed by AGENCY.

Development pumping shall continue for a minimum of 40 hours unless otherwise approved by AGENCY. Flow rate, water level, and sand content shall be recorded at intervals of 15 minutes after the start of pumping following a surge cycle.

At the conclusion of development pumping, CONTRACTOR shall determine the required settings to obtain the flow rates for well and aquifer testing, as determined by AGENCY, based on well development records.

2.18 Variable Rate Pumping Test (Bid Item 20)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to complete a variable rate pumping test as described herein. CONTRACTOR shall also keep records on the type of pumping equipment used including engines, drive components, bowls, lines, and shafts. CONTRACTOR shall keep records of operation of equipment during the test including engine revolutions per minute and horsepower, fuel use, and other essential information that will be useful in designing a pump system.

2.18.1 Submittals

The following submittals are applicable to this section:

- Pumping test logs

2.18.2 Materials

The temporary pump used for well development shall be used for performance testing unless other pumps and equipment are necessary to satisfy the requirements of this specification or as determined by AGENCY.

2.18.3 Execution

A variable rate pumping (step drawdown) test shall be conducted following well development activities and shall be scheduled to begin when the water level has recovered to static groundwater level as determined by AGENCY.

The well shall be tested at rates of approximately $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ times the design capacity of 2,000 gpm, or as directed by AGENCY. The variable rate pumping test shall be conducted for a total duration of 10 hours (120 minutes each step). CONTRACTOR shall operate the pump and change the discharge rate as directed by AGENCY. An electric water level meter will be furnished by AGENCY. Sand content measurement shall be recorded at 1-hour intervals by CONTRACTOR using a Rossum sand tester. CONTRACTOR shall be responsible for

maintaining the desired pump operation schedule. If necessary, adjustments in the pumping rate shall be made using an in-line butterfly valve, not engine throttle. **CONTRACTOR shall not make adjustments to the pumping rate after the first 2 minutes of pumping at each rate without approval from AGENCY.**

Measure depth to water at the following intervals, unless otherwise specified by AGENCY:

1. 1 minute to 10 minutes: Measure at 1-minute intervals
2. 10 minutes to 20 minutes: Measure at 2-minute intervals
3. 20 minutes to 30 minutes: Measure at 5-minute intervals
4. 30 minutes to 60 minutes: Measure at 10-minute intervals
5. 60 minutes to 120 minutes: Measure at 15-minute intervals

After the pump is stopped, the temporary test pump shall remain in the well undisturbed, unless otherwise specified by AGENCY. CONTRACTOR shall not be responsible for monitoring groundwater levels during recovery period.

2.19 Constant Rate Discharge Test (Bid Item 21)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to complete a constant rate pumping test as described herein. CONTRACTOR shall also keep records on the type of pumping equipment used including engines, drive components, bowls, lines, and shafts. CONTRACTOR shall keep records of operation of equipment during the test including engine revolutions per minute and horsepower, fuel use, and other essential information that may be useful in designing a pump system.

2.19.1 Submittals

The following submittals are applicable to this section:

- Pumping test logs

2.19.2 Materials

The temporary pump used for well development shall be used for performance testing unless other pumps and equipment are necessary to satisfy the requirements of this specification or as determined by AGENCY.

CONTRACTOR is responsible to ensure that no erosion or nuisance conditions result from pumping discharges. The discharge piping shall be installed to the satisfaction of AGENCY.

2.19.3 Execution

A constant rate discharge test shall be conducted by pumping the well at the design rate of 2,000 gpm for a period of not less than 24 hours, or less if AGENCY terminates the test. CONTRACTOR shall ensure the pumping rate remains within plus or minus 5% of the target rate. If necessary, adjustments to the pumping rate shall be made using an in-line butterfly valve, not engine throttle. **CONTRACTOR shall not make adjustments to the pumping rate after the first 2 minutes of pumping without approval from AGENCY.**

CONTRACTOR shall test and record sand content using a Rossum sand tester every hour of pumping. AGENCY may require CONTRACTOR to do additional redevelopment work if the hourly accumulation of sand exceeds 2 ppm at any point during the test. The turbidity of pumped water shall additionally not exceed 5 NTU.

Measure depth to water at the following intervals, unless otherwise specified by AGENCY:

1. 1 minute to 10 minutes: Measure at 1-minute intervals
2. 10 minutes to 20 minutes: Measure at 2-minute intervals
3. 20 minutes to 30 minutes: Measure at 5-minute intervals
4. 30 minutes to 60 minutes: Measure at 10-minute intervals
5. 60 minutes to 90 minutes: Measure at 15-minute intervals
6. 90 minutes to end of test: Measure at 30-minute intervals

2.19.4 Recovery Monitoring

After the pump is stopped, the temporary test pump shall remain in the well undisturbed for the full recovery period of 24 hours, or as specified by AGENCY. CONTRACTOR shall not be responsible for monitoring groundwater levels during recovery period.

2.19.5 Aborted Test

Whenever continuous pumping at a uniform rate has been specified, failure of pumping operation for a period greater than 1% of the elapsed pumping time shall require suspension of the test until the water level in the pumped well has recovered to its original level. Recovery shall be considered complete after the well has been allowed to rest for a period at least equal to the elapsed pumping time of the aborted test, except if any 3 successive water level measurements spaced at least 20 minutes apart show no further rise in the water level in the pumped well. Under this exception, the test may be resumed immediately. AGENCY shall be the sole judge as to whether this latter condition exists. CONTRACTOR will not be paid for any

retesting done if the specified time or recovery requirements of AGENCY for the aborted test are not first met. These tests are invalid and will not be construed as a test.

2.20 Groundwater Quality Sampling and Analysis (Bid Item 22)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to collect a groundwater sample and submit for laboratory analysis all the constituents listed in Table 2.

2.20.1 Submittals

The following submittals are applicable to this section:

- Water quality laboratory test results

2.20.2 Execution

Toward the end of the constant rate discharge test but prior to conducting the spinner survey (Bid Item 23), collect and submit a water quality test specifying an “AG waiver panel” to the Monterey County Consolidated Chemistry Laboratory located at the County of Monterey Health Department.

Submit the sample under appropriate chain-of-custody to the AGENCY approved laboratory per Table 2:

Table 2. Summary of Analyses

Ag Waiver Panel Analyses
Calcium – Method ASTM6919-09
Chloride – Method EPA300.0 REV
Conductivity – Method SM2510 B-201
Magnesium – Method ASTM6919-09
Nitrate Nitrogen – Method EPA300.0
NO3 (Nitrate) – Method EPA300.0 REV
pH (Laboratory) – Method SM4500H+ B-2
Potassium – Method ASTM6919-09
SO4 (Sulfate) – Method EPA300.0 REV
Sodium – Method ASTM6919-09
Total Alkalinity (as CaCO3) – Method SM2320 B-201
Total Dissolved Solids (TDS) – Method SM2540 C-201

Water quality results shall be submitted to the AGENCY as a single comprehensive report.

2.21 Dynamic Spinner Survey (Bid Item 23)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to conduct a dynamic spinner survey of the well near the end of constant-rate discharge test but only after collection of the water quality sample. CONTRACTOR shall employ **Pacific Surveys, LLC**, for this activity, unless otherwise approved by AGENCY.

