

CONTRACT SPECIFICATIONS



For The Construction Of:

LOWER YAKIMA VALLEY GWMA MONITORING WELLS

Yakima County Public Services Project FC 3463



CERTIFICATE

I HEREBY CERTIFY THAT THE ATTACHED DOCUMENTS, PLANS,
AND SPECIFICATIONS CONFORM TO ORIGINALS WHICH ARE
ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF
YAKIMA COUNTY, WASHINGTON.



COUNTY ENGINEER

DATE: 8/7/18

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DIVISION 1

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INFORMATIONAL BID DOCUMENTS

INSTRUCTIONS TO BIDDERS

DELIVERY OF PROPOSALS

Sealed bids will be received at the following location before the specified time:

Yakima County Public Services, Fourth Floor County Courthouse, 128 N. 2nd Street, Yakima, Washington 98901 until **2:00 p.m.** of the bid opening date.

Each proposal, or bid shall be completely sealed in a separate package, addressed to the Engineer of Yakima County with the name of the improvements for which the bid is submitted plainly written on the outside of the package.

No oral, telephonic, facsimile, or telegraphic Bids or modifications shall be accepted.

DATE OF OPENING BIDS

The bid opening date for this project shall be **August 29, 2018**.

The bids shall be publicly opened and read after **2:00 p.m.** on that date at the following location:

Yakima County Road Engineer's Office, Fourth floor, Yakima County Courthouse, 128 N. 2nd Street, Yakima, Washington 98901.

RIGHT TO REJECT BIDS:

The right is reserved to reject any and all proposals, to accept the proposal or proposals deemed best for the County or to advertise for new proposals when in the opinion of the Board the best interest of the County shall be promoted thereby.

PROPOSAL GUARANTY:

A certified check, cashiers check, cash or bid bond made payable to the Treasurer of the County of Yakima for an amount equal to at least five percent (5%) of the total amount bid must accompany each bid as evidence of good faith and as a guarantee that if awarded the Contract the bidder shall execute the Contract and give Bond as required.

FORM FURNISHED :

Each bid must be made on the form attached to these Specifications.

CIVIL RIGHTS:

Yakima County in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it shall affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises shall be afforded full opportunity to submit bids in response to this invitation and shall not be discriminated against on the grounds of race, color or national origin in consideration for an award.

YAKIMA COUNTY IS AN EQUAL OPPORTUNITY EMPLOYER

PROPOSAL

This certifies that the undersigned has examined the location of the noted projects:

FC 3463 – LOWER YAKIMA VALLEY GWMA MONITORING WELLS

And that the Plans, Specifications and Contract governing the work embraced in these improvements, and the method by which payment will be made for said work, is understood. The undersigned hereby proposes to undertake and complete the work embraced in these improvements, or as much as can be completed with the money available, in accordance with the said Plans, Specifications, and Contract, and the following schedule of rates and prices:

NOTE: Unit Prices for all items, all extensions, and total amount of bid shall be shown. No oral, telephonic, facsimile, or telegraphic Bids or modifications shall be considered or accepted.

Item No.	Description	Approx. Quantity	Unit	Unit Price	Total Item Amount
1a	HOLLOW STEM AUGER GENERAL MOBILIZATION/DEMOBILIZATION	1	L.S.	\$.	\$.
1b	SONIC GENERAL MOBILIZATION/DEMOBILIZATION	1	L.S.	\$.	\$.
2	SITE PREP AND SETUP	20	EACH	\$.	\$.
3a	DRILL HOLLOW STEM AUGER BORINGS	200	L.F.	\$.	\$.
3b	DRILL SONIC BORINGS	1,400	L.F.	\$.	\$.
4	MONITORING WELL CASING AND SCREEN	1,600	L.F.	\$.	\$.
5	SAND PACK	200	L.F.	\$.	\$.
6	WELL SEAL	1,400	L.F.	\$.	\$.
7	SURFACE COMPLETION	20	EACH	\$.	\$.
8	SUPPLY 55-GALLON DRUM AND DISPOSE OF DRILL CUTTINGS	10	EACH	\$.	\$.
9	WELL DEVELOPMENT	20	HOURL	\$.	\$.
10a	PROJECT TEMPORARY TRAFFIC CONTROL – NO FLAGGERS	16	EACH	\$.	\$.
10b	PROJECT TEMPORARY TRAFFIC CONTROL - FLAGGERS	4	EACH	\$.	\$.
11	MINOR CHANGES	EST.	F.A.	\$ 10,000.00	\$ 10,000.00

Subtotal \$ _____

Washington State Sales Tax @ 7.9% \$ _____

BID TOTAL \$ _____

PROPOSAL – Continued

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

A proposal guaranty in an amount of five percent (5%) of the total bid, based upon the approximate estimate of quantities at the above prices and in the form as indicated below, is attached hereto:

CASH [] IN THE AMOUNT OF _____
CASHIER'S CHECK [] _____ DOLLARS
CERTIFIED CHECK [] (\$_____) PAYABLE TO THE COUNTY TREASURER
PROPOSAL BOND [] IN THE AMOUNT OF 5 PERCENT (5%) OF THE BID

Bidder acknowledges receipt of the following Addendum's:

No.	Date
_____	_____
_____	_____

The undersigned has telephoned the Office of the Yakima County Engineer for verification of the number of Addendum's issued.

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Title: _____
Firm Name: _____
Address: _____

Phone No.: _____
Washington Registration No.: _____
Federal ID Tax No.: _____
UBI No.: _____
E-Mail Address: _____

Signed and sworn (or affirmed) before me on _____
Date

NOTARY PUBLIC

My appointment expires _____
(Seal and Stamp)

- NOTE: (1) This proposal is not transferable and any alteration of the firm's name entered hereon without prior permission from the County Engineer shall be cause for considering the proposal irregular and subsequent rejection of the bid.
(2) Please refer to Section 1-02.6 of the Standard Specifications, re: "Preparation of Proposal".
(3) Should it be necessary to modify this proposal either in writing or by electronic means, please make reference to the following proposal number in your communications **FC 3463**.

LETTER OF RESPONSIBILITY

Date: _____
County Road Project No.: FC 3463

TO:
BOARD OF COUNTY COMMISSIONERS OF YAKIMA COUNTY, WASHINGTON
(Party awarding principal contract)

Dear Sirs:

I hereby maintain that I am a responsible bidder as contemplated by the policies of the State of Washington (Chapter 157, Laws of Washington of 1937).

- a. My permanent place of business is _____, which I have maintained for _____ years.
- b. I have adequate plant equipment to do expeditiously and properly the work contemplated for Yakima County, Washington.

DESCRIPTION OF WORK:

FC 3463 – Lower Yakima Valley GWMA Monitoring Wells

I have the following equipment available for this work:

- c. I have adequate funds to promptly meet obligations incident to this work.
Bank reference: _____

- d. I have had experience in this class of work, having constructed the following improvements.

I hereby certify that the above is a true and accurate statement.

Very truly yours,

Contractor

NOTE: This sheet need not be submitted, unless so requested by the Engineer subsequent to opening of bid. This "letter of responsibility" shall not be construed to be a request for prequalification of bidder.

DEFINITION OF TERMS

In interpreting these specifications, the following definitions shall prevail:

STATE: The State of Washington.

SECRETARY OF TRANSPORTATION: Secretary of Transportation of the State of Washington.

BOARD: The Board of County Commissioners of Yakima County.

ENGINEER: County, or construction engineer, or his duly authorized assistants by whom all explanations and directions necessary for the satisfactory prosecution and completion of the work described in these specifications will be given.

CONTRACTOR AND/OR SUPPLIER: The person, firm, co-partnership, or corporation, or any lawful agent of such person, firm, partnership or corporation constituting one of the principals to the contract and undertaking to perform the work herein specified.

CONTRACT: The Agreement between the Contractor and the County of Yakima acting through the Board of County Commissioners. The contract shall include the accepted "Proposal", "Plans", "Specifications" and "Contract Bond", also any and all supplemental agreements which reasonably could be required to complete the construction of the work in a substantial and acceptable manner.

PROPOSAL: The written offer, or copy thereof of the bidder to perform the work proposed.

PLANS: The officially approved drawings, or reproductions thereof attached to this contract.

SPECIFICATIONS: The directions, provisions and requirements contained herein, together with all written agreements made, or to be made pertaining to the method and manner of performing the work, or to the quantities and qualities of materials to be furnished under the contract.

CONTRACT BOND: The approved form of security furnished by the Contractor and his surety as a guarantee of good faith on the part of the Contractor to execute the work in accordance with the terms of the contract.

LABORATORY: The laboratories of the Department of Transportation, or other laboratories designated by the engineer.

AMOUNT OF THE CONTRACT: For the purpose of awarding the contract and determining the amount of the bond, the lump sum bid, or the summation of the products of the approximate quantities shown on the plans or otherwise stated by the unit prices will be considered the total amount of the bid and the full amount of the contract price.

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. That by signing the signature page of this proposal, I am deemed to have signed and have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U. S. Department of Transportation (USDOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of USDOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

**Certification Regarding
Debarment, Suspension, Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 29 CFR Part 98, Section 98.510, Participant's responsibilities. The regulations were published as Part VII of the May 26, 1998 Federal Register (pages 19160-19211).

**(BEFORE COMPLETING CERTIFICATION, READ ATTACHED INSTRUCTIONS
WHICH ARE AN INTEGRAL PART OF THE CERTIFICATION)**

- (1) The prospective recipient of federal assistance funds certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.
- (2) Where the prospective recipient of federal assistance funds is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

This certification is also applicable to violations to prevailing wage law (chapter 39.12 RCW), registration law (chapter 18.27 RCW), or industrial insurance law (chapter 51.48 RCW).

Name and Title of Authorized Representative

Signature

Date

Yakima County Public Services

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (_____), that the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgement entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Bidder

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

____ Individual ____ Partnership ____ Joint Venture ____ Corporation

State of Incorporation, or if not a Corporation, State where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

*If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.

CONTRACT

THIS AGREEMENT is made and entered into between Yakima County acting under and by virtue of Titles 36 and 39 RCW, hereinafter called the "COUNTY" and _____, hereinafter called the "CONTRACTOR".

That in consideration of the terms and conditions contained herein and attached and made a part of this agreement, the parties hereto covenant and agree as follows:

- I. The CONTRACTOR shall do all work and furnish all tools and equipment for **FC 3463 – Lower Yakima Valley GWMA Monitoring Wells**, and shall perform any changes in the work in accordance with the Contract Documents, which include the Contract Form, Bidder's completed Proposal Form, Scope of Work, Contract Plans, Contract Provisions, WSDOT 2018 Standard Specifications, Standard Specifications, Standard Plans, Addenda, various certifications and affidavits, supplemental agreements, and any change orders—all of which are incorporated by reference and made a part of this agreement. In the event of any conflict between terms or provisions contained in the following with those provided in the incorporated documents, the explicit provisions contained here shall control over those provided in incorporated documents.
- II. The CONTRACTOR shall provide and bear the expense of all equipment, material and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in the Contract Documents except those items mentioned therein to be furnished by Yakima County.
- III. The COUNTY hereby promises and agrees to pay the CONTRACTOR according to the conditions stated in the Contract Documents.
- IV. The CONTRACTOR for itself, and for its heirs, executors, administrators, successors and assigns does hereby agree to the full performance of all the covenants herein contained upon the part of the CONTRACTOR.
- V. It is further provided that no liability shall attach to the COUNTY by reason of entering into this Contract, except as expressly provided herein.
- VI. The parties agree that, for the purpose of this agreement, the CONTRACTOR is an independent contractor and neither the CONTRACTOR nor any employee of the CONTRACTOR is an employee of the COUNTY. Neither the CONTRACTOR nor any employee of the CONTRACTOR is entitled to any benefits that the COUNTY provides its employees. The CONTRACTOR is solely responsible for payment of any statutory workers compensation or employer's liability insurance as required by state law.
- VII. If any provision of this Agreement or any provision of any document incorporated by reference shall be held invalid, such invalidity shall not affect the other provisions of this Agreement, which can be given effect without the invalid provision if such remainder conforms to the requirements of applicable law and the fundamental purpose of this agreement, and to this end the provisions of this Agreement are declared to be severable.
- VIII. In the event that either party shall be required to bring any action to enforce any of the provisions of this Agreement, or shall be required to defend any action brought by the other party with respect to this Agreement, and in the further event that one party shall prevail in such action, the losing party shall, in addition to all other payments required therein, pay all of the prevailing party's actual costs in connection with such action, including such sums as the court or courts may adjudge reasonable as attorneys' fees in the trial court and in any appellate courts.

IN WITNESS WHEREOF, the CONTRACTOR has executed this instrument, on the date indicated below and Yakima County has caused this instrument to be executed in the name of said COUNTY by and through the Board of Yakima County Commissioners on the date indicated below.

CONTRACTOR:

Signed: _____, 2018

Signature for CONTRACTOR

Print or Type Name of Person Signing

Title

Foregoing Contract approved and ratified

_____, 2018

Surety

Attorney in fact

BOARD OF YAKIMA COUNTY COMMISSIONERS

Signed: _____, 2018

Ron Anderson, Chairman

Michael D. Leita, Commissioner

J. Rand Elliott, Commissioner
*Constituting the Board of County Commissioners
for Yakima County, Washington*

ATTEST: Clerk of the Board

Rachel Michael

Approved as to form:

Deputy Prosecuting Attorney

PERFORMANCE BOND
(RCW 39.08)

KNOW ALL MEN BY THESE PRESENTS, That _____, as "PRINCIPAL", and _____, a corporation authorized to do business in the State of Washington, as "SURETY", are jointly and severally held and bound unto Yakima County, Washington in the penal sum _____ Dollars (\$ _____) for the payment of which by these presents we jointly and severally bind ourselves, our heirs, executors, administrators, assigns, and successors.

THE CONDITION of this bond is such that WHEREAS, on _____, 2018, the PRINCIPAL executed a certain Contract with the County, by the terms of which PRINCIPAL agrees to furnish all material and labor and will undertake and complete the construction of **FC 3463 – Lower Yakima Valley GWMA Monitoring Wells** according to the maps, plans and specifications made a part of said Contract, which Contract is attached hereto and by this reference is incorporated herein and made a part hereof. FURTHER, the SURETY agrees to be bound by the laws of the State of Washington and subjected to the jurisdiction of the State of Washington.

NOW, THEREFORE, if the PRINCIPAL shall faithfully perform all the provisions of such contract and pay all laborers, mechanics, subcontractors and materialmen, and all persons who supply such persons or subcontractors with provisions or supplies for the carrying on of such work, then this obligation to be void, otherwise to remain in full force and effect.

Dated this _____ day of _____, 2018.

PRINCIPAL

By: _____

Title: _____

SURETY

By: _____
Attorney-in-Fact

Name of Local Office of Agent

Address of Local Office Agent

BOND NUMBER

APPROVED: YAKIMA COUNTY

By: _____

Chair of the Board of
Yakima County Commissioners

Date: _____ 2018

Approved as to form:

Deputy Prosecuting Attorney

YAKIMA COUNTY CONTRACT NUMBER

AMENDMENTS TO THE STANDARD SPECIFICATIONS

INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2018 Standard Specifications for Road, Bridge, and Municipal Construction.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

The following Amendments to the Standard Specifications are made a part of this contract and supersede any conflicting provisions of the Standard Specifications. For informational purposes, the date following each Amendment title indicates the implementation date of the Amendment or the latest date of revision.

Each Amendment contains all current revisions to the applicable section of the Standard Specifications and may include references which do not apply to this particular project.

DIVISION 1 GENERAL REQUIREMENTS

1-07.AP1

Section 1-07, Legal Relations and Responsibilities to the Public January 2, 2018

1-07.5(3) State Department of Ecology

This section is supplemented with the following:

9. When a violation of the CSWGP occurs, immediately notify the Engineer and fill out WSDOT Form 422-011, Contractor ECAP Report, and submit the form to the Engineer within 48 hours of the violation.
10. Once Physical Completion has been given, prepare a Notice of Termination (Ecology Form ECY 020-87) and submit the Notice of Termination electronically to the Engineer in a PDF format a minimum of 7 calendar days prior to submitting the Notice of Termination to Ecology.
11. Transfer the CSWGP coverage to the Contracting Agency when Physical Completion has been given and the Engineer has determined that the project site is not stabilized from erosion.
12. Submit copies of all correspondence with Ecology electronically to the Engineer in a PDF format within four calendar days.

1-07.7(1) General

The first sentence of the third paragraph is revised to read:

1 When the Contractor moves equipment or materials on or over Structures, culverts or pipes,
2 the Contractor may operate equipment with only the load-limit restrictions in Section 1-
3 07.7(2).
4

5 The first sentence of the last paragraph is revised to read:
6

7 Unit prices shall cover all costs for operating over Structures, culverts and pipes.
8

9 **1-07.9(2) Posting Notices**

10 The second sentence of the first paragraph (up until the colon) is revised to read:
11

12 The Contractor shall ensure the most current edition of the following are posted:
13

14 In items 1 through 10, the revision dates are deleted.
15

16 **1-07.11(2) Contractual Requirements**

17 In this section, “creed” is revised to read “religion”.
18

19 Item numbers 1 through 9 are revised to read 2 through 10, respectively.
20

21 After the preceding Amendment is applied, the following new item number 1 is inserted:
22

- 23 1. The Contractor shall maintain a Work site that is free of harassment, humiliation, fear,
24 hostility and intimidation at all times. Behaviors that violate this requirement include but
25 are not limited to:
26
 - 27 a. Persistent conduct that is offensive and unwelcome.
28
 - 29 b. Conduct that is considered to be hazing.
30
 - 31 c. Jokes about race, gender, or sexuality that are offensive.
32
 - 33 d. Unwelcome, unwanted, rude or offensive conduct or advances of a sexual nature
34 which interferes with a person’s ability to perform their job or creates an
35 intimidating, hostile, or offensive work environment.
36
 - 37 e. Language or conduct that is offensive, threatening, intimidating or hostile based on
38 race, gender, or sexual orientation.
39
 - 40 f. Repeating rumors about individuals in the Work Site that are considered to be
41 harassing or harmful to the individual’s reputation.
42

43 **1-07.11(5) Sanctions**

44 This section is supplemented with the following:
45

1 Immediately upon the Engineer's request, the Contractor shall remove from the Work site any
2 employee engaging in behaviors that promote harassment, humiliation, fear or intimidation
3 including but not limited to those described in these specifications.
4

5 **1-07.11(6) Incorporation of Provisions**

6 The first sentence is revised to read:
7

8 The Contractor shall include the provisions of Section 1-07.11(2) Contractual Requirements
9 (1) through (5) and the Section 1-07.11(5) Sanctions in every subcontract including
10 procurement of materials and leases of equipment.
11

12 **1-07.18 Public Liability and Property Damage Insurance**

13 Item number 1 is supplemented with the following new sentence:
14

15 This policy shall be kept in force from the execution date of the Contract until the Physical
16 Completion Date.
17
18
19
20

SPECIAL PROVISIONS

**SPECIAL PROVISIONS
TO THE STANDARD SPECIFICATIONS
FC 3463 – LOWER YAKIMA VALLEY GWMA
MONITORING WELLS**

The following Special Provisions are made a part of this contract and supersede any conflicting provisions of the 2018 Standard Specifications for Road, Bridge and Municipal Construction, and the foregoing Amendments to the Standard Specifications.