2.21.1 Submittals

The following submittals are applicable to this section:

- Two field hardcopies of the spinner/flow profile log. The log shall also be provided in a digital data format, both as PDF and LAS files. Spinner/flow profile shall have a vertical scale of 50 feet per inch and horizontal scale appropriate to the log type and response values.

2.21.2 Execution

CONTRACTOR shall furnish professional logging services for the dynamic spinner survey. CONTRACTOR is responsible for completing the survey before the end of the constant rate discharge test. AGENCY is not responsible for costs incurred by CONTRACTOR to extend pumping period beyond 24 hours to accommodate a complete spinner survey.

2.22 Test Pump Removal (Bid Item 24)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to remove the well pump and associated discharge piping. CONTRACTOR shall not remove pump from well until performance testing, including recovery monitoring, is complete.

2.22.1 Submittals

Submittals are not required for this section.

2.22.2 Execution

The test pump may be removed when all of the following conditions are met:

1. The laboratory confirms receipt of all collected samples as specified in Table 2.
2. AGENCY receives and approves results of the dynamic spinner survey (Bid Item 23).
3. AGENCY determines recovery monitoring of groundwater level is complete.

When all of the above conditions are met, CONTRACTOR may remove the well pump and associated discharge piping.

2.23 Gyroscopic Survey (Bid Item 25)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to complete a gyroscopic survey to determine the plumbness and alignment of the well casing after the well has been completed and before its acceptance. CONTRACTOR shall employ **Pacific Surveys, LLC**, for this activity, unless otherwise approved by AGENCY.

The completed well shall be sufficiently plumb and straight so that there will be no interference with installation, alignment, operation, or future removal of the permanent well pump.

2.23.1 Submittals

The following submittals are applicable to this section:

- Two field hardcopies of the gyroscopic survey. The gyroscopic survey results shall also be provided in a digital data format, both as PDF and LAS files. Alignment/deviation shall have a vertical scale of 50 feet per inch and horizontal scale appropriate to the log type and response values.

2.23.2 Execution

CONTRACTOR shall furnish professional logging services for the gyroscopic survey and shall comply with AWWA A-100 standards. The maximum allowable horizontal deviation (drift) of the well from the vertical shall not exceed two thirds of the smallest inside diameter of that part of the well being tested per 100 feet of depth. AGENCY may reject the well if the above tolerances are exceeded.

Plumbness testing shall be conducted by lowering the plumbness tool into the well from the ground surface to the full well depth. Measurements shall include station depth, inclination, azimuth, true vertical depth, departures, and plane of closure (displacement). Measurements shall be made every 10 feet from ground surface to the topmost well screen section. Measurements shall be made every 50 feet from the topmost well screen section to the full depth.

2.24 Cement Bond Log Survey (Bid Item 26)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to complete a cement bond log survey through the full depth of the conductor casing (Section 2.5)

before its acceptance. CONTRACTOR shall employ **Pacific Surveys, LLC**, for this activity, unless otherwise approved by AGENCY.

2.24.1 Submittals

The following submittals are applicable to this section:

- Two field hardcopies of the survey. The survey results shall also be provided in a digital data format, both as PDF and LAS files.

2.24.2 Execution

CONTRACTOR shall furnish professional logging services for the cement bond log survey. Survey results must demonstrate a complete seal throughout the entire interval surveyed, which is free of voids or other defects.

2.25 Color Video Camera Survey (Bid Item 27)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to complete a color video of the well prior to acceptance of the well by AGENCY. CONTRACTOR shall employ **Pacific Surveys, LLC**, for this activity, unless otherwise approved by AGENCY. The color video survey shall verify that the well is constructed in accordance with the final well design and that the well is free of structural defects and clear of all debris throughout the entire depth of the well prior to acceptance of the well by AGENCY. If any defects or debris are found, CONTRACTOR shall make repairs to, or remove debris from, the well as necessary, prior to acceptance of the well by AGENCY.

2.25.1 Submittals

The following submittals are applicable to this section:

- One copy of the video survey in AVI format and 2 copies of the written report

2.25.2 Execution

If necessary, airlift the well clean of debris prior to conducting the survey, then allow the well to remain idle for at least 24 hours. Introduce sufficient quantity of clear water into well prior to—and if necessary during—survey to produce clear viewing conditions. Run a dynamic vertical downhole view video from top of well to the bottom of well at a speed not exceeding 30 feet per minute. Video shall be in color, with side-scan capabilities, and include an automatic depth indicator to the nearest 0.1 foot.

If survey fails to produce a clear picture of internal casing condition, introduce clear, potable water and conduct survey to AGENCY's satisfaction until a clear video is obtained.

2.26 Well Disinfection (Bid Item 28)

CONTRACTOR shall furnish all material and equipment and provide all labor necessary to disinfect the well.

2.26.1 Submittals

The following submittals are applicable to this section:

- Disinfection products and procedures
- Name and qualifications of the proposed water quality laboratory
- Water quality laboratory test results

2.26.2 Materials

Liquid sodium hypochlorite solution shall be used in accordance with the latest revision of AWWA C654. Regular household bleach may not be used. No fragranced products or other products with additives will be allowed. Sodium hypochlorite shall be provided in the original sealed container. Sodium hypochlorite shall be recently purchased and properly stored to ensure the concentration of the solution has not degraded.

2.26.3 Execution

Disinfect well prior to final capping by adding sufficient sodium hypochlorite solution to achieve 100 ppm chlorine concentration in the well. The well shall be disinfected by swabbing the chlorine solution into the water column using a surge block, nylon brush or other AGENCY-approved method.

No sooner than 24 hours after disinfection, the residual concentration in the well shall be measured and a sample collected by CONTRACTOR using a disposable bailer. CONTRACTOR shall submit the sample to an appropriate laboratory for analysis of total coliform (presence/absence), fecal coliform (presence/absence) and heterotrophic plate count.

A non-detect result is needed to mark completion of well disinfection. A bacteria presence detected result will require re-dosing the well with a Chlorine Solution.

2.27 Surface Completion and Pump Pad Installation (Bid Item 29)

CONTRACTOR shall furnish all materials necessary to construct a graded and reinforced concrete pad that prevents water from pooling at the well head as described per these specifications.

2.27.1 Submittals

The following submittals are applicable to this section:

- Concrete mix design
- Data sheet(s) for rebar and any other material used to complete this task.

2.27.2 Materials

2.27.2.1 CONCRETE

The Concrete used shall meet the minimum compressive strength in 28 days of 4000 psi.

- ASTM C150 Type II Portland Cement with aggregate no larger than $\frac{3}{4}$ inch diameter
- Minimum cement per cubic yard is 6 sacks. One sack = 94lbs of cement.
- Max Water/Cement ratio of 0.45 (by weight).
- Slump shall be 6 inches \pm 1 inch.

2.27.2.2 FORMS

The form materials shall be either Douglas Fir or Yellow Pine lumber, new waterproof plywood, or metal approved for concrete use.

2.27.2.3 REBAR

The rebar shall be #5. Six bars shall be equally spaced each way, top and bottom. Rebar cover shall be 3 inches. See Figure 4. Rebar shall be cut to fit with no splicing.

Wire ties shall be made with No. 14 Wire with one tie per 2 running feet. Wires shall be staggered and tied in such a manner as to not slip.

2.27.2.4 CONCRETE FINISH

The pad finish shall be a U4 finish by the Unformed Surface Finish Schedule. A steel trowel finish giving a non-skid surface at completion shall be provided. Finished concrete shall be sloped away from the well casing.

2.27.3 Execution

CONTRACTOR shall install the Concrete Pump Pad per these specifications and Figure 4. The pad shall be flush with the top of the casing. The concrete pad shall slope away from the well casing all around. CONTRACTOR shall install a Sole Plate attached to the casing edge and grouted into the pump pad.

CONTRACTOR shall install a secure well cap to prevent unauthorized opening of the well. The cap shall be robust and prevent any person from removing or accidentally falling into the well. This shall be with a lockable cap or a temporarily tack-welded cap.

CONTRACTOR shall slope the ground around the pump pad to provide drainage of water away from the pad and prevent water from pooling at the pad base.

2.28 Demobilization and Cleanup (Bid Item 30)

CONTRACTOR shall remove all material and equipment from the site following acceptance of the well by AGENCY.

2.28.1 Submittals

The following submittals are applicable to this section:

- Closed well permit
- State of California Well Completion Report

2.28.2 Execution

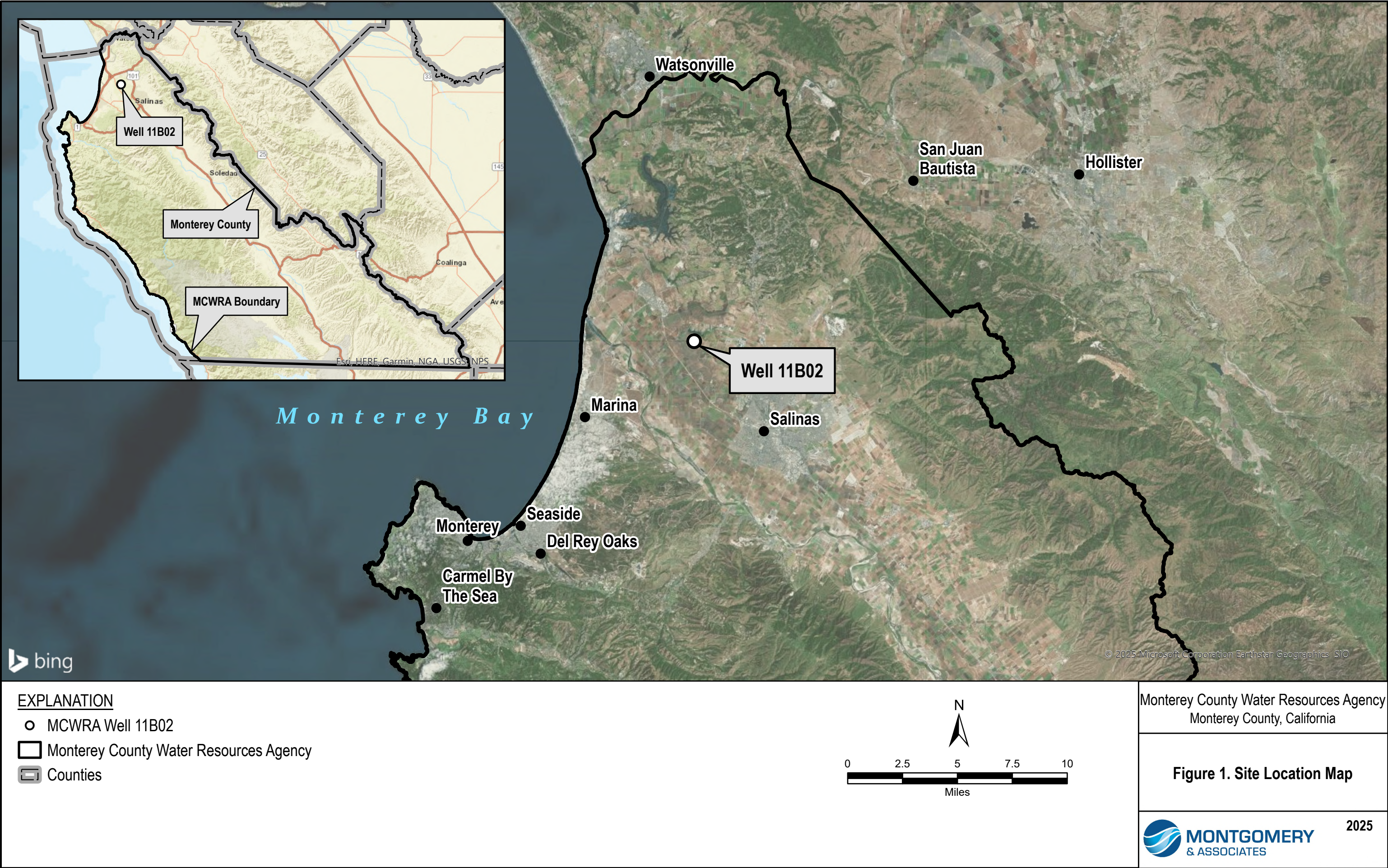
Complete removal of all material, temporary facilities, drilling fluids, cuttings, and municipal waste from the site to the satisfaction of AGENCY. CONTRACTOR shall notify AGENCY at the completion of demobilization and site cleanup activities.