Several types of Special Provisions are included in this contract; General, Region, Bridges and Structures, and Project Specific. Special Provisions types are differentiated as follows:

(date)	General Special Provision
(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
(Regions ¹ date)	Region Special Provision
(BSP date)	Bridges and Structures Special Provision

General Special Provisions are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a “fill-in”.

Region Special Provisions are commonly applicable within the designated Region. Region designations are as follows:

<u>Regions¹</u>	
ER	Eastern Region
NCR	North Central Region
NWR	Northwest Region
OR	Olympic Region
SCR	South Central Region
SWR	Southwest Region
WSF	Washington State Ferries Division

Bridges and Structures Special Provisions are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a “fill-in”.

Project Specific Special Provisions normally appear only in the contract for which they were developed.

1
2
3 **DIVISION 1**
4 **GENERAL REQUIREMENTS**
5

6 **DESCRIPTION OF WORK**
7

8 (*****)

9 The work to be performed under this Contract consists of the construction of approximately 20
10 monitoring wells, all in accordance with the attached Plans, these Special Provisions and the 2018
11 Standard Specifications and Amendments thereto.
12

13 The quantities of work indicated in the proposal are to be considered as estimates and are for
14 comparative bidding purposes only. All payments shall be made on the basis of actual field
15 measurement of Contract work completed.
16

17 **FUNDS**
18

19 (*****)

20 This project is funded by the Washington State Legislature through the Washington State Department
21 of Ecology.
22

23 **Section 1-01, Definitions and Terms**
24

25 **1-01.3 Definitions**
26 *(January 4, 2016 APWA GSP)*
27

28 Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them
29 with the following:
30

31 **Dates**

32 ***Bid Opening Date***

33 The date on which the Contracting Agency publicly opens and reads the Bids.

34 ***Award Date***

35 The date of the formal decision of the Contracting Agency to accept the lowest
36 responsible and responsive Bidder for the Work.

37 ***Contract Execution Date***

38 The date the Contracting Agency officially binds the Agency to the Contract.

39 ***Notice to Proceed Date***

40 The date stated in the Notice to Proceed on which the Contract time begins.

41 ***Substantial Completion Date***

42 The day the Engineer determines the Contracting Agency has full and unrestricted use
43 and benefit of the facilities, both from the operational and safety standpoint, any
44 remaining traffic disruptions will be rare and brief, and only minor incidental work,

1 replacement of temporary substitute facilities, plant establishment periods, or correction
2 or repair remains for the Physical Completion of the total Contract.

3 ***Physical Completion Date***

4 The day all of the Work is physically completed on the project. All documentation
5 required by the Contract and required by law does not necessarily need to be furnished by
6 the Contractor by this date.

7 ***Completion Date***

8 The day all the Work specified in the Contract is completed and all the obligations of the
9 Contractor under the contract are fulfilled by the Contractor. All documentation required
10 by the Contract and required by law must be furnished by the Contractor before
11 establishment of this date.

12 ***Final Acceptance Date***

13 The date on which the Contracting Agency accepts the Work as complete.

14
15 Supplement this Section with the following:

16
17 All references in the Standard Specifications, Amendments, or WSDOT General Special
18 Provisions, to the terms "Department of Transportation", "Washington State Transportation
19 Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters",
20 and "State Treasurer" shall be revised to read "Contracting Agency".

21
22 All references to the terms "State" or "state" shall be revised to read "Contracting Agency"
23 unless the reference is to an administrative agency of the State of Washington, a State statute
24 or regulation, or the context reasonably indicates otherwise.

25
26 All references to "State Materials Laboratory" shall be revised to read "Contracting Agency
27 designated location".

28
29 All references to "final contract voucher certification" shall be interpreted to mean the
30 Contracting Agency form(s) by which final payment is authorized, and final completion and
31 acceptance granted.

32
33 **Additive**

34 A supplemental unit of work or group of bid items, identified separately in the Bid Proposal,
35 which may, at the discretion of the Contracting Agency, be awarded in addition to the base
36 bid.

37
38 **Alternate**

39 One of two or more units of work or groups of bid items, identified separately in the Bid
40 Proposal, from which the Contracting Agency may make a choice between different methods
41 or material of construction for performing the same work.

42
43 **Business Day**

44 A business day is any day from Monday through Friday except holidays as listed in Section
45 1-08.5.

1
2 **Contract Bond**

3 The definition in the Standard Specifications for “Contract Bond” applies to whatever bond
4 form(s) are required by the Contract Documents, which may be a combination of a Payment
5 Bond and a Performance Bond.
6

7 **Contract Documents**

8 See definition for “Contract”.
9

10 **Contract Time**

11 The period of time established by the terms and conditions of the Contract within which the
12 Work must be physically completed.
13

14 **Notice of Award**

15 The written notice from the Contracting Agency to the successful Bidder signifying the
16 Contracting Agency’s acceptance of the Bid Proposal.
17

18 **Notice to Proceed**

19 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
20 and directing the Contractor to proceed with the Work and establishing the date on which the
21 Contract time begins.
22

23 **Traffic**

24 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
25 equestrian traffic.
26
27

28 **Section 1-02, Bid Procedures and Conditions**

29
30 **1-02.1 Prequalification of Bidders**

31
32 Delete this section and replace it with the following:
33

34 **1-02.1 Qualifications of Bidder**

35 *(January 24, 2011 APWA GSP)*
36

37 Before award of a public works contract, a bidder must meet at least the minimum
38 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be
39 awarded a public works project.
40

41 **1-02.2 Plans and Specifications**

42 *(June 27, 2011 APWA GSP)*
43

44 Delete this section and replace it with the following:
45

46 Information as to where Bid Documents can be obtained or reviewed can be found in the Call
47 for Bids (Advertisement for Bids) for the work.

After award of the contract, plans and specifications will be issued to the Contractor at no cost as detailed below:

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	5	Furnished automatically upon award.
Contract Provisions	5	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	0	Furnished only upon request.

Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.

1-02.5 Proposal Forms (July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

1-02.6 Preparation of Proposal (June 20, 2017 APWA GSP)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.
5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the fourth paragraph and replace it with the following:

The Bidder shall submit with the Bid a completed Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification, when required by the Special Provisions. For each and every UDBE firm listed on the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification, the Bidder shall submit written confirmation from that UDBE firm that the UDBE is in agreement with the UDBE participation commitment that the Bidder has made in the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification. WSDOT Form 422-031U (Underutilized Disadvantaged Business Enterprise Written Confirmation Document) is to be used for this purpose. Bidder must submit good faith effort documentation with the Underutilized Disadvantaged Business Enterprise Utilization Certification only in the event the bidder's efforts to solicit sufficient UDBE participation have been unsuccessful. Directions for delivery of the Underutilized Disadvantaged Business Enterprise Written Confirmation Documents and Underutilized Disadvantaged Business Enterprise Good Faith Effort documentation are included in Sections 1-02.9

Delete the last paragraph, and replace it with the following:

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

1-02.7 Bid Deposit
(March 8, 2013 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;
2. Name of the project;
3. The Contracting Agency named as obligee;
4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;

5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;

6. The signature of the surety's officer empowered to sign the bond and the power of attorney.

If so stated in the Contract Provisions, bidder must use the bond form included in the Contract Provisions.

If so stated in the Contract Provisions, cash will not be accepted for a bid

1-02.9 Delivery of Proposal (July 31, 2017 APWA GSP, Option A)

Delete this section and replace it with the following:

Each Proposal shall be submitted in a sealed envelope, with the Project Name and Project Number as stated in the Call for Bids clearly marked on the outside of the envelope, or as otherwise required in the Bid Documents, to ensure proper handling and delivery.

If the project has FHWA funding and requires UDBE Written Confirmation Document(s) or Good Faith Effort (GFE) Documentation, then to be considered responsive, the Bidder shall submit Written Confirmation Documentation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification, form 272-056U, as required by Section 1-02.6. The UDBE Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The document(s) shall be received **no later than 24 hours** (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

The Bidder shall submit to the Contracting Agency a signed "Certification of Compliance with Wage Payment Statutes" document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1) (g), as required per Section 1-02.14. The "Certification of Compliance with Wage Payment Statutes" document shall be received either with the Bid Proposal or **no later than 24 hours** (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) must be submitted in a sealed envelope labeled the same as for the Proposal, with "Supplemental Information" added. All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Call for Bids.

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Call for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Call for Bids. The Contracting Agency will not open or consider any "Supplemental Information" (UDBE confirmations, GFE documentation, or Certification

of Compliance with Wage Payment Statutes) that is received after the time specified above, or received in a location other than that specified in the Call for Bids.

1-02.10 Withdrawing, Revising, or Supplementing Proposal

(July 23, 2015 APWA GSP)

Delete this section, and replace it with the following:

After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

1-02.13 Irregular Proposals

(June 20, 2017 APWA GSP)

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;

- i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
 - j. The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
 - k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
 - l. More than one Proposal is submitted for the same project from a Bidder under the same or different names.
2. A Proposal may be considered irregular and may be rejected if:
- a. The Proposal does not include a unit price for every Bid item;
 - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
 - c. Receipt of Addenda is not acknowledged;
 - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
 - e. If Proposal form entries are not made in ink.

1-02.15 Pre Award Information

(August 14, 2013 APWA GSP)

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

Section 1-03, Award and Execution of Contract

1-03.1 Consideration of Bids

(January 23, 2006 APWA GSP)

Revise the first paragraph to read:

After opening and reading proposals, the Contracting Agency will check them for correctness of extensions of the prices per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item, the price per unit will control. If a minimum bid amount has been established for any item and the bidder's unit or lump sum price is less than the minimum specified amount, the Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum specified amount and recalculate the extension. The total of extensions, corrected where necessary, including sales taxes where applicable and such additives and/or alternates as selected by the Contracting Agency, will be used by the Contracting Agency for award purposes and to fix the Awarded Contract Price amount and the amount of the contract bond.

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.

Within 10 calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor shall any work begin within the project limits or within Contracting Agency-furnished sites. The Contractor shall bear all risks for any work begun outside such areas and for any materials ordered before the contract is executed by the Contracting Agency.

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within 10 calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of 10 additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

1 (July 23, 2015 APWA GSP)

2
3 Delete the first paragraph and replace it with the following:

4
5 The successful bidder shall provide executed payment and performance bond(s) for the full
6 contract amount. The bond may be a combined payment and performance bond; or be
7 separate payment and performance bonds. In the case of separate payment and performance
8 bonds, each shall be for the full contract amount. The bond(s) shall:

- 9 1. Be on Contracting Agency-furnished form(s);
- 10 2. Be signed by an approved surety (or sureties) that:
- 11 a. Is registered with the Washington State Insurance Commissioner, and
- 12 b. Appears on the current Authorized Insurance List in the State of Washington
- 13 published by the Office of the Insurance Commissioner,
- 14 3. Guarantee that the Contractor will perform and comply with all obligations, duties, and
- 15 conditions under the Contract, including but not limited to the duty and obligation to
- 16 indemnify, defend, and protect the Contracting Agency against all losses and claims
- 17 related directly or indirectly from any failure:
- 18 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
- 19 subcontractors of the Contractor) to faithfully perform and comply with all contract
- 20 obligations, conditions, and duties, or
- 21 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
- 22 Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors,
- 23 material person, or any other person who provides supplies or provisions for carrying
- 24 out the work;
- 25 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
- 26 project under titles 50, 51, and 82 RCW; and
- 27 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the
- 28 bond; and
- 29 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
- 30 proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by
- 31 the president or vice president, unless accompanied by written proof of the authority of
- 32 the individual signing the bond(s) to bind the corporation (i.e., corporate resolution,
- 33 power of attorney, or a letter to such effect signed by the president or vice president).

34
35 **1-03.7 Judicial Review**

36 (July 23, 2015 APWA GSP)

37
38 Revise this section to read:

39
40 Any decision made by the Contracting Agency regarding the Award and execution of the

41 Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted

42 under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the

43 county where the Contracting Agency headquarters is located, provided that where an action

44 is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction.

45

1
2 **Section 1-04, Scope of Work**
3

4 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications,**
5 **and Addenda**

6 *(March 13, 2012 APWA GSP)*
7

8 Revise the second paragraph to read:
9

10 Any inconsistency in the parts of the contract shall be resolved by following this order of
11 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

- 12 1. Addenda,
- 13 2. Proposal Form,
- 14 3. Special Provisions,
- 15 4. Contract Plans,
- 16 5. Amendments to the Standard Specifications,
- 17 6. Standard Specifications,
- 18 7. Contracting Agency's Standard Plans or Details (if any), and
- 19 8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.
- 20
- 21

22 **Section 1-05, Control of Work**
23

24 **1-05.7 Removal of Defective and Unauthorized Work**

25 *(October 1, 2005 APWA GSP)*
26

27 Supplement this section with the following:
28

29 If the Contractor fails to remedy defective or unauthorized work within the time specified in
30 a written notice from the Engineer, or fails to perform any part of the work required by the
31 Contract Documents, the Engineer may correct and remedy such work as may be identified
32 in the written notice, with Contracting Agency forces or by such other means as the
33 Contracting Agency may deem necessary.
34

35 If the Contractor fails to comply with a written order to remedy what the Engineer
36 determines to be an emergency situation, the Engineer may have the defective and
37 unauthorized work corrected immediately, have the rejected work removed and replaced, or
38 have work the Contractor refuses to perform completed by using Contracting Agency or
39 other forces. An emergency situation is any situation when, in the opinion of the Engineer, a
40 delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage
41 to the public.
42

43 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
44 remedying defective or unauthorized work, or work the Contractor failed or refused to
45 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from

monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

1-05.11 Final Inspection

Delete this section and replace it with the following:

1-05.11 Final Inspections and Operational Testing *(October 1, 2005 APWA GSP)*

1-05.11(1) Substantial Completion Date

When the Contractor considers the work to be substantially complete, the Contractor shall so notify the Engineer and request the Engineer establish the Substantial Completion Date. The Contractor's request shall list the specific items of work that remain to be completed in order to reach physical completion. The Engineer will schedule an inspection of the work with the Contractor to determine the status of completion. The Engineer may also establish the Substantial Completion Date unilaterally.

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the work substantially complete and ready for its intended use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.

Upon receipt of written notice concurring in or denying substantial completion, whichever is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized interruption, the work necessary to reach Substantial and Physical Completion. The Contractor shall provide the Engineer with a revised schedule indicating when the Contractor expects to reach substantial and physical completion of the work.

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the work physically complete and ready for final inspection.

1-05.11(2) Final Inspection and Physical Completion Date

When the Contractor considers the work physically complete and ready for final inspection, the Contractor by written notice, shall request the Engineer to schedule a final inspection. The Engineer will set a date for final inspection. The Engineer and the Contractor will then make a final inspection and the Engineer will notify the Contractor in writing of all particulars in which the final inspection reveals the work incomplete or unacceptable. The Contractor shall immediately take such corrective measures as are necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without interruption until physical completion of the listed deficiencies. This process will continue until the Engineer is satisfied the listed deficiencies have been corrected.

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7.

The Contractor will not be allowed an extension of contract time because of a delay in the performance of the work attributable to the exercise of the Engineer's right hereunder.

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date shall constitute the Physical Completion Date of the contract, but shall not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

1-05.11(3) Operational Testing

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.

Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

1-05.13 Superintendents, Labor and Equipment of Contractor

(August 14, 2013 APWA GSP)

Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices

(March 25, 2009 APWA GSP)

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

1-05.16 Water and Power

(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the contract includes power and water as a pay item.

Section 1-07, Legal Relations and Responsibilities to the Public

1-07.1 Laws to be Observed

(October 1, 2005 APWA GSP)

Supplement this section with the following:

In cases of conflict between different safety regulations, the more stringent regulation shall apply.

The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of the Washington Industrial Safety and Health Act of 1973 (WISHA).

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall

1 establish, publish, and make known to all employees, procedures for ensuring immediate
2 removal to a hospital, or doctor's care, persons, including employees, who may have been
3 injured on the project site. Employees should not be permitted to work on the project site
4 before the Contractor has established and made known procedures for removal of injured
5 persons to a hospital or a doctor's care.
6

7 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the
8 Contractor's plant, appliances, and methods, and for any damage or injury resulting from
9 their failure, or improper maintenance, use, or operation. The Contractor shall be solely and
10 completely responsible for the conditions of the project site, including safety for all persons
11 and property in the performance of the work. This requirement shall apply continuously, and
12 not be limited to normal working hours. The required or implied duty of the Engineer to
13 conduct construction review of the Contractor's performance does not, and shall not, be
14 intended to include review and adequacy of the Contractor's safety measures in, on, or near
15 the project site.
16

17 **1-07.2 State Taxes**

18
19 Delete this section, including its sub-sections, in its entirety and replace it with the following:
20

21 **1-07.2 State Sales Tax**

22 *(June 27, 2011 APWA GSP)*
23

24 The Washington State Department of Revenue has issued special rules on the State sales tax.
25 Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should
26 contact the Washington State Department of Revenue for answers to questions in this area.
27 The Contracting Agency will not adjust its payment if the Contractor bases a bid on a
28 misunderstood tax liability.
29

30 The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract
31 amounts. In some cases, however, state retail sales tax will not be included. Section 1-
32 07.2(2) describes this exception.
33

34 The Contracting Agency will pay the retained percentage (or release the Contract Bond if a
35 FHWA-funded Project) only if the Contractor has obtained from the Washington State
36 Department of Revenue a certificate showing that all contract-related taxes have been paid
37 (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor
38 any amount the Contractor may owe the Washington State Department of Revenue, whether
39 the amount owed relates to this contract or not. Any amount so deducted will be paid into
40 the proper State fund.
41

42 **1-07.2(1) State Sales Tax — Rule 171**

43
44 WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets,
45 roads, etc., which are owned by a municipal corporation, or political subdivision of the state,
46 or by the United States, and which are used primarily for foot or vehicular traffic. This
47 includes storm or combined sewer systems within and included as a part of the street or road

1 drainage system and power lines when such are part of the roadway lighting system. For
2 work performed in such cases, the Contractor shall include Washington State Retail Sales
3 Taxes in the various unit bid item prices, or other contract amounts, including those that the
4 Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in
5 doing the work.

6 7 **1-07.2(2) State Sales Tax — Rule 170**

8
9 WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or
10 existing buildings, or other structures, upon real property. This includes, but is not limited to,
11 the construction of streets, roads, highways, etc., owned by the state of Washington; water
12 mains and their appurtenances; sanitary sewers and sewage disposal systems unless such
13 sewers and disposal systems are within, and a part of, a street or road drainage system;
14 telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above
15 streets or roads, unless such power lines become a part of a street or road lighting system;
16 and installing or attaching of any article of tangible personal property in or to real property,
17 whether or not such personal property becomes a part of the realty by virtue of installation.

18
19 For work performed in such cases, the Contractor shall collect from the Contracting Agency,
20 retail sales tax on the full contract price. The Contracting Agency will automatically add this
21 sales tax to each payment to the Contractor. For this reason, the Contractor shall not include
22 the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule
23 170, with the following exception.

24
25 Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or
26 a subcontractor makes on the purchase or rental of tools, machinery, equipment, or
27 consumable supplies not integrated into the project. Such sales taxes shall be included in the
28 unit bid item prices or in any other contract amount.

29 30 **1-07.2(3) Services**

31
32 The Contractor shall not collect retail sales tax from the Contracting Agency on any contract
33 wholly for professional or other services (as defined in Washington State Department of
34 Revenue Rules 138 and 244).

35
36 *(June 27, 2011)*

37 The Contracting Agency will release the Contract Bond only if the Contractor has obtained
38 from the State Department of Revenue a certificate showing that all Contract-related taxes
39 have been paid.

40 41 **1-07.7 Load Limits**

42 **(*****)**

43
44 Section 1-07.7 is supplemented with the following:
45

1 If the sources of materials provided by the Contractor require hauling over roads, bridges,
2 culverts, or pipes, other than County roads, bridges, culverts, or pipes, the Contractor
3 shall, at their own cost and expense, make all arrangements for the use of the haul routes.
4

5 **1-07.13 Contractor's Responsibility for Work**

6

7 **1-07.13(4) Repair of Damage**

8

9 Section 1-07.13(4) is revised to read:

10
11 *(August 6, 2001)*

12 The Contractor shall promptly repair all damage to either temporary or permanent work as
13 directed by the Engineer. For damage qualifying for relief under Sections 1-07.13(1), 1-
14 07.13(2) or 1-07.13(3), payment will be made in accordance with Section 1-04.4. Payment
15 will be limited to repair of damaged work only. No payment will be made for delay or
16 disruption of work.
17

18 **1-07.18 Public Liability and Property Damage Insurance**

19

20 Delete this section in its entirety, and replace it with the following:

21 22 **1-07.18 Insurance**

23 *(January 4, 2016 APWA GSP)*
24

25 **1-07.18(1) General Requirements**

- 26 A. The Contractor shall procure and maintain the insurance described in all subsections of
27 section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of
28 not less than A-: VII and licensed to do business in the State of Washington. The
29 Contracting Agency reserves the right to approve or reject the insurance provided, based on
30 the insurer's financial condition.
31
- 32 B. The Contractor shall keep this insurance in force without interruption from the
33 commencement of the Contractor's Work through the term of the Contract and for thirty (30)
34 days after the Physical Completion date, unless otherwise indicated below.
35
- 36 C. If any insurance policy is written on a claims made form, its retroactive date, and that of all
37 subsequent renewals, shall be no later than the effective date of this Contract. The policy
38 shall state that coverage is claims made, and state the retroactive date. Claims-made form
39 coverage shall be maintained by the Contractor for a minimum of 36 months following the
40 Completion Date or earlier termination of this Contract, and the Contractor shall annually
41 provide the Contracting Agency with proof of renewal. If renewal of the claims made form
42 of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase
43 an extended reporting period ("tail") or execute another form of guarantee acceptable to the
44 Contracting Agency to assure financial responsibility for liability for services performed.
45
- 46 D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella
47 Liability insurance policies shall be primary and non-contributory insurance as respects the

Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.

- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- G. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- H. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- I. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

For Commercial General Liability insurance coverage, the required additional insured endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

1-07.18(3) Subcontractors

The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that complies with all applicable requirements of the Contractor-provided insurance as set forth herein, except the Contractor shall have sole responsibility for determining the limits of coverage required to be obtained by Subcontractors.

The Contractor shall ensure that all Subcontractors of every tier add all entities listed in 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that

1 section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01
2 for ongoing operations and CG 20 37 10 01 for completed operations.

3
4 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
5 Agency evidence of insurance and copies of the additional insured endorsements of each
6 Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

7 8 **1-07.18(4) Verification of Coverage**

9 The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and
10 endorsements for each policy of insurance meeting the requirements set forth herein when the
11 Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand
12 such verification of coverage with these insurance requirements or failure of Contracting Agency
13 to identify a deficiency from the insurance documentation provided shall not be construed as a
14 waiver of Contractor's obligation to maintain such insurance.

15
16 Verification of coverage shall include:

- 17 1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
- 18 2. Copies of all endorsements naming Contracting Agency and all other entities listed in
19 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit
20 a copy of any blanket additional insured clause from its policies instead of a separate
21 endorsement.
- 22 3. Any other amendatory endorsements to show the coverage required herein.
- 23 4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these
24 requirements – actual endorsements must be submitted.

25
26 Upon request by the Contracting Agency, the Contractor shall forward to the Contracting
27 Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is
28 required on this Project, a full and certified copy of that policy is required when the Contractor
29 delivers the signed Contract for the work.

30 31 **1-07.18(5) Coverages and Limits**

32 The insurance shall provide the minimum coverages and limits set forth below. Contractor's
33 maintenance of insurance, its scope of coverage, and limits as required herein shall not be
34 construed to limit the liability of the Contractor to the coverage provided by such insurance, or
35 otherwise limit the Contracting Agency's recourse to any remedy available at law or in equity.

36
37 All deductibles and self-insured retentions must be disclosed and are subject to approval by the
38 Contracting Agency. The cost of any claim payments falling within the deductible or self-
39 insured retention shall be the responsibility of the Contractor. In the event an additional insured
40 incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or
41 self-insured retention shall be the responsibility of the Contractor.

42 43 **1-07.18(5)A Commercial General Liability**

44 Commercial General Liability insurance shall be written on coverage forms at least as broad as
45 ISO occurrence form CG 00 01, including but not limited to liability arising from premises,

operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

The Commercial General Liability insurance shall be endorsed to provide a per project general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's completed operations for at least three years following Substantial Completion of the Work.

Such policy must provide the following minimum limits:

\$2,000,000	Each Occurrence
\$5,000,000	General Aggregate
\$2,000,000	Products & Completed Operations Aggregate
\$1,000,000	Personal & Advertising Injury each offence
\$1,000,000	Stop Gap / Employers' Liability each accident

1-07.18(5)B Automobile Liability

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

\$1,000,000	Combined single limit each accident
-------------	-------------------------------------

1-07.18(5)C Workers' Compensation

The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

1-07.18(5)D Excess or Umbrella Liability

(January 4, 2016 APWA GSP)

The Contractor shall provide Excess or Umbrella Liability insurance with limits of not less than \$1 million each occurrence and \$3 million annual aggregate. This excess or umbrella liability coverage shall be excess over and as least as broad in coverage as the Contractor's Commercial General and Auto Liability insurance

All entities listed under 1-07.18(2) of these Special Provisions shall be named as additional insureds on the Contractor's Excess or Umbrella Liability insurance policy.

This requirement may be satisfied instead through the Contractor's primary Commercial General and Automobile Liability coverages, or any combination thereof that achieves the overall required limits of insurance.

1-07.23 Public Convenience and Safety

(January 2, 2012 WSDOT GSP)

Section 1-07.23 is supplemented with the following:

Work Zone Clear Zone

The Work Zone Clear Zone (WZCZ) applies during working and nonworking hours. The WZCZ applies only to temporary roadside objects introduced by the Contractor's operations and does not apply to preexisting conditions or permanent Work. Those work operations that are actively in progress shall be in accordance with adopted and approved Traffic Control Plans, and other contract requirements.

During nonworking hours equipment or materials shall not be within the WZCZ unless they are protected by permanent guardrail or temporary concrete barrier. The use of temporary concrete barrier shall be permitted only if the Engineer approves the installation and location.

During actual hours of work, unless protected as described above, only materials absolutely necessary to construction shall be within the WZCZ and only construction vehicles absolutely necessary to construction shall be allowed within the WZCZ or allowed to stop or park on the shoulder of the roadway.

The Contractor's nonessential vehicles and employees private vehicles shall not be permitted to park within the WZCZ at any time unless protected as described above.

Deviation from the above requirements shall not occur unless the Contractor has requested the deviation in writing and the Engineer has provided written approval.

Minimum WZCZ distances are measured from the edge of traveled way and will be determined as follows:

Posted Speed	Distance From Traveled Way (Feet)
35 mph or less	10 *
40 mph	15
45 to 55 mph	20
60 mph or greater	30

* or 2-feet beyond the outside edge of sidewalk

Minimum Work Zone Clear Zone Distance

1-07.24 Rights of Way

(July 23, 2015 APWA GSP)

Delete this section and replace it with the following:

1 Street Right of Way lines, limits of easements, and limits of construction permits are
2 indicated in the Plans. The Contractor's construction activities shall be confined within these
3 limits, unless arrangements for use of private property are made.
4

5 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way
6 and easements, both permanent and temporary, necessary for carrying out the work.
7 Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's
8 attention by a duly issued Addendum.
9

10 Whenever any of the work is accomplished on or through property other than public Right of
11 Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement
12 agreement obtained by the Contracting Agency from the owner of the private property.
13 Copies of the easement agreements may be included in the Contract Provisions or made
14 available to the Contractor as soon as practical after they have been obtained by the Engineer.
15

16 Whenever easements or rights of entry have not been acquired prior to advertising, these
17 areas are so noted in the Plans. The Contractor shall not proceed with any portion of the
18 work in areas where right of way, easements or rights of entry have not been acquired until
19 the Engineer certifies to the Contractor that the right of way or easement is available or that
20 the right of entry has been received. If the Contractor is delayed due to acts of omission on
21 the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the
22 Contractor will be entitled to an extension of time. The Contractor agrees that such delay
23 shall not be a breach of contract.
24

25 Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
26 includes entry onto easements and private property where private improvements must be
27 adjusted.
28

29 The Contractor shall be responsible for providing, without expense or liability to the
30 Contracting Agency, any additional land and access thereto that the Contractor may desire
31 for temporary construction facilities, storage of materials, or other Contractor needs.
32 However, before using any private property, whether adjoining the work or not, the
33 Contractor shall file with the Engineer a written permission of the private property owner,
34 and, upon vacating the premises, a written release from the property owner of each property
35 disturbed or otherwise interfered with by reasons of construction pursued under this contract.
36 The statement shall be signed by the private property owner, or proper authority acting for
37 the owner of the private property affected, stating that permission has been granted to use the
38 property and all necessary permits have been obtained or, in the case of a release, that the
39 restoration of the property has been satisfactorily accomplished. The statement shall include
40 the parcel number, address, and date of signature. Written releases must be filed with the
41 Engineer before the Completion Date will be established.
42
43

44 **SECTION 1-08, Prosecution and Progress**

45 Add the following new section:
46
47

1 **1-08.0 Preliminary Matters**

2 *(May 25, 2006 APWA GSP)*

3
4 Add the following new section:

5
6 **1-08.0(1) Preconstruction Conference**

7 *(October 10, 2008 APWA GSP)*

8
9 Prior to the Contractor beginning the work, a preconstruction conference will be held
10 between the Contractor, the Engineer and such other interested parties as may be invited.

11 The purpose of the preconstruction conference will be:

- 12 1. To review the initial progress schedule;
- 13 2. To establish a working understanding among the various parties associated or affected by
- 14 the work;
- 15 3. To establish and review procedures for progress payment, notifications, approvals,
- 16 submittals, etc.;
- 17 4. To establish normal working hours for the work;
- 18 5. To review safety standards and traffic control; and
- 19 6. To discuss such other related items as may be pertinent to the work.

20
21 The Contractor shall prepare and submit at the preconstruction conference the following:

- 22 1. A breakdown of all lump sum items;
- 23 2. A preliminary schedule of working drawing submittals; and
- 24 3. A list of material sources for approval if applicable.

25
26 Add the following new section:

27
28 **1-08.0(2) Hours of Work**

29 *(December 8, 2014 APWA GSP)*

30
31 Except in the case of emergency or unless otherwise approved by the Engineer, the normal
32 working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and
33 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires
34 different than the normal working hours stated above, the request must be submitted in
35 writing prior to the preconstruction conference, subject to the provisions below. The
36 working hours for the Contract shall be established at or prior to the preconstruction
37 conference.

38
39 All working hours and days are also subject to local permit and ordinance conditions (such as
40 noise ordinances).

41
42 If the Contractor wishes to deviate from the established working hours, the Contractor shall
43 submit a written request to the Engineer for consideration. This request shall state what
44 hours are being requested, and why. Requests shall be submitted for review no later than
45 noon on working day prior to the day(s) the Contractor is requesting to change the hours.
46

1 If the Contracting Agency approves such a deviation, such approval may be subject to certain
2 other conditions, which will be detailed in writing. For example:

- 3 1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting
4 Agency for the costs in excess of straight-time costs for Contracting Agency
5 representatives who worked during such times. (The Engineer may require
6 designated representatives to be present during the work. Representatives who may
7 be deemed necessary by the Engineer include, but are not limited to: survey crews;
8 personnel from the Contracting Agency's material testing lab; inspectors; and other
9 Contracting Agency employees or third party consultants when, in the opinion of the
10 Engineer, such work necessitates their presence.)
- 11 2. Considering the work performed on Saturdays, Sundays, and holidays as working
12 days with regard to the contract time.
- 13 3. Considering multiple work shifts as multiple working days with respect to contract
14 time even though the multiple shifts occur in a single 24-hour period.
- 15 4. If a 4-10 work schedule is requested and approved the non working day for the week
16 will be charged as a working day.
- 17 5. If Davis Bacon wage rates apply to this Contract, all requirements must be met and
18 recorded properly on certified payroll
19

20 **1-08.4 Prosecution of Work**

21
22 Delete this section and replace it with the following:

23 24 **1-08.4 Notice to Proceed and Prosecution of Work** 25 *(July 23, 2015 APWA GSP)* 26

27 Notice to Proceed will be given after the contract has been executed and the contract bond
28 and evidence of insurance have been approved and filed by the Contracting Agency. The
29 Contractor shall not commence with the work until the Notice to Proceed has been given by
30 the Engineer. The Contractor shall commence construction activities on the project site
31 within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The
32 Contractor shall diligently pursue the work to the physical completion date within the time
33 specified in the contract. Voluntary shutdown or slowing of operations by the Contractor
34 shall not relieve the Contractor of the responsibility to complete the work within the time(s)
35 specified in the contract.
36

37 When shown in the Plans, the first order of work shall be the installation of high visibility
38 fencing to delineate all areas for protection or restoration, as described in the Contract.
39 Installation of high visibility fencing adjacent to the roadway shall occur after the placement
40 of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon
41 construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No
42 other work shall be performed on the site until the Contracting Agency has accepted the
43 installation of high visibility fencing, as described in the Contract.
44

1 **1-08.5 Time for Completion**

2 *(December 4, 2006 WSDOT GSP)*

3 Section 1-08.5 is supplemented with the following:

4
5 This project shall be physically completed within **50 working days**.

6
7 **1-08.5 Time for Completion**

8 *(September 12, 2016 APWA GSP, Option A)*

9
10 Revise the third and fourth paragraphs to read:

11
12 Contract time shall begin on the first working day following the Notice to Proceed Date.

13
14 Each working day shall be charged to the contract as it occurs, until the contract work is
15 physically complete. If substantial completion has been granted and all the authorized
16 working days have been used, charging of working days will cease. Each week the Engineer
17 will provide the Contractor a statement that shows the number of working days: (1) charged
18 to the contract the week before; (2) specified for the physical completion of the contract; and
19 (3) remaining for the physical completion of the contract. The statement will also show the
20 nonworking days and any partial or whole day the Engineer declares as unworkable. Within
21 10 calendar days after the date of each statement, the Contractor shall file a written protest of
22 any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in
23 sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed.
24 By not filing such detailed protest in that period, the Contractor shall be deemed as having
25 accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4
26 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked
27 would ordinarily be charged as a working day then the fifth day of that week will be charged
28 as a working day whether or not the Contractor works on that day.

29
30 Revise the sixth paragraph to read:

31
32 The Engineer will give the Contractor written notice of the completion date of the contract
33 after all the Contractor's obligations under the contract have been performed by the
34 Contractor. The following events must occur before the Completion Date can be established:

- 35 1. The physical work on the project must be complete; and
- 36 2. The Contractor must furnish all documentation required by the contract and required by
- 37 law, to allow the Contracting Agency to process final acceptance of the contract. The
- 38 following documents must be received by the Project Engineer prior to establishing a
- 39 completion date:
- 40 a. Certified Payrolls (per Section 1-07.9(5)).
- 41 b. Material Acceptance Certification Documents
- 42 c. Monthly Reports of Amounts Credited as DBE Participation, as required by the
- 43 Contract Provisions.
- 44 d. Final Contract Voucher Certification

- e. Copies of the approved “Affidavit of Prevailing Wages Paid” for the Contractor and all Subcontractors
- f. Property owner releases per Section 1-07.24

1-08.9 Liquidated Damages

(August 14, 2013 APWA GSP)

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract, the Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.

Section 1-09, Measurement and Payment

1-09.6 Force Account

(October 10, 2008 APWA GSP)

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication, that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

1-09.9 Payments

(March 13, 2012 APWA GSP)

Supplement this section with the following:

Lump sum item breakdowns are not required when the bid price for the lump sum item is less than \$20,000.

(March 13, 2012 APWA GSP)

Delete the first four paragraphs and replace them with the following:

1 The basis of payment will be the actual quantities of Work performed according to the
2 Contract and as specified for payment.

3
4 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
5 Preconstruction Conference, to enable the Project Engineer to determine the Work performed
6 on a monthly basis. A breakdown is not required for lump sum items that include a basis for
7 incremental payments as part of the respective Specification. Absent a lump sum
8 breakdown, the Project Engineer will make a determination based on information available.
9 The Project Engineer's determination of the cost of work shall be final.

10
11 Progress payments for completed work and material on hand will be based upon progress
12 estimates prepared by the Engineer. A progress estimate cutoff date will be established at the
13 preconstruction conference.

14
15 The initial progress estimate will be made not later than 30 days after the Contractor
16 commences the work, and successive progress estimates will be made every month thereafter
17 until the Completion Date. Progress estimates made during progress of the work are
18 tentative, and made only for the purpose of determining progress payments. The progress
19 estimates are subject to change at any time prior to the calculation of the final payment.

20
21 The value of the progress estimate will be the sum of the following:

- 22 1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of
23 work completed multiplied by the unit price.
- 24 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum
25 breakdown for that item, or absent such a breakdown, based on the Engineer's
26 determination.
- 27 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or
28 other storage area approved by the Engineer.
- 29 4. Change Orders — entitlement for approved extra cost or completed extra work as
30 determined by the Engineer.

31
32 Progress payments will be made in accordance with the progress estimate less:

- 33 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
- 34 2. The amount of progress payments previously made; and
- 35 3. Funds withheld by the Contracting Agency for disbursement in accordance with the
36 Contract Documents.