2.29 Standby (Bid Item 31)

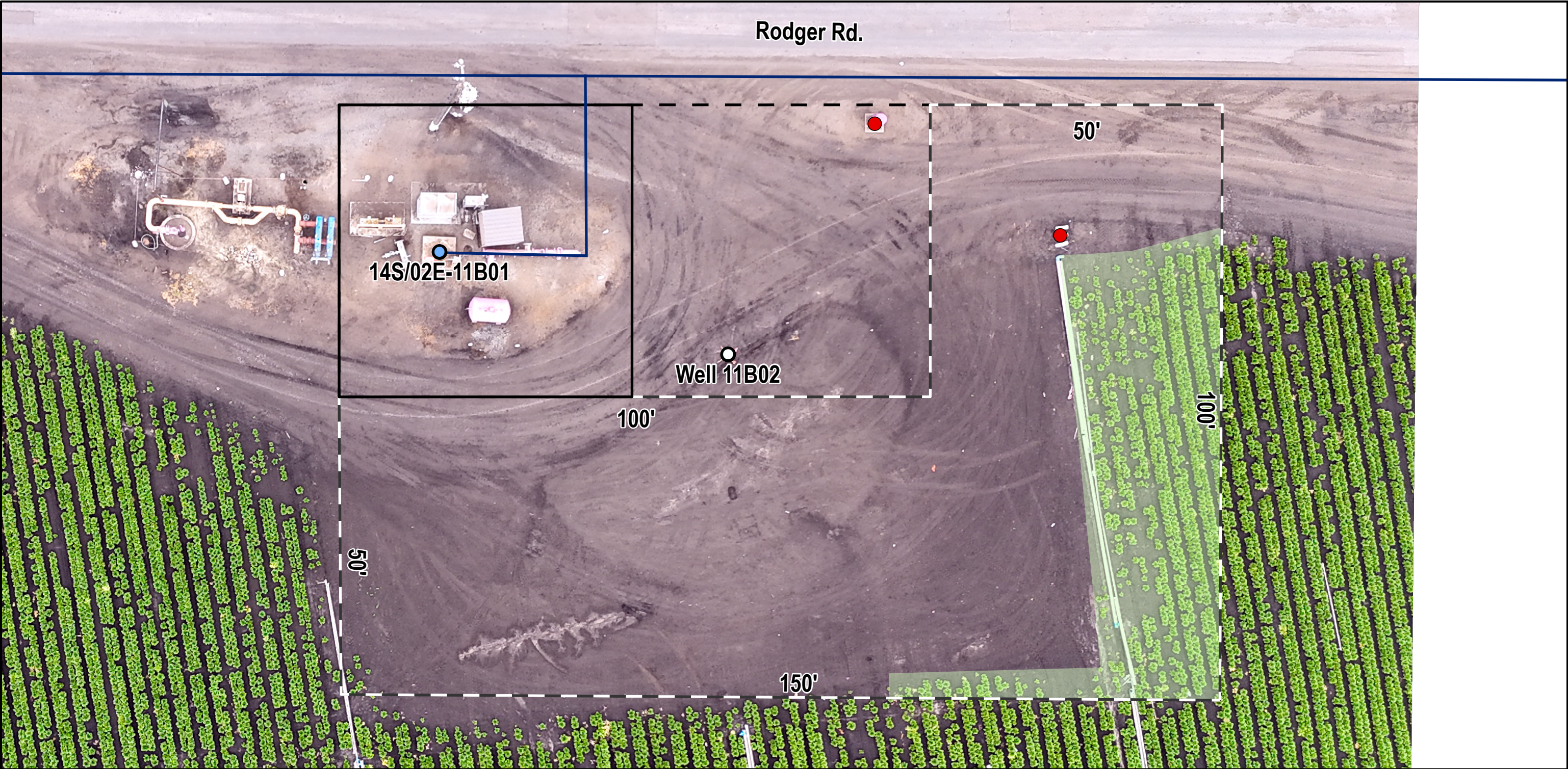
During the progress of drilling operations, it may be necessary for AGENCY to perform work that will require CONTRACTOR to stand idle (“standby time”). In such an event, AGENCY shall request in writing CONTRACTOR to cease operations and shall state the anticipated extent or duration thereof. CONTRACTOR shall promptly furnish such assistance and cease operations.

FIGURES

H:\MCWRA\GIS\ArcPro_Well_11B01.aprx

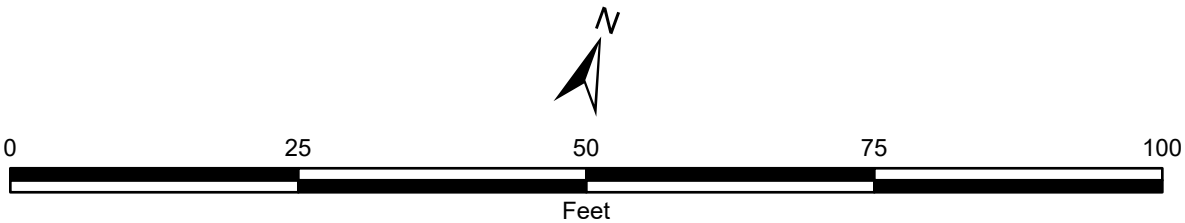


H:\MCWRA\GIS\ArcPro_Well_11B01.aprx



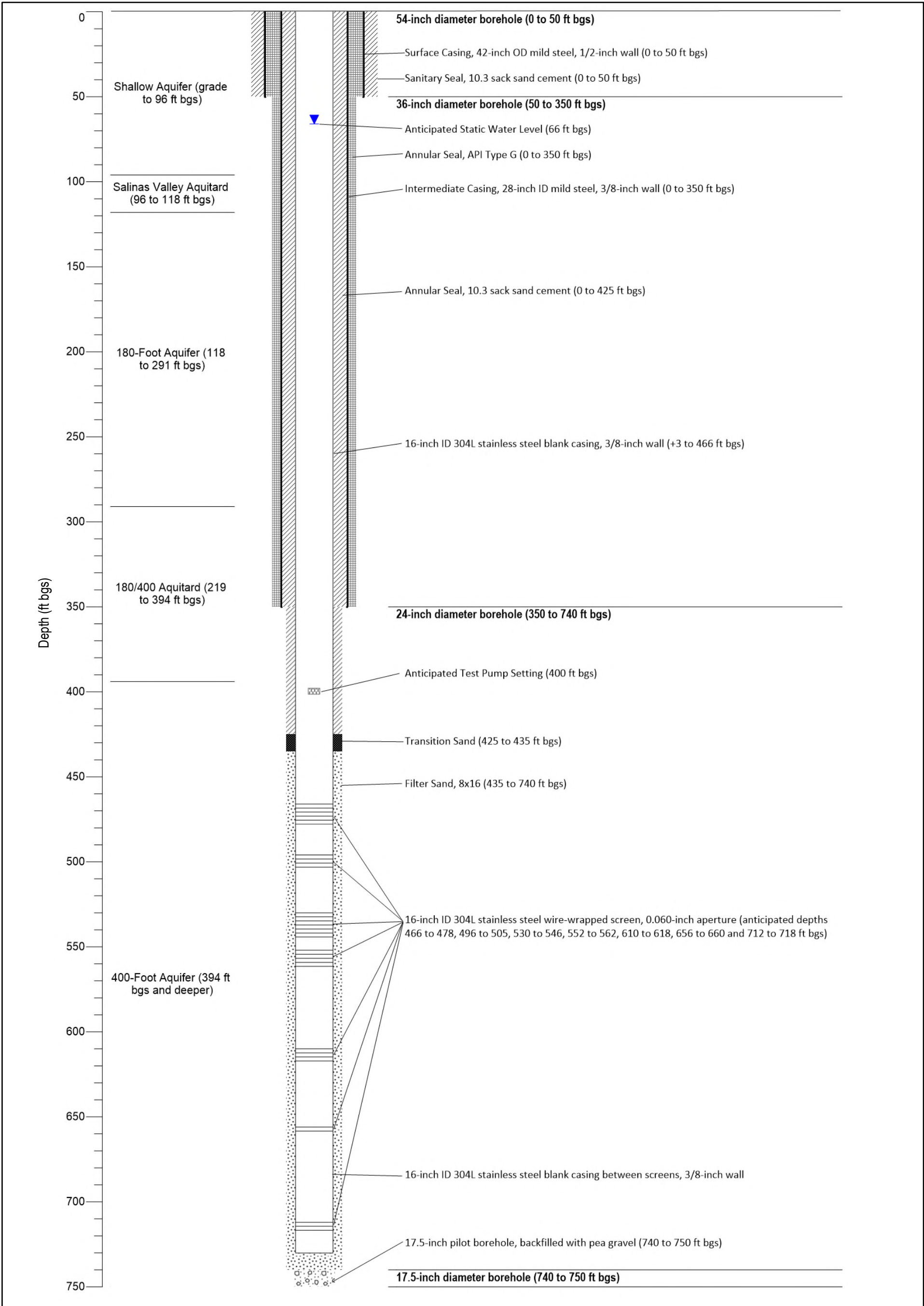
EXPLANATION

- | | |
|-----------------|--------------------------|
| ○ Well 11B02 | ■ Crops |
| ● 14S/02E-11B01 | □ Current Well Easements |
| ● Obstacles | □ Easement Extension |
| — CSIP Pipeline | □ Construction Easements |



Monterey County Water Resources Agency
Monterey County, California

Figure 2. Well Site Features

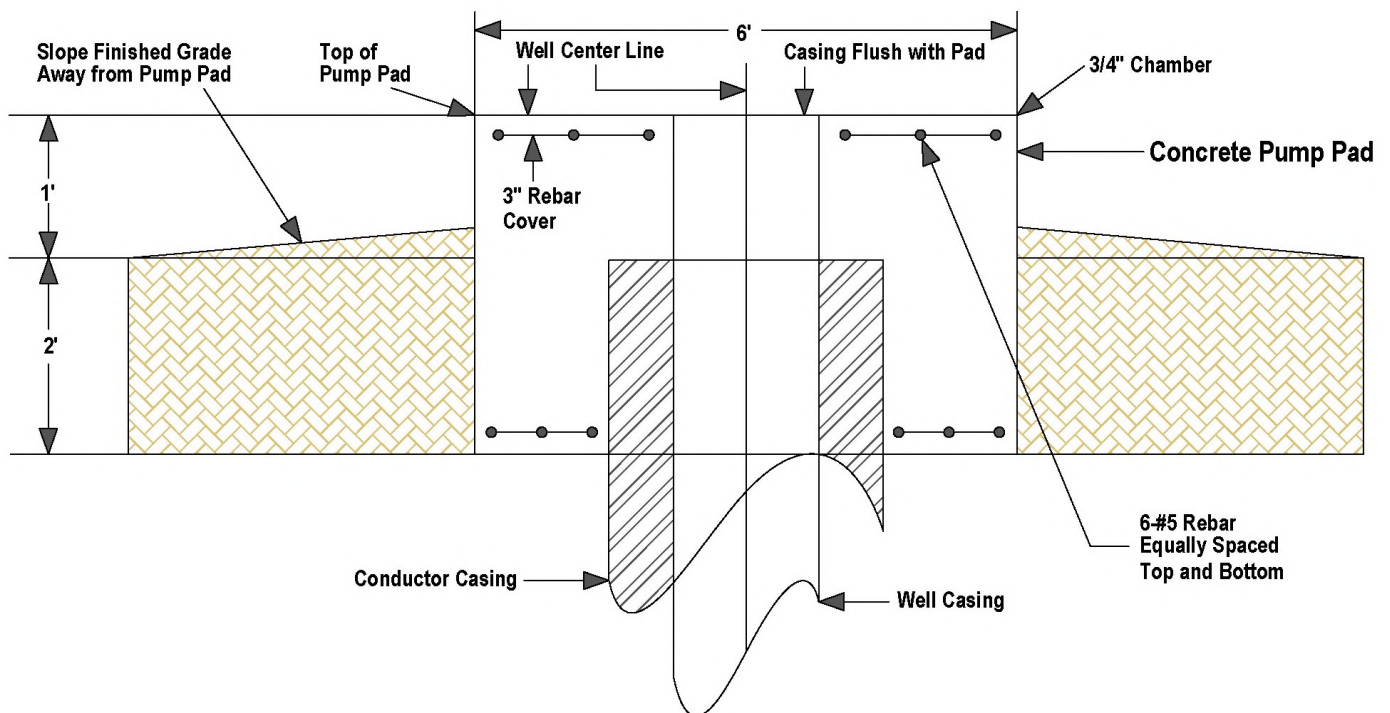
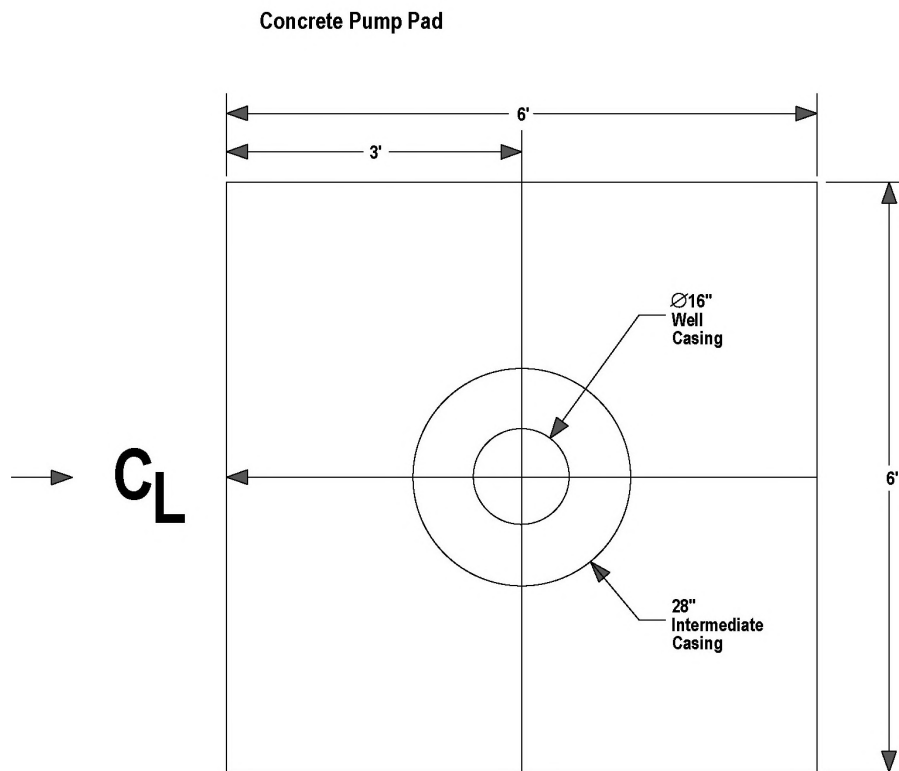


Monterey County Water Resources Agency
Monterey County, California



2025

Figure 3. Preliminary
Schematic for Well 11B02



Monterey County Water Resources Agency
Monterey County, California

Appendix A: Information on Existing Well 11B01 Including Well Completion Report, Color Video Survey

Well 11B01 is a cable tool, 16-inch diameter well drilled in 1992. The well is drilled in the 180/400 Foot Pressure Aquifers, while only being perforated in the 400-foot aquifer. The borehole was drilled to a depth of 822 feet and completed to that same depth. The well has a 300-foot cement sanitary seal, and perforations intermittently from 466 feet to 718 feet below grade. The original well design flow was for a production capacity of 1700 GPM with mills knife perforations of an undisclosed aperture slot.

In March 2024, the well was reported by the onsite recycled water user to be pumping large quantities of sand into their irrigation system, clogging their valves and irrigation lines. The well pump was pulled to investigate, and the well was discovered to have collapsed at 487 feet bgs. This was just below the first set of perforations.