37
38 Progress payments for work performed shall not be evidence of acceptable performance or an
39 admission by the Contracting Agency that any work has been satisfactorily completed. The
40 determination of payments under the contract will be final in accordance with Section 1-05.1.

41
42 **1-09.11(3) Time Limitation and Jurisdiction**
43 *(July 23, 2015 APWA GSP)*

44
45 Revise this section to read:
46

1 For the convenience of the parties to the Contract it is mutually agreed by the parties that any
2 claims or causes of action which the Contractor has against the Contracting Agency arising
3 from the Contract shall be brought within 180 calendar days from the date of final acceptance
4 (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any
5 such claims or causes of action shall be brought only in the Superior Court of the county
6 where the Contracting Agency headquarters is located, provided that where an action is
7 asserted against a county, RCW 36.01.05 shall control venue and jurisdiction. The parties
8 understand and agree that the Contractor's failure to bring suit within the time period
9 provided, shall be a complete bar to any such claims or causes of action. It is further
10 mutually agreed by the parties that when any claims or causes of action which the Contractor
11 asserts against the Contracting Agency arising from the Contract are filed with the
12 Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency
13 to have timely access to any records deemed necessary by the Contracting Agency to assist in
14 evaluating the claims or action.

15
16 **1-09.13(3) Claims \$250,000 or Less**
17 *(October 1, 2005 APWA GSP)*

18
19 Delete this section and replace it with the following:

20
21 The Contractor and the Contracting Agency mutually agree that those claims that total
22 \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by
23 nonbinding ADR processes, shall be resolved through litigation unless the parties mutually
24 agree in writing to resolve the claim through binding arbitration.

25
26 **1-09.13(3)A Administration of Arbitration**
27 *(July 23, 2015 APWA GSP)*

28
29 Revise the third paragraph to read:

30
31 The Contracting Agency and the Contractor mutually agree to be bound by the decision of
32 the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the
33 Superior Court of the county in which the Contracting Agency's headquarters is located,
34 provided that where claims subject to arbitration are asserted against a county, RCW
35 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of the
36 arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use
37 the Contract as a basis for decisions.

38
39
40 **Section 1-10, Temporary Traffic Control**

41
42 **1-10.2 Traffic Control Management**

43
44 **1-10.2(1) General**
45 *(January 3, 2017)*

46
47 Section 1-10.2(1) is supplemented with the following:

1
2 Only training with WSDOT TCS card and WSDOT training curriculum is recognized in
3 the State of Washington. The Traffic Control Supervisor shall be certified by one of the
4 following:

5
6 The Northwest Laborers-Employers Training Trust
7 27055 Ohio Ave.
8 Kingston, WA 98346
9 (360) 297-3035

10
11 Evergreen Safety Council
12 12545 135th Ave. NE
13 Kirkland, WA 98034-8709
14 1-800-521-0778

15
16 The American Traffic Safety Services Association
17 15 Riverside Parkway, Suite 100
18 Fredericksburg, Virginia 22406-1022
19 Training Dept. Toll Free (877) 642-4637
20 Phone: (540) 368-1701
21
22
23

TECHNICAL SPECIFICATIONS

**TECHNICAL SPECIFICATION
GROUNDWATER MONITORING WELLS
YAKIMA COUNTY, WASHINGTON**

PART 1 - SUMMARY OF WORK SCOPE

Yakima County, Washington (Owner) wishes to install twenty new groundwater monitoring wells. Pacific Groundwater Group (Geologist) will observe drilling and advise the Owner on well construction matters. Twenty wells will be used in this bid for comparison purposes, although the Owner reserves the right to adjust the number of wells based on total project cost.

The geologic materials anticipated within the drilled depth are predominantly sedimentary deposits, but basaltic bedrock will likely be encountered at a number of locations. Drilling will be accomplished using a combination of hollow stem auger and sonic drill rigs. Estimated total drilling depths range from approximately 30 to 200 feet (Table 1). In general, hollow stem auger (HSA) drilling will be used for wells approximately 50-ft deep or less, which are completed in alluvium (approximately 5-7 wells). Sonic drilling will be used for wells more than 50-ft deep (approximately 13-15 wells) and where the Geologist anticipates bedrock may be encountered within the drilled depth. Wells are to be constructed of 2-inch PVC casing and screen, within minimum 6-inch diameter boreholes.

Fluids introduced during drilling shall be limited to filtered air and potable water. All downhole tools will be pressure washed before use and between holes.

The Contractor shall provide soil samples to the Geologist. Samples from HSA boreholes will be collected every 5-ft using a 3-inch diameter split-spoon sampler. Samples from sonic boreholes will be provided from continuous core.

Backfill materials include a sand pack around the screen and a bentonite chip seal to land surface.

Wells will be finished at land surface in 12-inch flush-to-grade monuments imbedded in a concrete slab.

While this document is intended as an accurate description of field conditions, the Contractor is responsible for verifying them.

PART 2 - SUBMITTALS

Initial contact, submission of bids, contracting, billing, and coordination of work will be through:

Joe Stump
Utilities Manager
128 N 2nd Street
Yakima, WA 98901
Tel: (509) 574-2425 Fax: (509) 574-2301
Email: Joe.Stump@co.yakima.wa.us

Geological questions may be directed to:

Steve Swope
Pacific Groundwater Group
2377 Eastlake Avenue East, Suite 200
Seattle WA, 98102-3305
Tel: (206) 329-0141 Fax: (206) 329-6968 Email: steve@pgwg.com

Contractors should submit the following information within the bid package:

1. Contact person and proposed driller.
2. Demonstration of company and driller's past experience in sonic and hollow stem auger drilling and constructing monitoring wells.
3. Proposed equipment to complete the job.
5. Cost information on the attached schedule of prices.

PART 3 - GENERAL INFORMATION

3.1 Location of, and Access to, Well Sites

The wells have been located by the Owner in public right-of-ways. The approximate locations of the wells are shown in **Figure 1**. Well locations will be staked or painted by the Owner.

Drill sites appear to be accessible by a truck mounted rig. However, Contractor should verify before bidding. Traffic control may be necessary at some locations and will be provided by the Contractor.

The Contractor shall be responsible for all conditions of any arrangements the Contractor makes for the use of privately owned property. The Contractor shall be held responsible for acquiring signed property release forms, in the format provided in Appendix B, for all properties that have been disturbed or damaged by the Contractor's operations, or utilized by the Contractor for staging, storing, or stock piling of materials or equipment.

3.2 Protection and Restoration of the Work Site

Other than minor brush clearing necessary for well site access, the Contractor shall conduct all operations in such a way as to prevent any destruction, scarring, or defacing of the work sites. Every effort will be made to present an orderly appearance at the work site while drilling operations take place.

At the completion of the field activities, the Contractor will be required to return the sites to their original conditions except for the presence of the well components and drill spoils which will be left in place at most locations. In some locations, drill spoils will be drummed, removed from the site, and disposed of by the driller.

In the event that any damage to the properties occur because of the Contractor's activities, the Contractor shall, at his/her own expense, repair the damage or reclaim the land to the extent deemed suitable to the Owner. Alternatively, the Contractor may pay the owner a reasonable value to remedy the damage.

3.3 Staging Area

The owner will provide staging areas for storing materials and equipment upon request. Staging areas available include:

- A. Yakima County Public Services, Road Maintenance Facility, 321 S. 1st Street, Sunnyside, Washington.
- B. Yakima County Public Services, Cheyne Landfill, 4970 Cheyne Road, Zillah, Washington.
- C. Yakima County Public Services (vacant property), 3403 North Meyers Road, Toppenish, Washington.

At the completion of the field activities, the Contractor shall return the staging areas to their original condition.

The Contractor assumes responsibility for all materials and equipment left unattended at drill sites.

3.4 Responsibilities of the Geologist

The Geologist will be in the field during drilling and well construction. The Geologist will observe the work for compliance with these specifications. Geologist will have the authority to direct adjustments to these technical specifications as the work proceeds. The Geologist will be responsible for managing soil sampling activity, maintaining a boring log, providing the Contractor a sketch of each desired well design as the boring is completed, and observing and recording the well installation.

3.5 Responsibilities of the Contractor

Prior to the commencement of field operations, the Contractor will designate the representative who will be responsible to discuss work schedules and related matters with

the Geologist and Owner. The Contractor will procure all permits, licenses and certificates that may be required by law for the execution of the work described in this document. The Contractor will comply with all federal, state, and local laws, ordinances, rules, and regulations relating to the performance of the work described in this document.

All work, materials, and construction shall conform to the requirements of Chapter 173-160 WAC, *Minimum Standards for the Construction of Wells*. In the event of a conflict between these specifications and WAC 173-160, and in the absence of a variance from WAC 173-160, the most stringent standards or procedures shall prevail.

The successful bidder shall submit a notice of intent to install monitoring wells (with fees) to the Washington State Department of Ecology (Ecology) and receive a start card prior to mobilization as specified in WAC 173-160-055 *Well Construction Notification (Start Card)*. At the completion of the project, the Contractor will be required to complete and submit to Ecology all necessary reports and forms relating to the construction of the wells (WAC 173-160-050 "Records").

The Contractor is responsible for all ground surface modifications, including brush clearing or displacement, necessary to move drilling equipment and support vehicles to and from the proposed well sites.

The Contractor shall plan, manage, supervise and perform all temporary traffic control activities needed to support the work of the Contract. Flagging, signs and all other traffic control devices furnished or provided shall conform to the standards established in the latest adopted edition of the *Manual on Uniform Traffic Control Devices* (MUTCD) published by the U.S. Department of Transportation and the *Washington State Modifications to the MUTCD* and *Quality Guidelines for Temporary Traffic Control Devices*.

3.6 Right-of-Way Use Permit

The Contractor shall prepare and submit a Right-of-Way Use Permit application to Yakima County Public Services for review and approval. A copy of the application is in Appendix C. No work shall take place in County road right-of-way until a Right of-Way Use Permit has been issued and all necessary signs and traffic control devices are in place.

The Contractor shall prepare and submit Traffic Control Plans to Yakima County as part of the Right-of-Way Use Permit application. The work area, construction signs, flaggers, and other traffic control devices shall be shown on the traffic control plans. The traffic control plans shall be in accordance with the established standards for plan development as shown in the Manual on Uniform Traffic Control Devices (MUTCD).

Traffic Control Plans shall meet the following requirements:

- A. At least one-way traffic shall be maintained on all roads.

- B. Traffic Control Plans shall be prepared by an individual certified by one of the agencies identified in Section 1-10 of the Special Provisions.
- C. Traffic Control Plans shall be site specific.

PART 4 - MATERIALS

4.1 Well Casing and Screen

Only new, commercially available, 2-inch diameter, Schedule 40 PVC pipe and screen with flush threaded joints and O-ring seals shall be used for the monitoring wells. No solvent welded joints will be allowed. Bottom plugs shall be flush threaded to the screens. A slot size of 0.010 inches shall be used in the screen sections. The casing and screens shall be supplied in 5- and 10-foot lengths.

4.2 Sand Pack Material

The sand pack material shall be 10-20 Colorado silica sand provided in unbroken original packaging.

4.3 Seal Materials

Bentonite chips will be used for well seals. The product used shall be a 30% solids bentonite designed for use as a well sealing material.

4.4 Flush Mount Well Covers

Flush mount well covers shall be watertight steel 3-bolt style and shall be Morris Industries, Inc. 8" Watertight Manhole with 12" skirt length, or equal.

4.5 Lockable Water Proof Cap

Lockable Water Proof Cap shall consist of nominal 2-inch diameter mechanical locking plug (Cherne Industries or equal).

4.6 Concrete

Concrete used to seal the upper end of the well casing shall have a minimum compressive strength of 3,500 psi. Hand mixing of concrete will be permitted provided the hand mixing is done in a way that distributes materials evenly throughout the mix.

4.7 Marker Posts

Marker posts shall be white fiberglass or thermoplastic with a minimum height of 66-inches. Posts shall be designed to bend over when hit and snap back into their normal position. Label shall read Caution Water Monitoring Well and shall be a minimum size of 2-7/8" x 14". Marker posts shall be Rhino Marking and Protection Systems 3-Rail with PolyTech Coating or equal.

PART 5 - EXECUTION OF WORK

5.1 Completion Schedule

The Contractor, Owner, and Geologist will schedule the work such that it is completed within 50 working days of notification to proceed. Work must continue unabated after mobilization.

5.2 Drilling

Borings will be drilled using a sonic drill rig, and optionally a hollow stem auger for shallower borings. Boring diameters will be minimum 6-inches. Hollow stem auger and sonic drilling methods may be used depending on depth. For bid purposes, assume that hollow stem auger drilling methods may be used for borings with anticipated depths less than approximately 50 feet. Sonic methods will be used for depth anticipated to be greater than 50 feet and may be used for shallower wells also. In any case, the Contractor is encouraged to provide two complete drilling operations (drill rigs, crews and support equipment). The driller should have sufficient equipment to be able drill to a depth of 20 feet below the water table, regardless of method.

The Contractor shall prevent, and is in any case responsible for, any hydrocarbon/chemical contamination caused by drilling or well installation. Petroleum based products will not be allowed for lubrication of the downhole equipment.

Only potable water may be used, and supply of water shall be the responsibility of the Contractor. Yakima County owned fire hydrants are available in Buena. The contractor will need to submit an application for water and there is a charge associated.

5.3 Sampling and Borehole Logging

Soil samples will be collected by the Contractor and provided to the Geologist at five-foot intervals, at a change of formation, or at the discretion of the Geologist.

During HSA drilling, a driven 3-inch OD split spoon sampler will be used to collect a soil sample every 5 feet of borehole depth. Extra driven samples may be required, as requested by the Geologist, but not to exceed two extra samples per borehole. At least two drive samplers must be on site during all sampling. The Contractor must confirm that less than 0.5 feet of heave exists inside the auger prior to collecting each sample. Therefore, sampling will proceed ahead of the auger.

During sonic drilling, Contractor shall provide a continuous core, from which the Geologist will describe soils.

Borehole logging will be conducted by the Geologist for the purposes of this project and must also be done by the Contractor for fulfillment of state requirements. The Contractor shall have access to the Geologist's log. The Contractor shall endeavor to provide information on drilling conditions that will assist the Geologist in making determinations of lithology.

5.4 Alignment

Alignment requirements are that sampling pumps can be freely installed in the completed well.

5.5 Boring and Well Decommissioning

Decommissioning of unsuitable boreholes shall be performed by pouring bentonite chips into the borehole to land surface.

Decommissioning of installed wells unusable for reasons of plumbness, obstruction, breakage, off-set, or other construction error, shall be in accordance with WAC 173-160-381 and WAC 173-160-460.

In the event of abandonment because of a dry hole as determined by the Geologist, the Contractor shall be paid for drilling and decommissioning the subject boring. In the event a well is not unusable because of plumbness, obstruction, collapse, breakage, off-set, or construction error, the Contractor will not be paid for the well or associated drilling and will drill a replacement well nearby for which the Contractor will be paid.

5.6 Monitoring Well

Gloves worn by the Contractor while touching the PVC casing and other downhole components shall be new and clean. The PVC shall be cleaned by pressure washing before installation, except for pieces in original sealed packaging, which do not require cleaning. Centralizers shall be placed at the top and bottom of the screen section and every 40 feet in the riser sections.

5.8 Sand Pack Installation

A sand pack will be placed around the monitoring well screens by pouring the sand down the annular space. The Contractor will use techniques to minimize the likelihood of sand pack bridging. Where installation occurs within a cased hole, the casing will be withdrawn as the well is installed. The top of the sand pack will be placed approximately 2 to 3 feet above the well screen.

5.9 Bentonite Seal

Bentonite chips will be placed above the sand pack to ground surface. They shall be installed dry with periodic wetting by pouring water down the borehole. The Contractor will use techniques to minimize the likelihood of bridging.

5.10 Concrete Pad Surface Completion

Flush Mount Well Covers (Section 4.4) shall be held in place by a troweled concrete pad that is 4 inches thick and that extends at least 18-inches laterally from the well cover. The pad shall be sloped to drain rain water away from the well cover.

5.11 Well Development

Contractor shall provide bailers and a submersible electric pump to remove sediment from each well, and to extract water until further reductions in turbidity are minimal, according to Geologist.

5.12 Decontamination

All drilling equipment, tools, and PVC casing shall be decontaminated using a high pressure-washer. The Contractor shall clean drilling equipment before drilling begins, between each boring, and before leaving the site. PVC casing will be cleaned prior to installation and kept clean between the time it is washed and the time it is used in the well. However, PVC in sealed original packaging does not require cleaning.

5.13 Site Restoration

At the conclusion of all work activity, all drilling tools, extra casing, trash, and other materials shall be removed from the site as directed by the Owner or Geologist.

PART 6 - WASTE PRODUCTS

6.1 Drill Cuttings

At most sites, cuttings that are removed from the borings shall be spread at the boring site. At a number of locations identified by the Owner, drill cuttings will be drummed, removed, and disposed of by the Contractor at a location approved by Owner.

6.2 Waste Water

All water associated with drilling, well development, and cleaning activities will be discharged to the ground. Cleaning water from both decontamination of drilling equipment and cleaning of sampling equipment and well materials will be discharged to the ground.

6.3 Miscellaneous

All miscellaneous trash materials such as bentonite bags will be disposed by Contractor in a responsible manner.

PART 7 - HEALTH AND SAFETY

Bidders should assume the work will be conducted in steel-toed rubber boots and gloves and other standard safety equipment, and that respirators and disposable coveralls will not be required. Formal health and safety training per WAC 296-62 Part P is NOT required. However, the Contractor is responsible for preparing and following a general health and safety plan for equipment operation and related drilling activities.

In response to this bid, the Contractor acknowledges that he is familiar with conditions at the project site and has ascertained any Health and Safety requirements of applicable

laws and regulations pertinent to the specific project site conditions. Because of the Contractor's special expertise in heavy equipment operations, measures may be specified by the Contractor for its personnel on site. These specifications shall be communicated to the Geologist. The Geologist and Contractor will communicate regarding all required measures prior to mobilization, and again at the site prior to commencement of work.

PART 8 - MEASUREMENT AND PAYMENT

These bid items will include all equipment, labor, material, mobilization and transportation necessary to complete this work. Any down time incurred by the Contractor, other than that which the Geologist requests, will not be a pay item. Work and material not specifically listed in these specifications but required in other contract documents or required by general practice shall be included in the Contractor's bid. No payment will be made for borings and wells decommissioned without the Geologist's approval, for borings and wells that have not been completed in accordance with WAC 173-160 *Minimum Standards for Construction and Maintenance of Wells* or for borings or wells that will not be useful to the Geologist for sampling and water level measurements.

The items and their corresponding quantities outlined on the bid Proposal form represent the best approximation of the scope of work and are for the specific purpose of comparing bids. No guarantee is made that the bid quantities are correct or that the stated tasks will be performed. The Owner or Geologist reserves the right to vary the quantities or delete items in their entirety, and the Contractor will not be entitled to any extra payment due to such amended quantities or deleted items, except as provided for in the Standard Specifications. However, at this time, every item discussed in this document is expected to be performed.