At the time of the collapse, the well was being pumped at 1,500 gpm using a 10-inch vertical line shaft pump, 200 horsepower motor and pump intake of 390 feet bgs. Sand testing using this configuration and a Rossum Sand Tester showed high sand production, filling the tester tube in approximately 5 seconds. AGENCY believes sand production will be significantly lower during use as a drilling water supply when configured for a lower flow requirement and shallower pump setting. However, CONTRACTOR is advised this configuration has not been tested by AGENCY to date.

QUADRUPLICATE
Use to comply with
local requirements

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

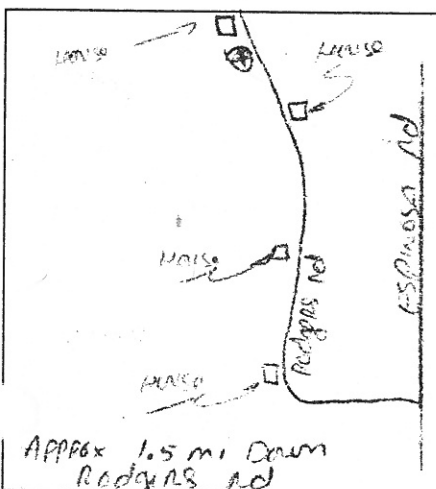
No. **361841**

Title of Intent No. _____
Local Permit No. or Date **# 6736**

State Well No. **145/2E-11B1**
Other Well No. **400FOOTAQUFER**

(1) OWNER: Name **CHARLES E. BOGGARTS**
Address **P.O. Box 2266**
City **SALINAS CA** ZIP **93822**

(2) LOCATION OF WELL (See instructions):
County **MONTPELIER** Owner's Well Number _____
Well address if different from above **Rodgers Road**
Township _____ Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. _____



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☒
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐ (Describe)

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☒ Size _____
Diameter of bore _____
Racked from _____ to _____ ft.

(7) CASING INSTALLED:
Steel ☒ Plastic ☐ Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen _____

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	52	21	10/20"	406	478	
0	300	20	10/20"	496	505	
0	818	16	10/20"	530	546	

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth **52** ft.
Were strata sealed against pollution? Yes ☐ No ☐ Interval _____ ft.
Method of sealing **NEAT CEMENT**

(10) WATER LEVELS:
Depth of first water, if known _____ ft.
Standing level after well completion _____ ft.

(11) WELL TESTS:
Was well test made? Yes ☒ No ☐ If yes, by whom? **ALSO PUMP**
Type of test _____ Pump ☒ Bailer ☐ Air lift ☐
Time to water at start of test **134** ft. At end of test **131** ft.
Discharge **2400** gal/min after **0** hours Water temperature _____
Chemical analysis made? Yes ☒ No ☐ If yes, by whom? _____
Was electric log made? Yes ☐ No ☒ If yes, attach copy to this report

(12) WELL LOG: Total depth **822** ft. Completed depth **822** ft.
from ft. to ft. Formation (Describe by color, character, size or material)

0 - 3	ADobe
3 - 26	yellow - white clay
26 - 32	sandy yellow clay
32 - 76	yellow sand (dry)
76 - 84	sand fine GRAVEL (water)
84 - 91	FINE BROWN SAND
94 - 96	yellow clay
96 - 114	blue clay
114 - 118	blue yellow clay
118 - 124	yellow clay
124 - 128	sand fine gravel
128 - 134	hard yellow clay
134 - 152	sandy red clay
152 - 214	red sand hard spots
214 - 228	yellow clay sandstone
228 - 291	fine gravel
291 - 324	yellow brown clay
324 - 328	sandy red clay
328 - 340	yellow red clay
340 - 348	yellow red clay
348 - 409	yellow red clay
409 - 426	sand fine gravel clay
426 - 438	white yellow clay
438 - 440	WHITE clay
440 - 442	TIGHT SAND (no gravel) (1")
442 - 452	yellow clay
452 - 458	WHITE clay
458 - 462	TIGHT SAND (no gravel)
462 - 466	sandy brown clay
466 - 478	hard sand 1" gravel
478 - 496	yellow white clay
496 - 505	sand in no gravel
505 - 514	yellow white clay
514 - 518	sand GRAVEL clay
518 - 530	packed sand
530 - 546	sand gravel clay 3-4" rock

Work started **5-29-92** Completed **8-6-92**

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed **Steve Dean** (Well Driller)
NAME **BOY ASSUP PUMP & DRILLING INC**
(Person, firm, or corporation) (Typed or printed)
Address **1508 ABBOTT ST**
City **SALINAS CA** ZIP **93801**
License No. **565945** Date of this report **7/10/92**

QUADRUPLICATE
Use to comply with
local requirements

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

145/2E-11B1
Do not fill in
No. **361842**

Notice of Intent No. _____
Local Permit No. or Date # 6736

State Well No. _____
Other Well No. 400 FOOT AQUIFER

(1) OWNER: Name QUOTRIAN F BOGGIATO
Address P.O. Box 2266
City SALINAS, CA ZIP 93902

(2) LOCATION OF WELL (See instructions):
County MONTEREY Owner's Well Number _____
Well address if different from above Rodgers Road
Township _____ Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. _____

(3) TYPE OF WORK:

New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe
destruction materials and pro-
cedures in Item 12)

(4) PROPOSED USE:

Domestic ☒
Irrigation ☒
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐ (Describe)

WELL LOCATION SKETCH

(5) EQUIPMENT:

Rotary ☐ Reverse ☐
Cable ☒ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:

Yes ☐ No ☒ Size _____
Diameter of bore _____
Packed from _____ to _____ ft.

(7) CASING INSTALLED:

Steel ☐ Plastic ☐ Concrete ☐

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
				552	562	
				610	620	
				656	660	
				712	718	

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☐ No ☐ If yes, to depth _____ ft.

Were strata sealed against pollution? Yes ☐ No ☐ Interval _____ ft.

Method of sealing _____

(10) WATER LEVELS:

Depth of first water, if known _____ ft.

Standing level after well completion _____ ft.

(11) WELL TESTS:

well test made? Yes ☐ No ☐ If yes, by whom? _____
of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☐ No ☐ If yes, by whom? _____
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 522 ft. Completed depth 822 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

546 - 552 1/2" WHITE clay
552 - 562 Sand, pea gravel, clay
562 - 602 Red clay
602 - 606 Red partial sand clay
606 - 610 Brown WHITE partial sand
610 - 618 WHITE sand, pea gravel
618 - 626 Brown clay
626 - 640 Sand
640 - 646 Red clay, some gravel
646 - 650 1/2" WHITE - Red clay
650 - 656 Sand, gravel 2" PICK
656 - 674 Sand, clay / clay
674 - 712 WHITE Brown clay, layers
of sandstone
712 - 718 Sand, gravel 1-2" ROCK
718 - 726 Brown clay
726 - 740 WHITE Sand clay
740 - 746 1/2" layers of Sandstone
746 - 790 Packed sand
790 - 822 1/2" Brown clay
Layers of Sandstone

Work started 5-29-92 19____ Completed 8-6-92 19____

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed _____ (Well Driller)
NAME POI ALSO PUMP & DRILLING, INC
(Person, firm, or corporation) (Typed or printed)
Address 1508 ABBOTT ST
City SALINAS, CA ZIP 93901
License No. 520915 Date of this report 9/10/92



County of Monterey

Item No.4

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-008

April 04, 2025

Introduced: 3/28/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Personnel Update. (Staff Presenting: Jessell Fenley)



County of Monterey

Item No.5

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-009

April 04, 2025

Introduced: 3/28/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Update 2024 Annual Inspection Reports for the Grazing Lease Program. (Staff Presenting:
Jennifer Boadensteiner)

P&A Committee April 2025

..Title

Update 2024 Annual Inspection Reports for the Grazing Lease Program

SUMMARY/DISCUSSION:

The Monterey County Water Resources Agency (Agency) is leasing and performs property management of Agency real property. The Agency acts as a lease administrator and provides property management services on its owned properties. The property consists of 24,000 acres of purchased vacant land surrounding Nacimiento and San Antonio Reservoirs. The lease of land for grazing involves eight (8) ranch areas consisting of 16,000 acres total or appropriately 10,300 acres above high water. The site search and selection available to local ranchers has been surveyed as 7,700 acres of suitable forage area. A suitable forage area map was created for each lease in 2010. The Agency grazing leases require annual monitoring of Residual Dry Matter (RDM) levels to be reported and applying to areas that are capable of producing a grazable amount of forage. This amount is typically at least 1,800 lbs/acre during an average growing season. Growing, or the grazing season begins November 1 and ends October 31. Conditions are assessed in the middle of the season to better understand a minimum level of RDM is retained to allow a reasonable level of livestock use and protection. The Agency Operations staff has completed the 2024 annual inspection reports. The reports will be used to inform Agency administration of the leases and the agreement allows for necessary changes in allotment of cattle, if necessary.

These activities align with Strategic Plan Goals A, *Infrastructure Maintenance, properly maintain MCWRA infrastructure to ensure safe and reliable function, A2 Create a comprehensive capital improvement plan for all facilities which includes preventative maintenance, addressing backlog of maintenance repairs, and making improvements to ensure safe and reliable facilities.* Activities associated with this program are included in Funds 111 and 116 of the FY 24-25 budget.

2024 Self-Assessments, Evaluation Meetings and Annual Reports

In the latter part of each spring or early summer, from mid-June through September, the Agency collects annual self-assessments, conducts evaluation meetings and then prepares annual reports. The timing of this inspection and sampling survey allows the Agency to capture conditions of the grazing season at a time when planning for the upcoming cattle operations. In this way, the Agency is assured the RDM data is an assessment of the relative, year-to-year change in forage throughout the properties.

For FY 2024-25, all lease areas showed needs for maintenance and surveys were performed to initiate improvements. The Agency staff was able to address key issues with infrastructure needs including fencings, gates, debris cleanup, and planning alternative water sources. The magnitude of proper vs improper grazing is also being evaluated ahead of the next lease cycle. The leases are being administered by the Agency. The success is the Agency is regulating grazing and optimizing land stewardship by following important protocols in the lease agreement. The Operations Division is assisting to help ensure the generation of property-related revenues is

being realized to support adequate infrastructure on these lands. There is economic importance of the grazing program and the experience increases support for the rural community, helps to preserve open space as well as wildlife habitat.

OTHER AGENCY INVOLVEMENT:

None

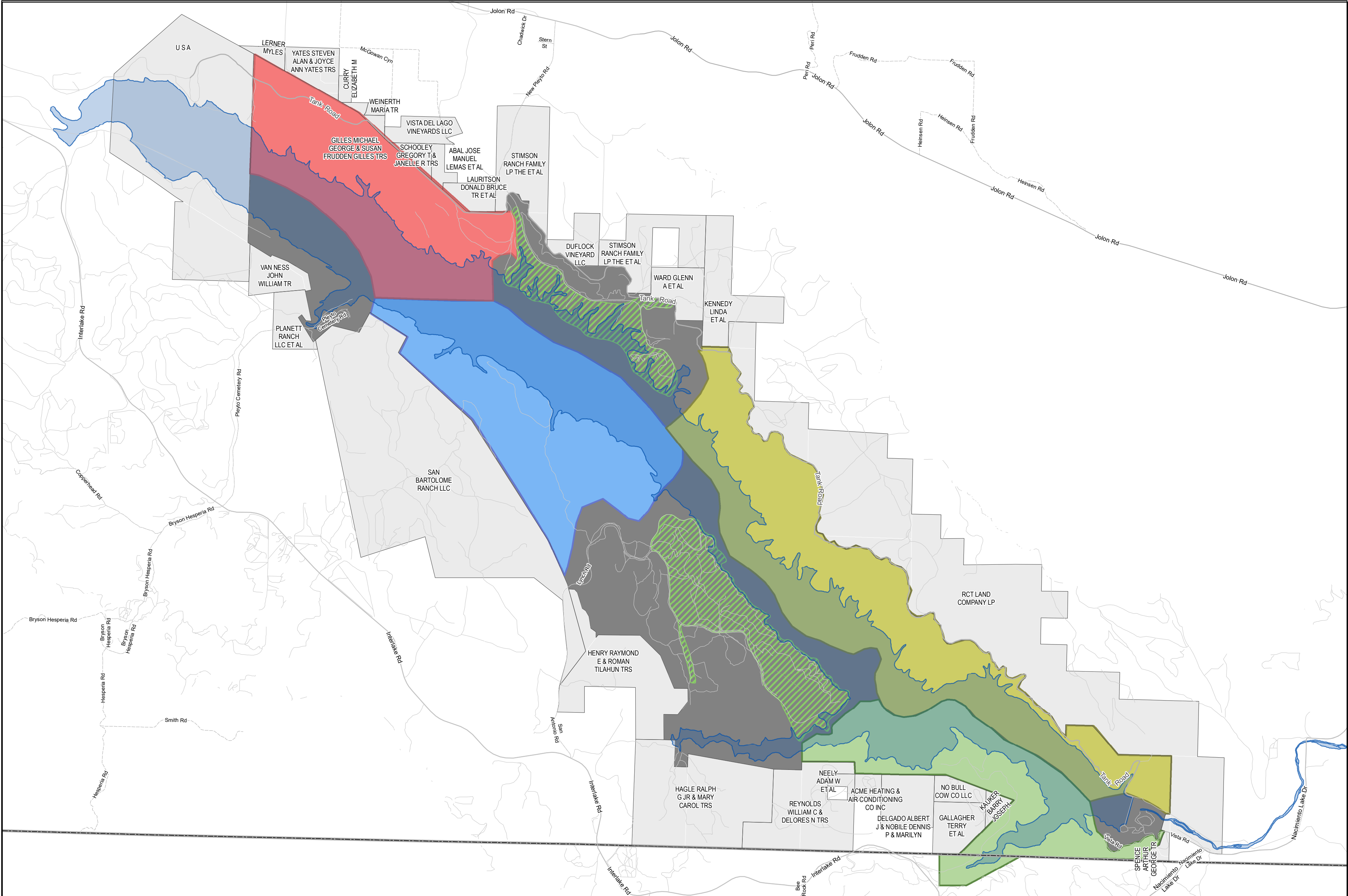
FINANCING:

There is no financial impact in receiving this report. Activities associated with this program are included in Funds 111 and Fund 116 FY 24-25 budget.