The items outlined below include costs for drilling and installing monitoring wells. It will be assumed the prices indicated are on a per unit basis and would apply to any additional drilling services.

8.1 Bid Item #1a – Hollow Stem Auger General Mobilization/Demobilization

The lump sum price for Bid Item #1a covers the complete cost of all work, equipment and materials necessary to move and organize Hollow Stem Auger equipment and crew to and from the job site. All drilling equipment shall be cleaned before mobilization takes place. The price will also include providing and maintaining all necessary support facilities and equipment. Payment shall be lump sum for this bid item.

8.2 Bid Item #1b – Sonic General Mobilization/Demobilization

The lump sum price for Bid Item #1b covers the complete cost of all work, equipment and materials necessary to move and organize Sonic Drill Rig equipment and crew to and from the job site. All drilling equipment shall be cleaned before mobilization takes place.

The price will also include providing and maintaining all necessary support facilities and equipment. Payment shall be lump sum for this bid item.

8.3 Bid Item #2 – Site Prep and Setup

The unit price for Bid Item #2 shall include moving, setup, site preparation and decontamination before the first well and between all wells, and shall include permit fees, and crew per diem. Site preparation shall include all necessary ground surface modifications, including brush clearing, displacement or removal. Although all wells are currently located on bare ground, some may be moved to asphalt so cutting tools may be necessary. The contractor will be notified before mobilization if cutting tools are required. The contractor shall clean up each site prior to final acceptance. Payment shall be per-well for this bid item.

8.4 Bid Item # 3a – Drill Hollow Stem Auger Borings

The linear foot price for Bid Item #3a shall include all costs required to drill minimum 6-inch diameter HSA borings for monitoring wells, including collecting drill cuttings and borehole logging. HSA and sonic drilling methods may be used depending on depth. For bid purposes, assume that hollow stem auger drilling methods may be used for borings with anticipated depths less than approximately 50 feet (Table 1). Sonic methods will be used for depths anticipated to be greater than 50 feet. The driller shall have sufficient equipment to be able to drill 20 feet below the water table, regardless of method, which may exceed the anticipated depth. Some wells may require boring through surface asphalt or concrete.

8.5 Bid Item # 3b - Drill Sonic Borings

The linear foot price for Bid Item #3b shall include all costs required to drill minimum 6-inch diameter sonic borings for monitoring wells, including collecting core and borehole logging. The driller shall have sufficient equipment to drill 20 feet below the water table, which may exceed the anticipated depth. Some wells may require boring through surface asphalt or concrete.

8.6 Bid Item #4 – Monitoring Well Casing and Screen

The linear foot price for Bid Item #4 shall cover the complete cost of all materials, labor and equipment necessary to furnish and install the 2-inch PVC monitoring well casing and screen. All ancillary parts such as centralizing devices and end caps shall be included in this bid item. Payment will be per linear foot.

8.7 Bid Item #5 - Sand Pack

The unit price for Bid Item #5 shall cover the complete cost of all materials, labor and equipment necessary to furnish and install the sand pack material in wells. Payment will be per lineal foot installed down the hole. No payment will be made for material lost due to bag breakage or for left-over material.

8.8 Bid Item #6 - Well Seal

The linear foot price for Bid Item #6 shall cover the complete cost of all materials, labor and equipment necessary to construct a well seal. No payment will be made for material lost due to breakage or for left-over material. Payment will be per lineal foot installed down the hole.

8.9 Bid Item #7 - Surface Completion

The unit price for Bid Item #7 shall cover the complete costs of all materials and labor necessary to provide and secure the flush mount well cover, including lockable water proof cap, concrete pad, and marker post per well. Some wells may require patching of concrete or asphalt surface. Payment for patching of concrete or asphalt surfaces will be by change order if required.

8.10 Bid item #8 - Supply 55-Gallon Drum and Dispose of Drill Cuttings

The unit price for Bid Item #8 shall include all costs to supply one 55-gallon drum, fill it with drill cuttings and dispose of soil at an Owner approved location. Payment will be per each 55-gallon drum used to dispose of soil as directed by Geologist.

8.11 Bid Item #9 - Well Development

The hourly price for Bid Item #9 shall cover the complete cost of all materials, labor and equipment necessary to develop the monitoring wells as directed by Geologist.

8.12 Bid Item #10a - Project Temporary Traffic Control – No Flaggers

The unit price for Bid Item #10a shall cover all costs incurred by the Contractor in providing temporary traffic control on each well where flaggers are NOT required, including preparing right-of-way use permit applications and traffic control plans, and providing and erecting construction signs and other traffic control devices.

8.13 Bid Item #10b - Project Temporary Traffic Control – Flaggers

The unit price for Bid Item #10b shall cover all costs incurred by the Contractor in providing temporary traffic control on each well where flaggers ARE required, including preparing right-of-way use permit applications and traffic control plans, providing and erecting construction signs and other traffic control devices, and providing flaggers.

8.14 Bid Item #11 - Minor Changes

Payments or credits for changes amounting to \$10,000 or less may be made under Bid Item #11. At the discretion of Yakima County, the procedure for Minor Changes may be used in lieu of the more formal procedure as outlined in Section 1-04.4 of the Standard Specifications.

APPROXIMATE WELL LOCATIONS

Locations are approximate and are listed here for planning purposes only, pending a survey of the County's right-of-way at each location. Therefore, locations are subject to change. Approximately 20 of the 30 wells will be constructed with priority based on well number and site conditions.

Planned Monitoring Well Installations (1 of 2)						
	Approximate Locations ²					
Well Number ¹	WA State Plane South NAD38 (ft)		NAD38		Estimated Well Depth (ft)	Drilling Technology ³
	X	Y	Latitude	Longitude		
1	1770150.4	359101.4	46.3169247	-119.9865459	30	HSA
2	1757199.8	374752.6	46.3600632	-120.0374369	76	Sonic
3	1780235.2	343097.3	46.2728511	-119.9470780	38	HSA
4	1783090.7	322041.0	46.2150548	-119.9363810	57	Sonic
5	1753703.3	358162.4	46.3146246	-120.0516594	64	Sonic
6	1771954.0	375017.8	46.3605380	-119.9789918	66	Sonic
7	1759071.8	342931.4	46.2727722	-120.0307718	51	Sonic
8	1742486.8	369508.7	46.3459049	-120.0958185	32	HSA
9	1785243.0	364491.3	46.3314195	-119.9266601	78	Sonic
10	1700500.6	404993.3	46.4436803	-120.2616513	108	Sonic
11	1713620.5	393289.4	46.4114653	-120.2097768	165	Sonic
12	1787194.6	334285.5	46.2485503	-119.9198140	81	Sonic
13	1750908.4	385300.0	46.3890847	-120.0621236	135	Sonic
14	1785902.5	354235.5	46.3032830	-119.9243460	82	Sonic
15	1759058.7	388145.6	46.3967592	-120.0297577	125	Sonic
16	1730987.3	369613.2	46.3463439	-120.1413519	39	HSA
17	1675452.6	422569.9	46.4920434	-120.3608915	147	Sonic

Planned Monitoring Well Installations (2 of 2)						
Well Number ¹	WA State Plane South NAD38 (ft)		NAD38		Estimated Well Depth (ft)	Drilling Technology ³
	X	Y	Latitude	Longitude		
18	1791406.1	313038.7	46.1902009	-119.9038023	70	Sonic
19	1691191.3	403739.9	46.4403145	-120.2985932	64	Sonic
20	1763698.7	366838.6	46.3382540	-120.0118901	43	HSA
21	1777636.3	332639.4	46.2442228	-119.9576395	67	Sonic
22	1766919.7	337663.3	46.2581935	-119.9998699	39	HAS
23	1716287.3	385596.3	46.3903417	-120.1993203	55	Sonic
24	1790787.8	343796.8	46.2745586	-119.9053278	59	Sonic
25	1711091.6	401214.4	46.4332223	-120.2196908	200	Sonic
26	1681989.6	415507.1	46.4726414	-120.3349957	165	Sonic
27	1775484.1	348483.3	46.2877103	-119.9657216	38	HSA
28	1779702.3	313762.9	46.1924199	-119.9499944	53	Sonic
29	1745586.2	353673.3	46.3024364	-120.0838762	112	Sonic
30	1764174.3	377434.8	46.3673026	-120.0097462	80	Sonic
Notes: 1. Approximately 20 of the 30 wells listed will be constructed with priority based on well number and site conditions. 2. Locations are approximate and provided for planning purposes only, pending a survey of Yakima County's right-of-way at each locations. Therefore, installation locations are subject to change. 3.HSA: Hollow Stem Auger.						

APPENDIX A

PREVAILING WAGE RATES

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 8/1/2018

County	Trade	Job Classification	Wage	Holiday	Overtime	Note
Yakima	Asbestos Abatement Workers	Journey Level	\$17.83		<u>1</u>	
Yakima	Boilermakers	Journey Level	\$66.54	<u>5N</u>	<u>1C</u>	
Yakima	Brick Mason	Journey Level	\$47.64	<u>5A</u>	<u>1M</u>	
Yakima	Building Service Employees	Janitor	\$11.50		<u>1</u>	
Yakima	Building Service Employees	Shampooer	\$11.50		<u>1</u>	
Yakima	Building Service Employees	Waxer	\$11.50		<u>1</u>	
Yakima	Building Service Employees	Window Cleaner	\$11.50		<u>1</u>	
Yakima	Cabinet Makers (In Shop)	Journey Level	\$16.35		<u>1</u>	
Yakima	Carpenters	Journey Level	\$29.72		<u>1</u>	
Yakima	Cement Masons	Journey Level	\$42.00	<u>7B</u>	<u>1N</u>	
Yakima	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$110.54	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Dive Supervisor/Master	\$72.97	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Diver	\$110.54	<u>5D</u>	<u>4C</u>	<u>8V</u>
Yakima	Divers & Tenders	Diver On Standby	\$67.97	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Diver Tender	\$61.65	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Manifold Operator	\$61.65	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Manifold Operator Mixed Gas	\$66.65	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$61.65	<u>5D</u>	<u>4C</u>	
Yakima	Divers & Tenders	Remote Operated Vehicle Tender	\$57.43	<u>5A</u>	<u>4C</u>	
Yakima	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Yakima	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
Yakima	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Yakima	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Yakima	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	
Yakima	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Yakima	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Yakima	Drywall Applicator	Journey Level	\$42.32	<u>5D</u>	<u>4C</u>	
Yakima	Drywall Tapers	Journey Level	\$38.78	<u>7E</u>	<u>1P</u>	
Yakima	Electrical Fixture Maintenance Workers	Journey Level	\$43.32		<u>1</u>	
Yakima	Electricians - Inside	Cable Splicer	\$63.18	<u>5A</u>	<u>1E</u>	

Yakima	<u>Electricians - Inside</u>	Journey Level	\$61.07	<u>5A</u>	<u>1E</u>	
Yakima	<u>Electricians - Inside</u>	Welder	\$65.28	<u>5A</u>	<u>1E</u>	
Yakima	<u>Electricians - Motor Shop</u>	Craftsman	\$15.37		<u>1</u>	
Yakima	<u>Electricians - Motor Shop</u>	Journey Level	\$14.69		<u>1</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Cable Splicer	\$79.43	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Certified Line Welder	\$69.75	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Groundperson	\$46.28	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Heavy Line Equipment Operator	\$69.75	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Journey Level Lineperson	\$69.75	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Line Equipment Operator	\$59.01	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Meter Installer	\$46.28	<u>5A</u>	<u>4D</u>	<u>8W</u>
Yakima	<u>Electricians - Powerline Construction</u>	Pole Sprayer	\$69.75	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electricians - Powerline Construction</u>	Powderperson	\$52.20	<u>5A</u>	<u>4D</u>	
Yakima	<u>Electronic Technicians</u>	Journey Level	\$23.40		<u>1</u>	
Yakima	<u>Elevator Constructors</u>	Mechanic	\$91.24	<u>7D</u>	<u>4A</u>	
Yakima	<u>Elevator Constructors</u>	Mechanic In Charge	\$98.51	<u>7D</u>	<u>4A</u>	
Yakima	<u>Fabricated Precast Concrete Products</u>	Craftsman - In-Factory Work Only	\$11.50		<u>1</u>	
Yakima	<u>Fabricated Precast Concrete Products</u>	Journey Level - In-Factory Work Only	\$11.50		<u>1</u>	
Yakima	<u>Fence Erectors</u>	Fence Erector	\$13.79		<u>1</u>	
Yakima	<u>Flaggers</u>	Journey Level	\$24.62		<u>1</u>	
Yakima	<u>Glaziers</u>	Journey Level	\$22.43	<u>6I</u>	<u>1B</u>	
Yakima	<u>Heat & Frost Insulators And Asbestos Workers</u>	Journey Level	\$25.32		<u>1</u>	
Yakima	<u>Heating Equipment Mechanics</u>	Journey Level	\$34.85		<u>1</u>	
Yakima	<u>Hod Carriers & Mason Tenders</u>	Journey Level	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	<u>Industrial Power Vacuum Cleaner</u>	Journey Level	\$11.50		<u>1</u>	
Yakima	<u>Inland Boatmen</u>	Journey Level	\$11.50		<u>1</u>	
Yakima	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Cleaner Operator, Foamer Operator	\$11.50		<u>1</u>	
Yakima	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Grout Truck Operator	\$11.50		<u>1</u>	
Yakima	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Head Operator	\$12.78		<u>1</u>	
Yakima	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Technician	\$11.50		<u>1</u>	

Yakima	<u>Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control</u>	Tv Truck Operator	\$11.50		<u>1</u>	
Yakima	<u>Insulation Applicators</u>	Journey Level	\$42.32	<u>5D</u>	<u>4C</u>	
Yakima	<u>Ironworkers</u>	Journeyman	\$59.40	<u>7N</u>	<u>10</u>	
Yakima	<u>Laborers</u>	Air, Gas Or Electric Vibrating Screed	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Airtrac Drill Operator	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Ballast Regular Machine	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Batch Weighman	\$35.34	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Brick Pavers	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Brush Cutter	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Brush Hog Feeder	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Burner	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Caisson Worker	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Carpenter Tender	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Cement Dumper-paving	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Cement Finisher Tender	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Change House Or Dry Shack	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Chipping Gun (under 30 Lbs.)	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Chipping Gun(30 Lbs. And Over)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Choker Setter	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Chuck Tender	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Clary Power Spreader	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Clean-up Laborer	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Concrete Dumper/chute Operator	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Concrete Form Stripper	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Concrete Placement Crew	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Concrete Saw Operator/core Driller	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Crusher Feeder	\$35.34	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Curing Laborer	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Demolition: Wrecking & Moving (incl. Charred Material)	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Ditch Digger	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Diver	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Drill Operator (hydraulic,diamond)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Dry Stack Walls	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Dump Person	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Epoxy Technician	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Erosion Control Worker	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Faller & Bucker Chain Saw	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Fine Graders	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Firewatch	\$35.34	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Form Setter	\$37.63	<u>7A</u>	<u>3I</u>	

Yakima	Laborers	Gabian Basket Builders	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	General Laborer	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Grade Checker & Transit Person	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Grinders	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Grout Machine Tender	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Groutmen (pressure)including Post Tension Beams	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Guage and Lock Tender	\$38.83	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Yakima	Laborers	Guardrail Erector	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Hazardous Waste Worker (level A)	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Hazardous Waste Worker (level B)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Hazardous Waste Worker (level C)	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	High Scaler	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Jackhammer	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Laserbeam Operator	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Maintenance Person	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Manhole Builder-mudman	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Material Yard Person	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Motorman-dinky Locomotive	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunit, Shotcrete, Water Bla	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pavement Breaker	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pilot Car	\$35.34	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pipe Layer(lead)	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pipe Layer/tailor	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pipe Pot Tender	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pipe Reliner	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pipe Wrapper	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Pot Tender	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Powderman	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Powderman's Helper	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Power Jacks	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Railroad Spike Puller - Power	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Raker - Asphalt	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Re-timberman	\$38.73	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Remote Equipment Operator	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Rigger/signal Person	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Rip Rap Person	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Rivet Buster	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	Laborers	Rodder	\$38.27	<u>7A</u>	<u>3I</u>	

Yakima	<u>Laborers</u>	Scaffold Erector	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Scale Person	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Sloper (over 20")	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Sloper Sprayer	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Spreader (concrete)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Stake Hopper	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Stock Piler	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Tamper & Similar Electric, Air & Gas Operated Tools	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Tamper (multiple & Self-propelled)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Timber Person - Sewer (lagger, Shorer & Cribber)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Toolroom Person (at Jobsite)	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Topper	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Track Laborer	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Track Liner (power)	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Traffic Control Laborer	\$37.46	<u>7A</u>	<u>3I</u>	<u>8R</u>
Yakima	<u>Laborers</u>	Traffic Control Supervisor	\$37.46	<u>7A</u>	<u>3I</u>	<u>8R</u>
Yakima	<u>Laborers</u>	Truck Spotter	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Tugger Operator	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Tunnel Work-Miner	\$38.83	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Yakima	<u>Laborers</u>	Vibrator	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Vinyl Seamer	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Watchman	\$32.24	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Welder	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Well Point Laborer	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers</u>	Window Washer/cleaner	\$32.24	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers - Underground Sewer & Water</u>	General Laborer & Topman	\$37.63	<u>7A</u>	<u>3I</u>	
Yakima	<u>Laborers - Underground Sewer & Water</u>	Pipe Layer	\$38.27	<u>7A</u>	<u>3I</u>	
Yakima	<u>Landscape Construction</u>	Irrigation Or Lawn Sprinkler Installers	\$11.50		<u>1</u>	
Yakima	<u>Landscape Construction</u>	Landscape Equipment Operators Or Truck Drivers	\$15.45		<u>1</u>	
Yakima	<u>Landscape Construction</u>	Landscaping Or Planting Laborers	\$11.50		<u>1</u>	
Yakima	<u>Lathers</u>	Journey Level	\$42.32	<u>5D</u>	<u>4C</u>	
Yakima	<u>Marble Setters</u>	Journey Level	\$47.64	<u>5A</u>	<u>1M</u>	
Yakima	<u>Metal Fabrication (In Shop)</u>	Fitter	\$12.00		<u>1</u>	
Yakima	<u>Metal Fabrication (In Shop)</u>	Laborer	\$11.50		<u>1</u>	
Yakima	<u>Metal Fabrication (In Shop)</u>	Machine Operator	\$11.50		<u>1</u>	
Yakima	<u>Metal Fabrication (In Shop)</u>	Painter	\$12.00		<u>1</u>	
Yakima	<u>Metal Fabrication (In Shop)</u>	Welder	\$11.50		<u>1</u>	
Yakima	<u>Millwright</u>	Journey Level	\$26.05		<u>1</u>	
Yakima	<u>Modular Buildings</u>	Journey Level	\$14.11		<u>1</u>	
Yakima	<u>Painters</u>	Journey Level	\$33.40	<u>6Z</u>	<u>1W</u>	