Prepared by: Jennifer Bodensteiner, Associate Hydrologist, (831) 788-3514

Attachments:

1. Grazing Lease Map San Antonio Reservoir
2. Grazing Lease Map Nacimiento Reservoir



San Antonio Reservoir Grazing Map

MCWRA Owned Parcels and Grazing Leases

Legend

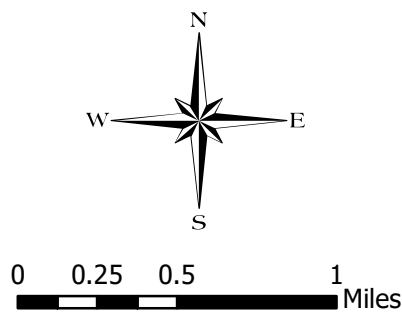
- San Antonio Grazing Leases
- Lease 1
 - Lease 2
 - Lease 3
 - Lease 4

- MCWRA Owned Parcels
- Adjacent Parcels with Owner Names
- Waterbody (HWM 780)
- Parks
- Monterey County Limit

- Roads
- Major Collector
 - Local
 - Tank Road
 - Dirt Roads

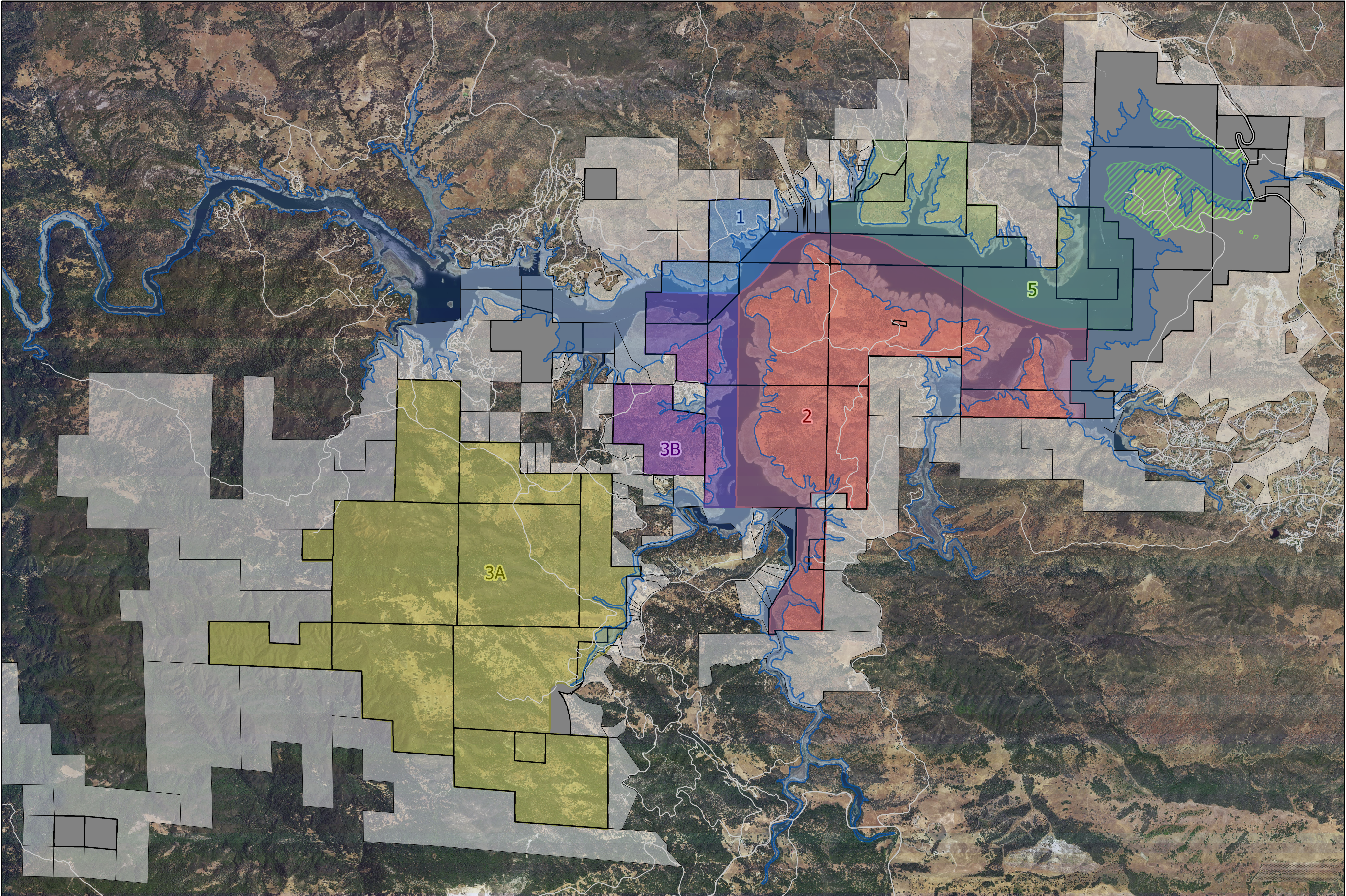
Lease	Acres above HWM 780	Acres below HWM 780
1	1226.9	873.4
2	1073.7	658.8
3	1587.4	1111.3
4	660.2	635.0

Date: 1/11/2019
The data used in this map is representational only, and is not intended for survey or project planning work.





Monterey County
Water Resources Agency
1441 Schillings Place, North Building
Salinas, CA 93091
831-755-4860



Nacimiento Reservoir Grazing Map

MCWRA Owned Parcels and Grazing Leases

Legend

Nacimiento Grazing Leases

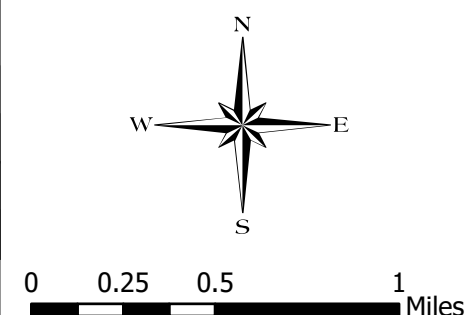
- Lease 1
- Lease 2
- Lease 3A
- Lease 3B
- Lease 5

- MCWRA Owned Parcels
- Adjacent Parcels
- Waterbody (HWM 800)
- Parks

- Roads
- Minor Arterial
- Major Collector
- Local

Lease	Acres above HWM 800'	Acres below HWM 800'
1	179.2	129.7
2	1373.0	1154.9
3A	3914.4	34.6
3B	397.9	360.0
5	369.2	851.7

Date: 10/22/2019
The data used in this map is representational only, and is not intended for survey or project planning work.
Parcel data is from 2005.



Monterey County
Water Resources Agency
1441 Schillings Place, North Building
Salinas, CA 93091
831-755-4860



County of Monterey

Item No.6

Board Report

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

Legistar File Number: WRAPA 25-010

April 04, 2025

Introduced: 3/28/2025

Current Status: Agenda Ready

Version: 1

Matter Type: WRA P&A Item

Set next meeting date and future agenda items.