Yakima	Pile Driver	Journey Level	\$55.84	<u>5D</u>	<u>4C</u>	
Yakima	Plasterers	Journey Level	\$54.89	<u>7Q</u>	<u>1R</u>	
Yakima	Playground & Park Equipment Installers	Journey Level	\$11.50		<u>1</u>	
Yakima	Plumbers & Pipefitters	Journey Level	\$78.33	<u>6Z</u>	<u>1Q</u>	
Yakima	Power Equipment Operators	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	Power Equipment Operators		\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons				
Yakima	<u>Power Equipment Operators</u>	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

Yakima	<u>Power Equipment Operators</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>		\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons				
Yakima	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators</u>	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Asphalt Plant Operators	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Assistant Engineer	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Barrier Machine (zipper)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Batch Plant Operator, Concrete	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Bobcat	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Brokk - Remote Demolition Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Brooms	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Bump Cutter	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cableways	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Chipper	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Compressor	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>

Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Finish Machine -laser Screed	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Conveyors	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes Friction: 200 tons and over	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 20 Tons Through 44 Tons With Attachments	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: A-frame - 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Friction cranes through 199 tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Crusher	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Deck Engineer/deck Winches (power)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Derricks, On Building Work	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Dozers D-9 & Under	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drill Oilers: Auger Type, Truck Or Crane Mount	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Drilling Machine	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Elevator And Man-lift: Permanent And Shaft Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklift: 3000 Lbs And Over With Attachments	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Forklifts: Under 3000 Lbs. With Attachments	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Gradechecker/stakeman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Guardrail Punch	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Locator	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Horizontal/directional Drill Operator	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks Over 10 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Hydralifts/boom Trucks, 10 Tons And Under	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead 8 Yards. & Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Overhead Under 6 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders, Plant Feed	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Loaders: Elevating Type Belt	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Locomotives, All	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Material Transfer Device	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Motor Patrol Graders	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>

Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 100 Tons And Over	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pavement Breaker	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pile Driver (other Than Crane Mount)	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Plant Oiler - Asphalt, Crusher	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Posthole Digger, Mechanical	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Power Plant	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Pumps - Water	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quad 9, Hd 41, D10 And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger And Bellman	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rigger/Signal Person, Bellman (Certified)	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Rollagon	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Other Than Plant Mix	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roller, Plant Mix Or Multi-lift Materials	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Roto-mill, Roto-grinder	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Saws - Concrete	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scraper, Self Propelled Under 45 Yards	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers - Concrete & Carry All	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Scrapers, Self-propelled: 45 Yards And Over	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Service Engineers - Equipment	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shotcrete/gunite Equipment	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima			\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>

	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons				
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Slipform Pavers	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Spreader, Topsider & Screedman	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Subgrader Trimmer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Bucket Elevators	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane Up To 175' In Height Base To Boom	\$61.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Crane: over 175' through 250' in height, base to boom	\$61.72	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Tower Cranes: over 250' in height from base to boom	\$62.33	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Transporters, All Track Or Truck Type	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Trenching Machines	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver - 100 Tons And Over	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Crane Oiler/driver Under 100 Tons	\$59.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Truck Mount Portable Conveyor	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Welder	\$60.49	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Wheel Tractors, Farmall Type	\$56.90	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Equipment Operators- Underground Sewer & Water</u>	Yo Yo Pay Dozer	\$59.96	<u>7A</u>	<u>3C</u>	<u>8P</u>
Yakima	<u>Power Line Clearance Tree Trimmers</u>	Journey Level In Charge	\$50.02	<u>5A</u>	<u>4A</u>	
Yakima	<u>Power Line Clearance Tree Trimmers</u>	Spray Person	\$47.43	<u>5A</u>	<u>4A</u>	
Yakima	<u>Power Line Clearance Tree Trimmers</u>	Tree Equipment Operator	\$50.02	<u>5A</u>	<u>4A</u>	
Yakima	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer	\$44.64	<u>5A</u>	<u>4A</u>	
Yakima	<u>Power Line Clearance Tree Trimmers</u>	Tree Trimmer Groundperson	\$33.67	<u>5A</u>	<u>4A</u>	
Yakima		Journey Level	\$28.11		1	

	<u>Refrigeration & Air Conditioning Mechanics</u>				
Yakima	<u>Residential Brick Mason</u>	Journey Level	\$29.00		<u>1</u>
Yakima	<u>Residential Carpenters</u>	Journey Level	\$17.14		<u>1</u>
Yakima	<u>Residential Cement Masons</u>	Journey Level	\$11.86		<u>1</u>
Yakima	<u>Residential Drywall Applicators</u>	Journey Level	\$18.00		<u>1</u>
Yakima	<u>Residential Drywall Tapers</u>	Journey Level	\$17.00		<u>1</u>
Yakima	<u>Residential Electricians</u>	Journey Level	\$21.98		<u>1</u>
Yakima	<u>Residential Glaziers</u>	Journey Level	\$22.43	<u>6I</u>	<u>1B</u>
Yakima	<u>Residential Insulation Applicators</u>	Journey Level	\$14.38		<u>1</u>
Yakima	<u>Residential Laborers</u>	Journey Level	\$11.50		<u>1</u>
Yakima	<u>Residential Marble Setters</u>	Journey Level	\$29.00		<u>1</u>
Yakima	<u>Residential Painters</u>	Journey Level	\$16.32		<u>1</u>
Yakima	<u>Residential Plumbers & Pipefitters</u>	Journey Level	\$20.55		<u>1</u>
Yakima	<u>Residential Refrigeration & Air Conditioning Mechanics</u>	Journey Level	\$28.11		<u>1</u>
Yakima	<u>Residential Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$42.52	<u>5A</u>	<u>1X</u>
Yakima	<u>Residential Soft Floor Layers</u>	Journey Level	\$17.55		<u>1</u>
Yakima	<u>Residential Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$11.50		<u>1</u>
Yakima	<u>Residential Stone Masons</u>	Journey Level	\$16.00		<u>1</u>
Yakima	<u>Residential Terrazzo Workers</u>	Journey Level	\$11.50		<u>1</u>
Yakima	<u>Residential Terrazzo/Tile Finishers</u>	Journey Level	\$17.00		<u>1</u>
Yakima	<u>Residential Tile Setters</u>	Journey Level	\$16.78		<u>1</u>
Yakima	<u>Roofers</u>	Journey Level	\$12.00		<u>1</u>
Yakima	<u>Sheet Metal Workers</u>	Journey Level (Field or Shop)	\$57.81	<u>5A</u>	<u>1X</u>
Yakima	<u>Sign Makers & Installers (Electrical)</u>	Journey Level	\$14.65		<u>1</u>
Yakima	<u>Sign Makers & Installers (Non-Electrical)</u>	Journey Level	\$14.65		<u>1</u>
Yakima	<u>Soft Floor Layers</u>	Journey Level	\$23.11	<u>5A</u>	<u>1N</u>
Yakima	<u>Solar Controls For Windows</u>	Journey Level	\$11.50		<u>1</u>
Yakima	<u>Sprinkler Fitters (Fire Protection)</u>	Journey Level	\$26.43		<u>1</u>
Yakima	<u>Stage Rigging Mechanics (Non Structural)</u>	Journey Level	\$13.23		<u>1</u>
Yakima	<u>Stone Masons</u>	Journey Level	\$47.64	<u>5A</u>	<u>1M</u>
Yakima	<u>Street And Parking Lot Sweeper Workers</u>	Journey Level	\$11.50		<u>1</u>
Yakima	<u>Surveyors</u>	Assistant Construction Site Surveyor	\$59.49	<u>7A</u>	<u>3C</u> <u>8P</u>
Yakima	<u>Surveyors</u>	Chainman	\$58.93	<u>7A</u>	<u>3C</u> <u>8P</u>
Yakima	<u>Surveyors</u>	Construction Site Surveyor	\$60.49	<u>7A</u>	<u>3C</u> <u>8P</u>
Yakima	<u>Telecommunication Technicians</u>	Journey Level	\$20.00		<u>1</u>
Yakima		Cable Splicer	\$40.52	<u>5A</u>	<u>2B</u>

	<u>Telephone Line Construction - Outside</u>				
Yakima	<u>Telephone Line Construction - Outside</u>	Hole Digger/Ground Person	\$22.78	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Installer (Repairer)	\$38.87	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Special Aparatus Installer I	\$40.52	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Special Apparatus Installer II	\$39.73	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Heavy)	\$40.52	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Telephone Equipment Operator (Light)	\$37.74	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Telephone Lineperson	\$37.74	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Television Groundperson	\$21.60	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Television Lineperson/Installer	\$28.68	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Television System Technician	\$34.10	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Television Technician	\$30.69	<u>5A</u>	<u>2B</u>
Yakima	<u>Telephone Line Construction - Outside</u>	Tree Trimmer	\$37.74	<u>5A</u>	<u>2B</u>
Yakima	<u>Terrazzo Workers</u>	Journey Level	\$40.90	<u>5A</u>	<u>1M</u>
Yakima	<u>Tile Setters</u>	Journey Level	\$40.90	<u>5A</u>	<u>1M</u>
Yakima	<u>Tile, Marble & Terrazzo Finishers</u>	Journey Level	\$33.33	<u>5A</u>	<u>1M</u>
Yakima	<u>Traffic Control Stripers</u>	Journey Level	\$45.43	<u>7A</u>	<u>1K</u>
Yakima	<u>Truck Drivers</u>	Asphalt Mix	\$14.19		<u>1</u>
Yakima	<u>Truck Drivers</u>	Dump Truck & Trailer(c.wa-760)	\$41.41	<u>6I</u>	<u>2G</u>
Yakima	<u>Truck Drivers</u>	Dump Truck(c.wa-760)	\$41.41	<u>6I</u>	<u>2G</u>
Yakima	<u>Truck Drivers</u>	Other Trucks(c.wa-760)	\$41.41	<u>6I</u>	<u>2G</u>
Yakima	<u>Truck Drivers</u>	Transit Mixer	\$38.96		<u>1</u>
Yakima	<u>Well Drillers & Irrigation Pump Installers</u>	Irrigation Pump Installer	\$25.44		<u>1</u>
Yakima	<u>Well Drillers & Irrigation Pump Installers</u>	Oiler	\$11.50		<u>1</u>
Yakima	<u>Well Drillers & Irrigation Pump Installers</u>	Well Driller	\$18.00		<u>1</u>

Benefit Code Key – Effective 3/3/2018 thru 8/30/2018

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- S. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays and all other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - C. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at two times the hourly rate of wage.
 - F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
 - G. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
 - O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
 - R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
 - U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
 - W. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The first eight (8) hours worked on the fifth day shall be paid at one and one-half times the hourly rate of wage. All other hours worked on the fifth, sixth, and seventh days and on holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. Hours worked over twelve hours (12) in a single shift and all work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay. Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift. The employer shall have the sole discretion to assign overtime work to employees. Primary consideration for overtime work shall be given to employees regularly assigned to the work to be performed on overtime situations. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
 - C. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays shall be paid at double the hourly rate of wage. After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

3.
 - E. All hours worked Sundays and holidays shall be paid at double the hourly rate of wage. Each week, once 40 hours of straight time work is achieved, then any hours worked over 10 hours per day Monday through Saturday shall be paid at double the hourly wage rate.
 - F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
 - H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
 - I. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions during a five day work week (Monday through Friday,) or a four day-ten hour work week (Tuesday through Friday,) then Saturday may be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
 - B. All hours worked over twelve (12) hours per day and all hours worked on holidays shall be paid at double the hourly rate of wage.
 - C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

Overtime Codes Continued

4. D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- F. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. All hours worked on Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- H. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

Holiday Codes Continued

5. D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
- S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
- T. Paid Holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, Christmas Day, And The Day Before Or After Christmas (9).
- Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
6. A. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- E. Paid Holidays: New Year's Day, Day Before Or After New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and a Half-Day On Christmas Eve Day. (9 1/2).
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

Holiday Codes Continued

6. H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
I. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, And Christmas Day (7).
T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- M. Paid Holidays: New Year's Day, The Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, And the Day after or before Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- R. Paid Holidays: New Year's Day, the day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day after or before Christmas Day (10). If any of the listed holidays fall on Saturday, the preceding Friday shall be observed as the holiday. If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

Holiday Codes Continued

- T. Paid Holidays: New Year's Day, the Day after or before New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and The Day after or before Christmas Day. (10). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- P. Workers on hazmat projects receive additional hourly premiums as follows -Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, And Class D Suit \$0.50.
- Q. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.
- R. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

Note Codes Continued

8. U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.
- V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.
- Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.
- Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.
- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

APPENDIX B
PROPERTY RELEASE FORM

PROPERTY RELEASE

(Property Address)

DATE: _____

I, _____, owner of _____
(Property Owner's Name) (Property Description or

_____, hereby release
Address)

_____, from any property
(Contractor's Name)

damage or personal injury resulting from construction adjacent

to or on my property located at _____,
(Property Address)

during construction of the Lower Yakima Valley GWMA Monitoring Wells Project.

My signature below is my acknowledgment and acceptance that my property, as identified above,
was returned to a satisfactory condition.

Name: _____

Signed: _____

Address: _____

Phone: _____

APPENDIX C
RIGHT-OF-WAY USE PERMIT
APPLICATION



RIGHT OF WAY USE INFORMATION FORM

County Roads

Form # CR0001 B
Revised 02/02/2016

Yakima County Public Services
128 North Second Street · Fourth Floor Courthouse · Yakima, Washington 98901
(509) 574-2300 · 1-800 572-7354 · FAX (509) 574-2301 · www.co.yakima.wa.us

Office Use Only:

Permit No. _____

Date _____

Received by _____

Name of Owner (Utility and/or Private)

Name

Address of Owner (Utility and/or Private)

Street/P.O. Box

Apt. #

City

State

Zip

Phone No. of Owner (Utility and/or Private)

() _____

Email of Owner (Utility and/or Private)

Name of person/contractor in charge of work:

Name

Title

() _____

Phone

Email

Emergency contact person (24 hours)

() _____

Name

Phone

Title

Approximate Start date of work: _____ Approximate End date of work: _____

(Note: Per Permit Condition No. 3, the work shall begin within 30 days after the granting of the permit and be completed within six (6) months of granting the permit or permit shall be terminated.)

Hours of Work/Construction (Daylight hours only) _____ AM/PM Until _____ AM/PM

Location of Work: (i.e., road name location(s) of where work is to be performed, approximate distances to nearby intersection, etc)

Please attach vicinity map: _____

Description of work: (i.e., crossing of roadway with pipe or installation of sewer/or water mains, etc.)

Construction methods to be utilized: (i.e., boring under roadway, trenching across roadway, plowing along side of roadway, etc.) _____

Traffic Control Plan (Must Attach Copy of Proposed Traffic Control Plan) - The Traffic Control Plan shall be site specific.

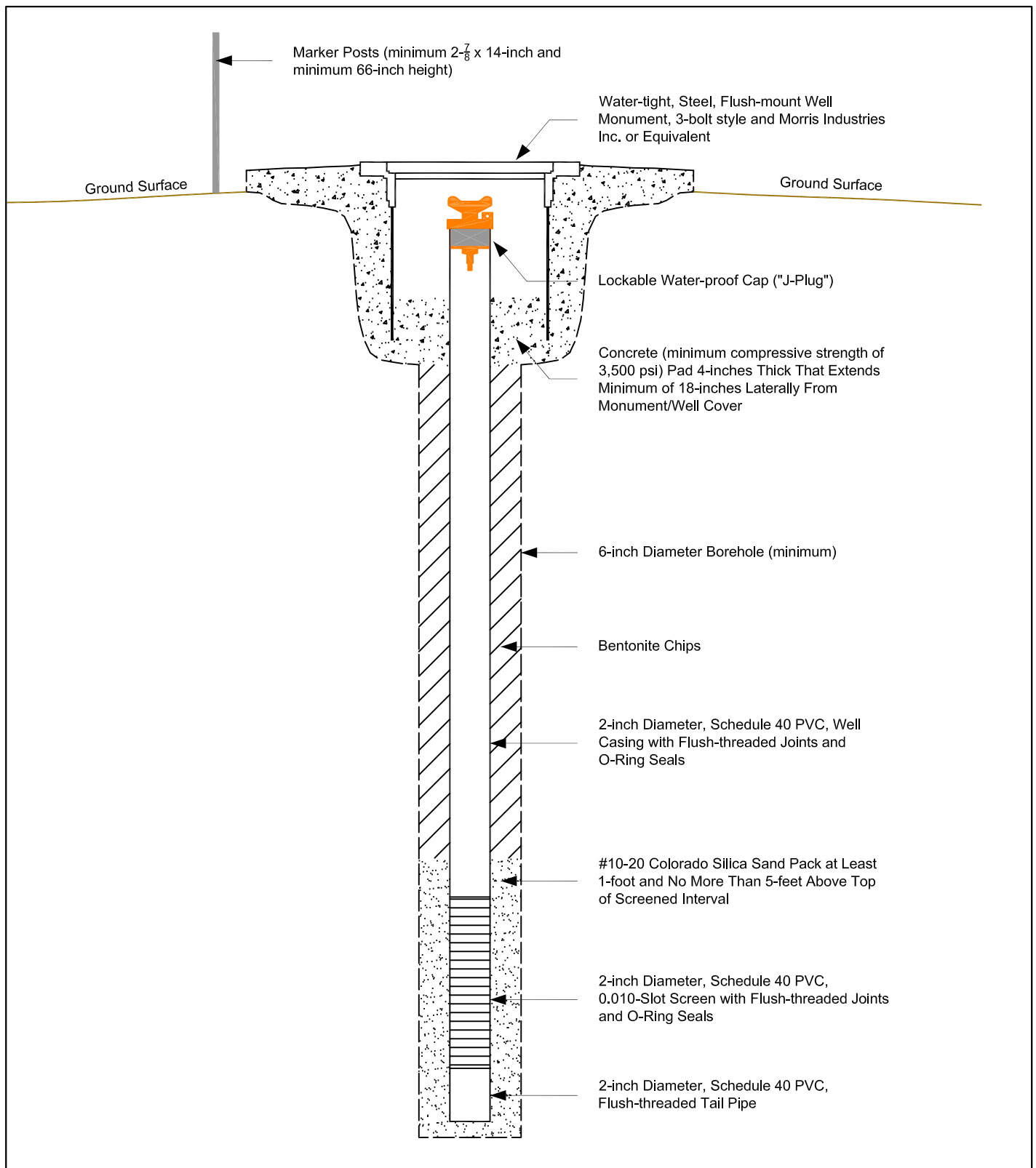
The Traffic Control Plan shall include the following minimum information:

1. Size of work area
2. Distance from work area to the following items:
 - a. Edge of road
 - b. Edge of traveled way
 - c. Center of roadway
 - d. Any intersecting roadway with 2,000 feet of work area
3. Any Signing:
 - a. Sign locations
 - b. Sign size
 - e. Sign spacing
 - f. Signing for any intersecting roadways within signing locations
3. If a one-lane closure is used:
 - a. Number and location of flaggers
 - b. Location and type of channelizing devices
 - c. Length of buffer area
 - g. Length of transition taper
 - f. Length of termination taper
 - g. Plan for each direction of travel (or for each lane closure)

General Note: All work, traffic control devices and their application must comply with the most current version of the MUTCD and the Washington State Department of Transportation's "Standard Specifications for Road Bridge and Municipal Construction".

APPENDIX D

WELL DETAILS



Not To Scale

Any substantive differences between this schematic and WAC 173-160 shall be resolved in favor of the WAC

FIGURE 1
Monitoring Well Schematic

Groundwater Monitoring Well Installation
Yakima County GWMA

JE1803, MonWellSchematic.dwg, March 2018

PgG

APPENDIX E

PRELIMINARY DRILL SITES

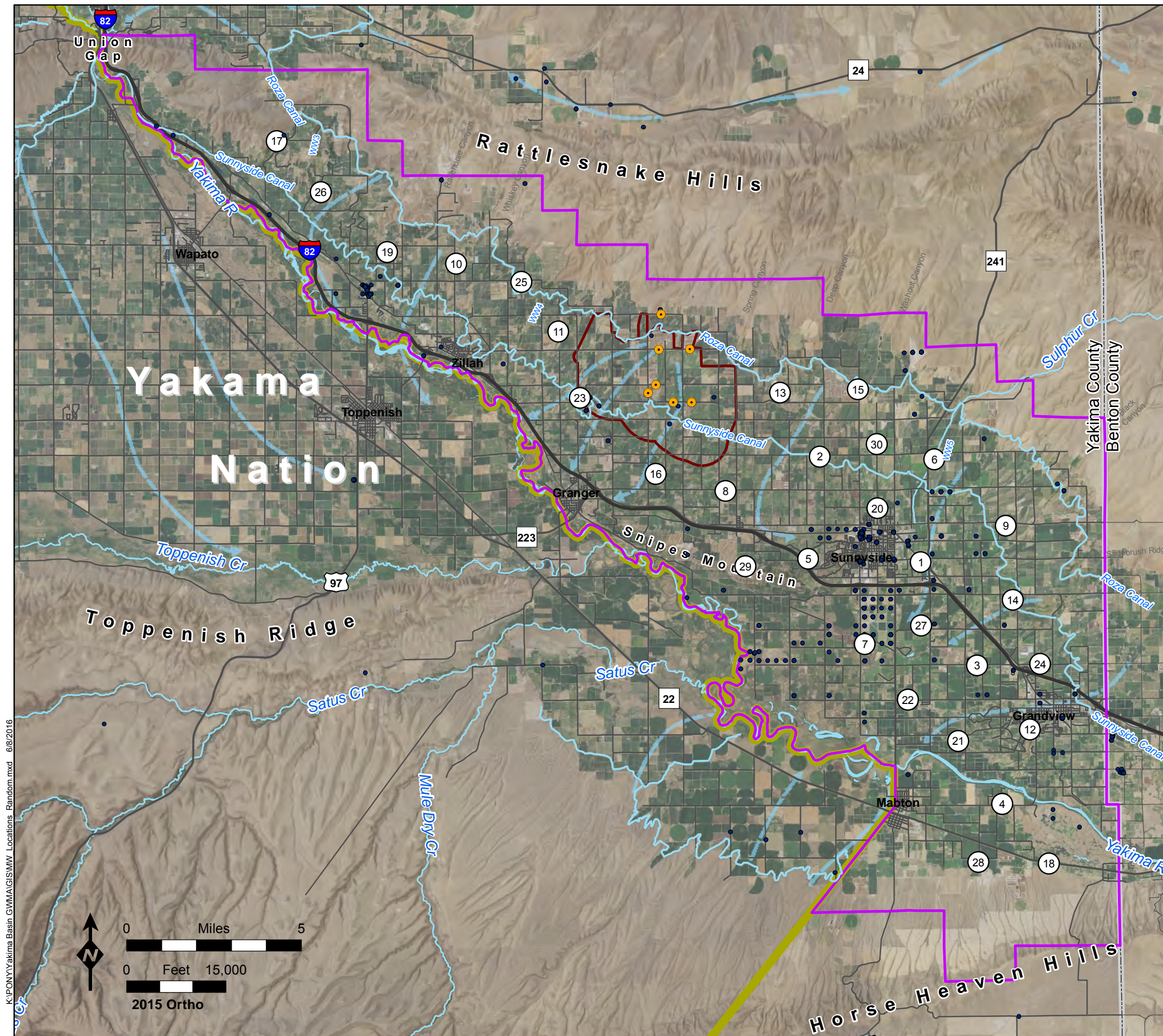


Figure 1
General Well Locations 1 – 30

- General Well Locations
- EPA Monitoring Wells
- Existing Public Monitoring Wells (from EIM and Well Log Databases)
- GWMA Boundary
- EPA Dairy Cluster Buffer Boundary
- Yakama Nation Boundary (from Yakima County)
- General Groundwater Flow Direction (from USGS)

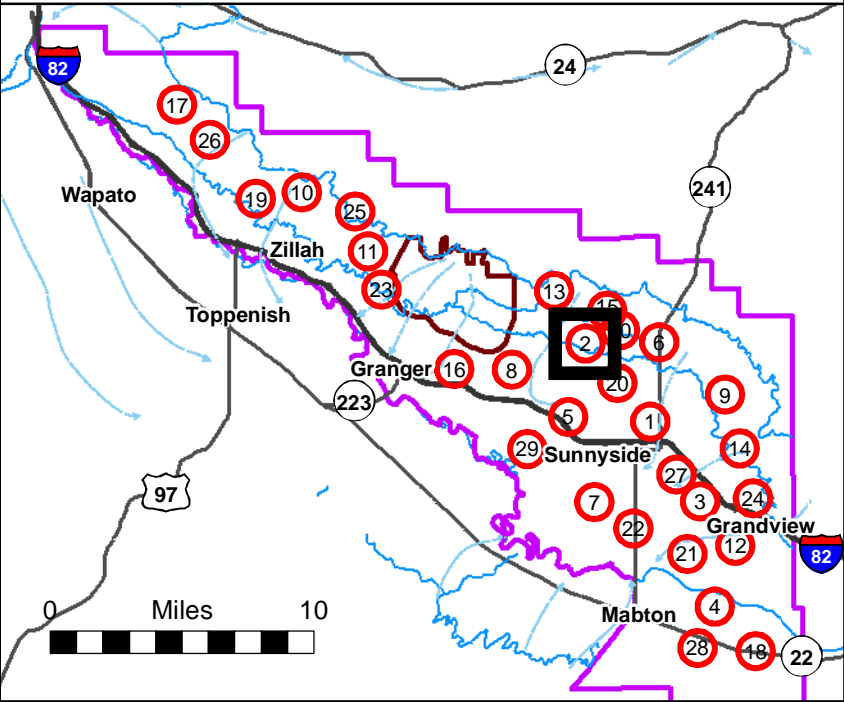
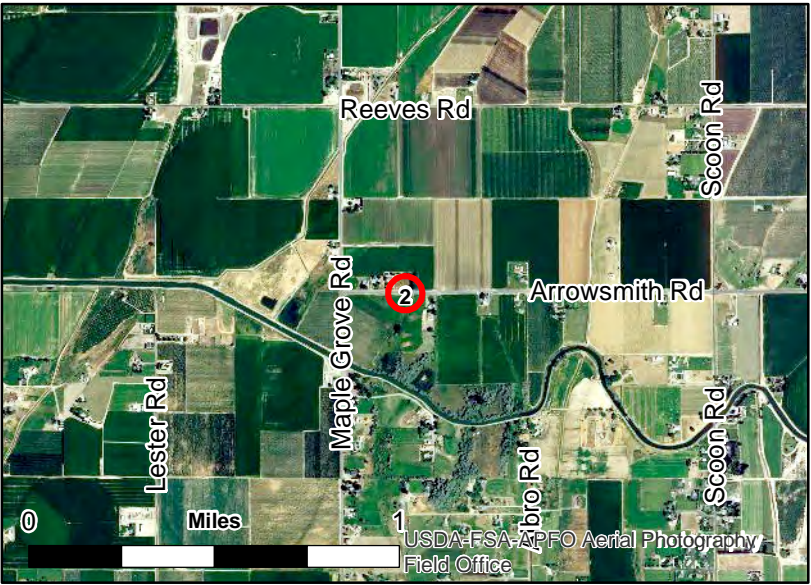


Site 2 Preliminary Drill Site and Field Located Site



- Field Located MW Site Stake
- Canals & Lateral Lines



Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



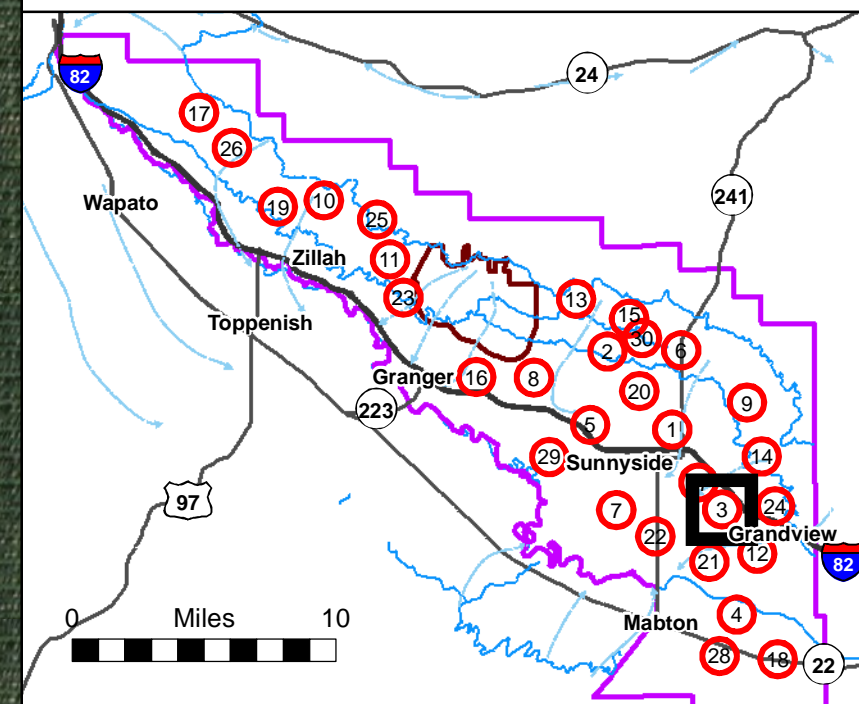
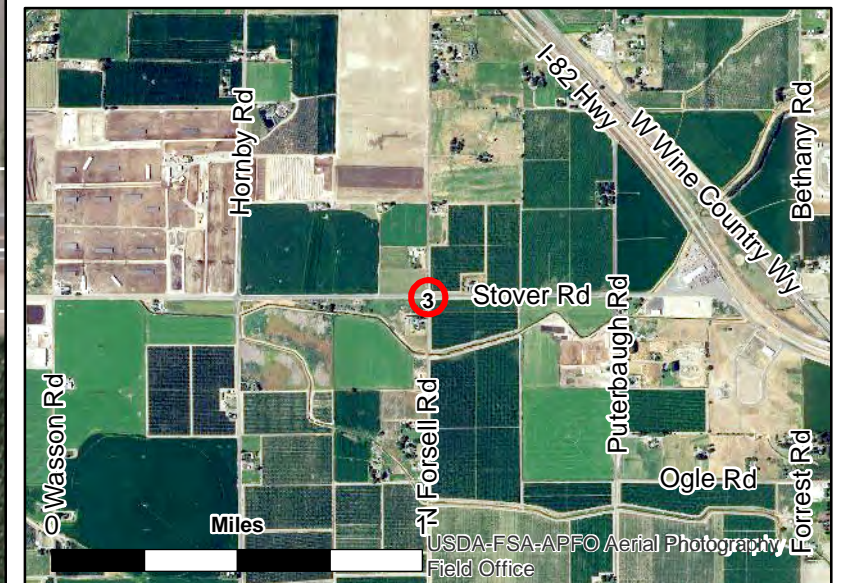


Site 3 Preliminary Drill Site and Field Located Site

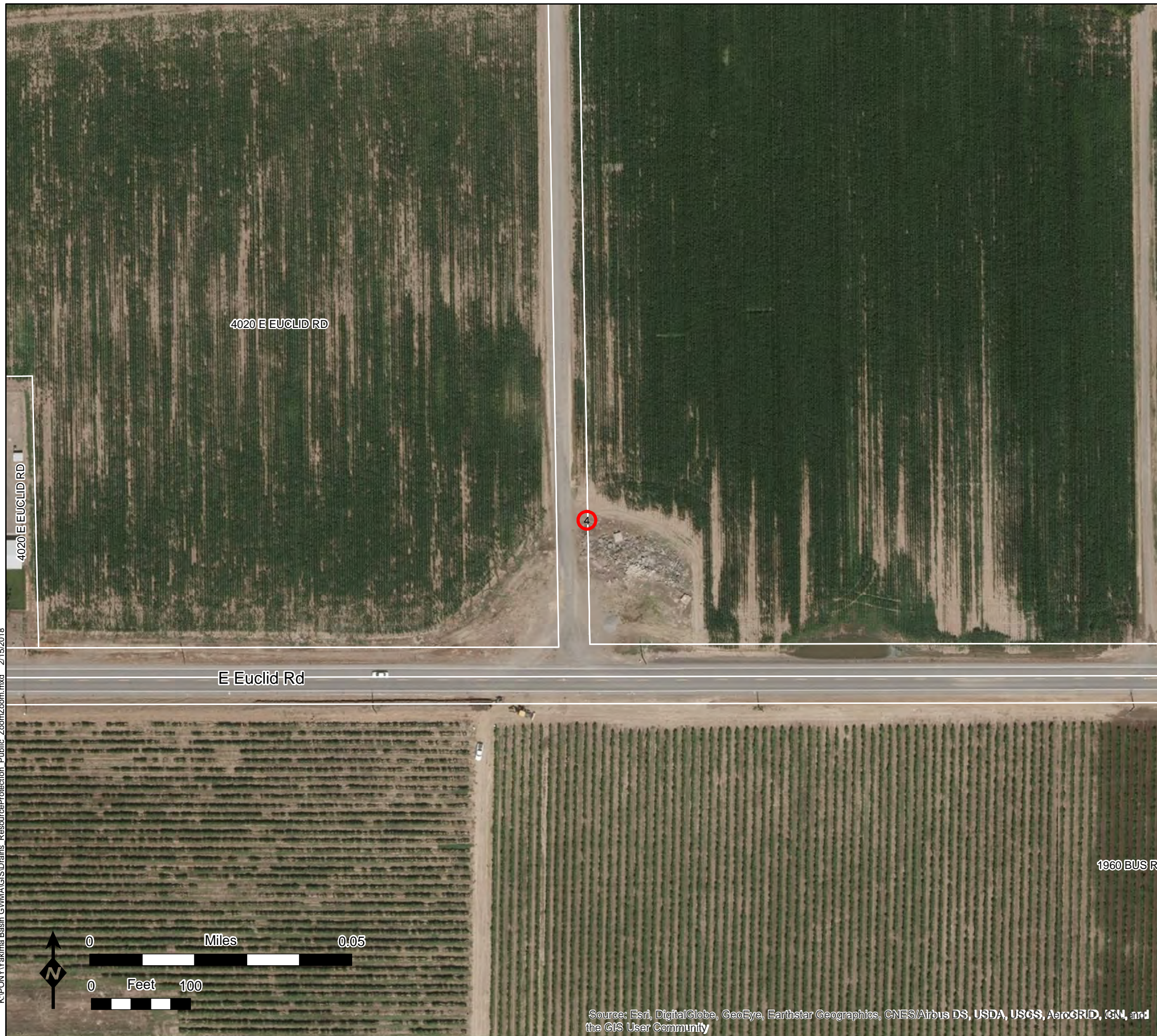


-  Field Located MW Site Stake
-  Joint Drains (JD_Lines)

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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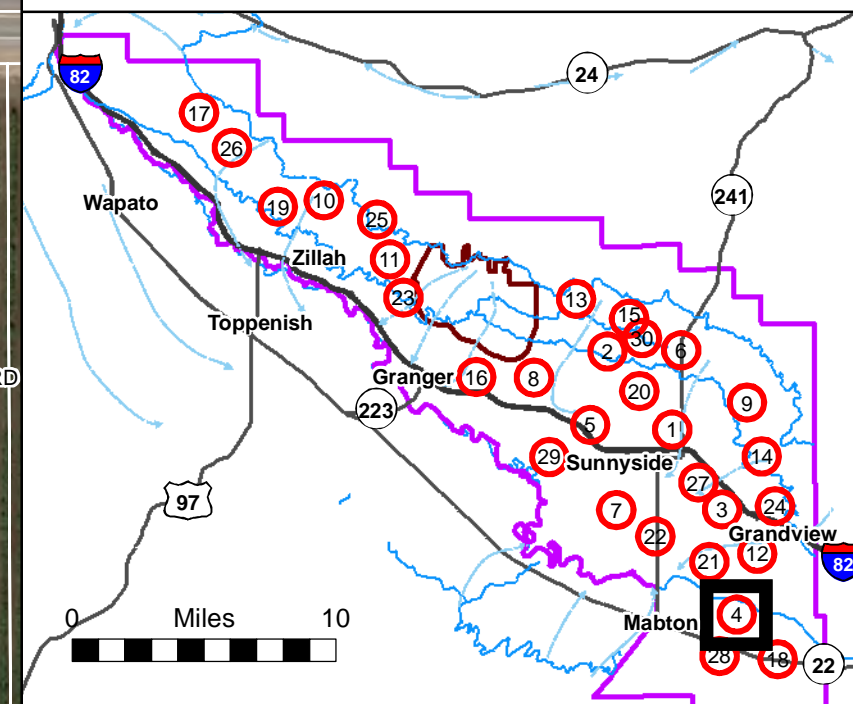
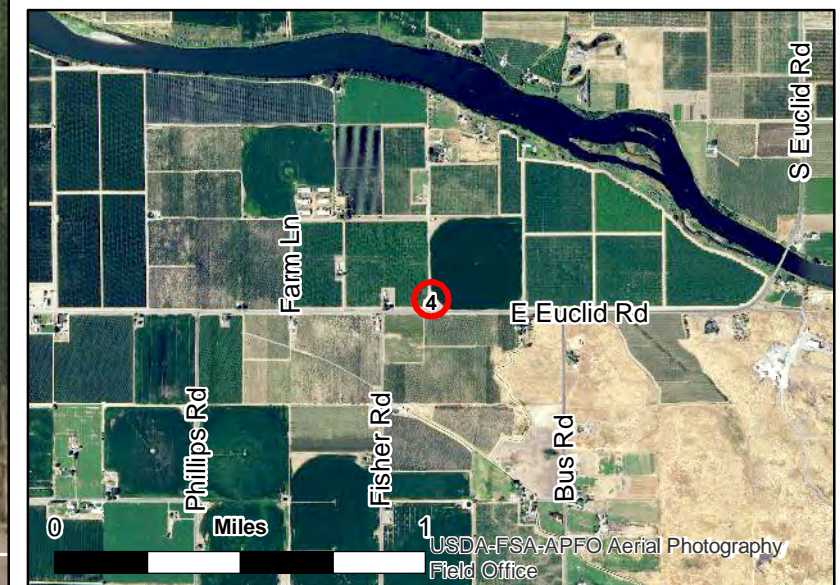


Site 4 Preliminary Drill Site and Field Located Site



 Field Located MW Site Stake

Parcel Data from Country. Does not necessarily
reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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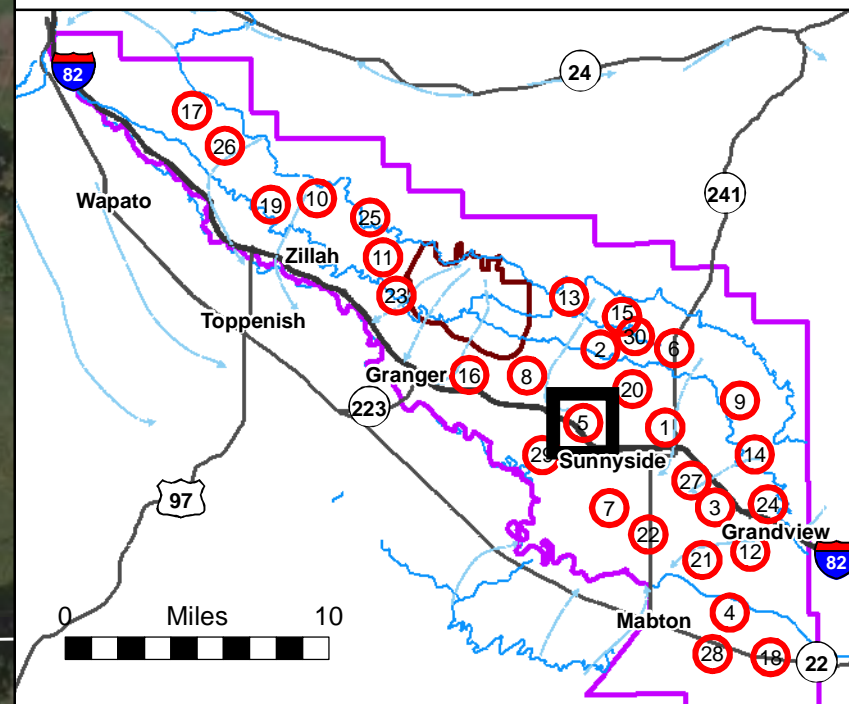
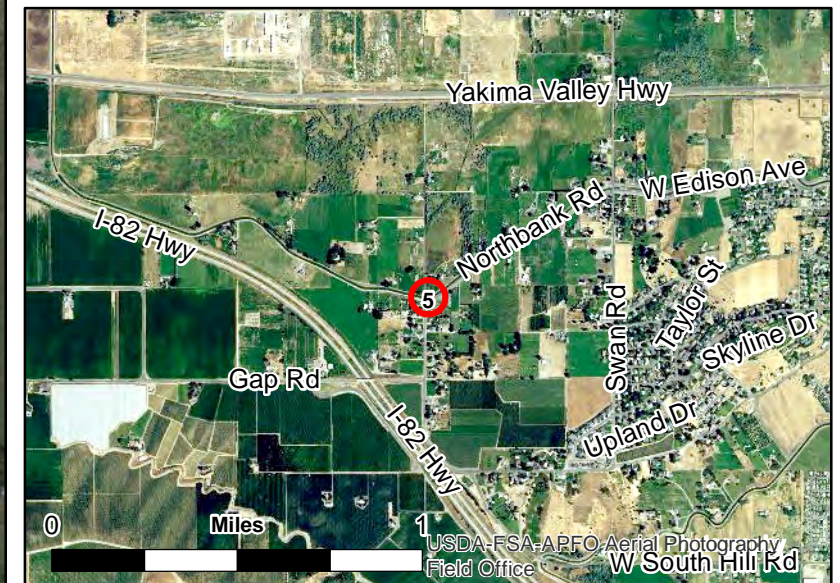


Site 5 Preliminary Drill Site and Field Located Site

PGG

- Field Located MW Site Stake
- Canals & Lateral Lines
- Drain Lines (DR_Lines)

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

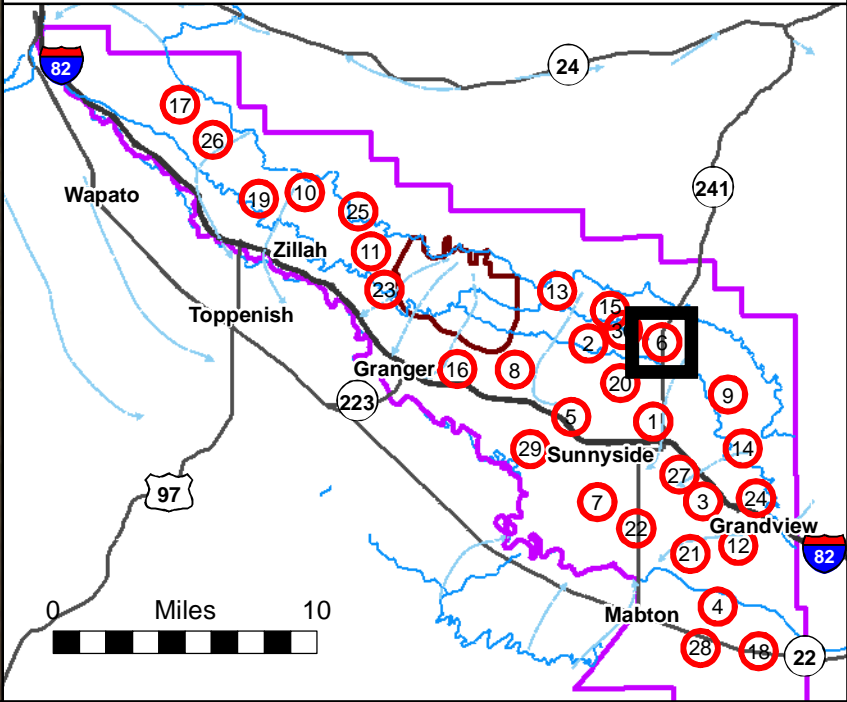
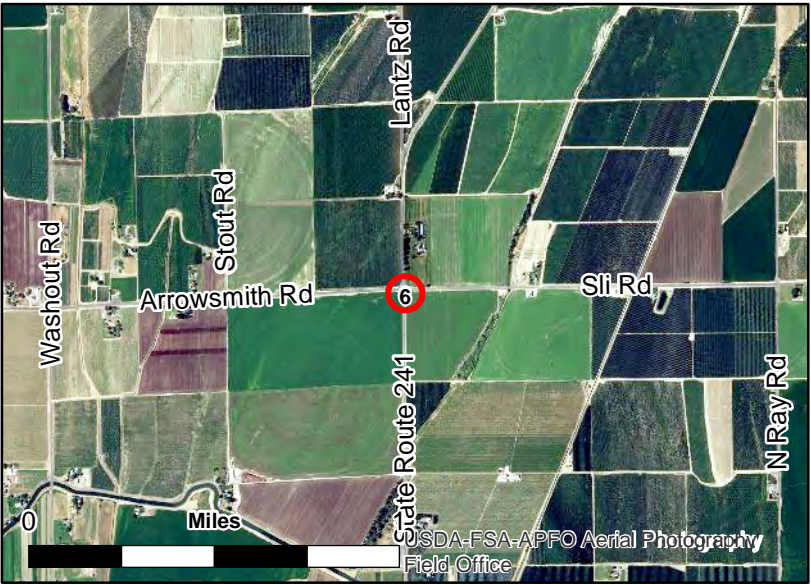


Site 6 Preliminary Drill Site and Field Located Site



Field Located MW Site Stake



Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



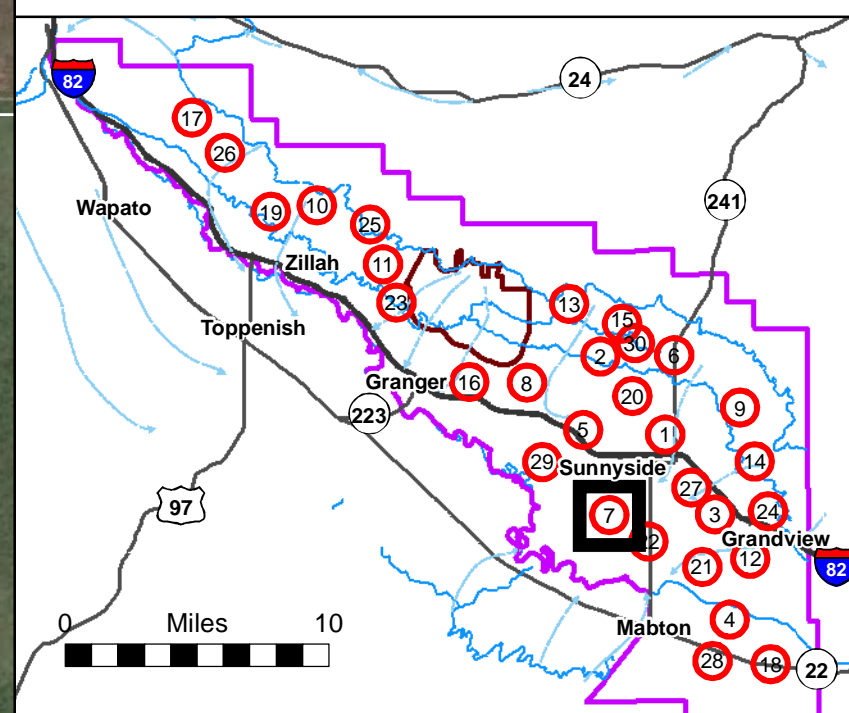
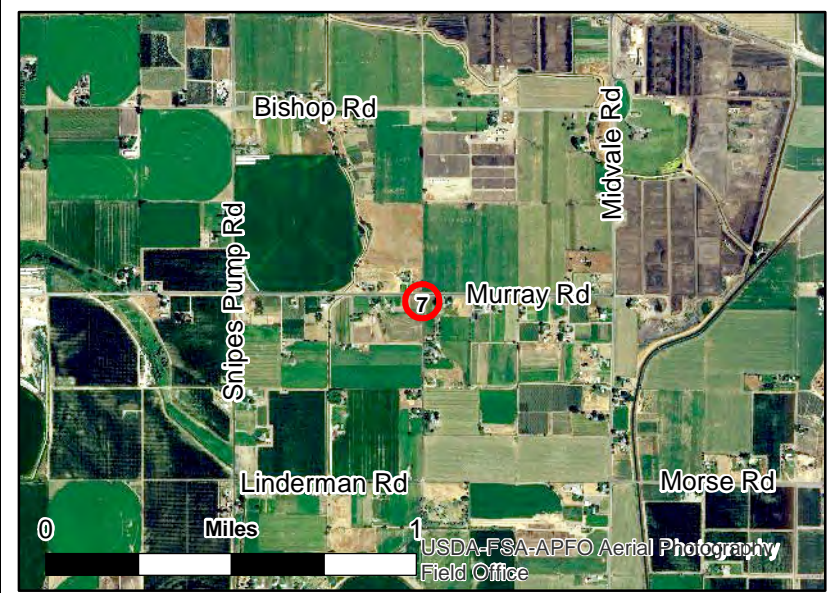


Site 7 Preliminary Drill Site and Field Located Site



-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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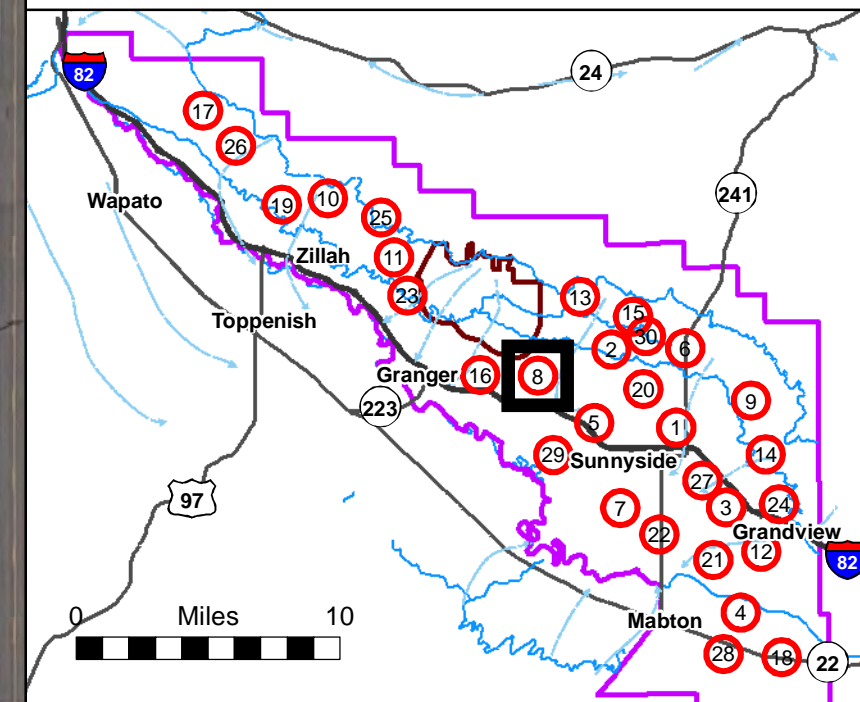
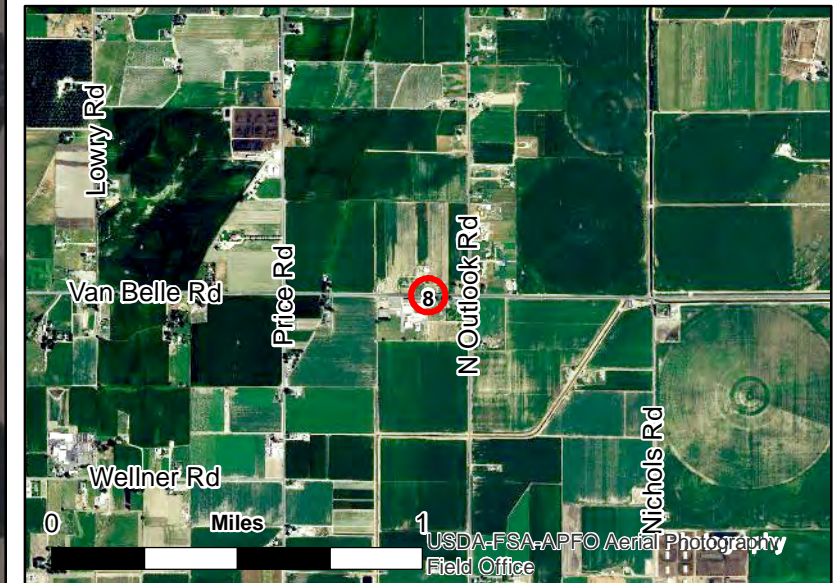


Site 8 Preliminary Drill Site and Field Located Site

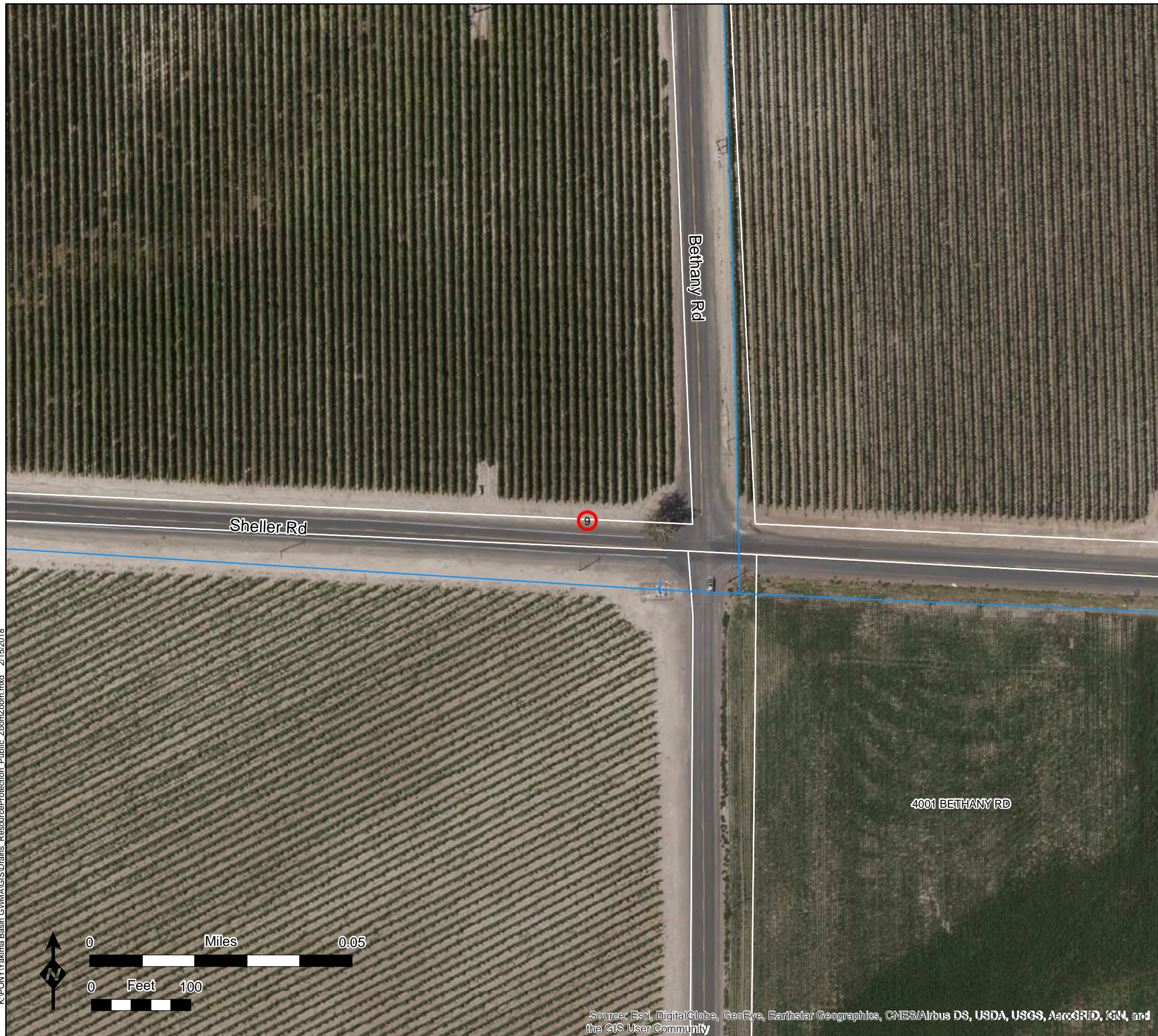


-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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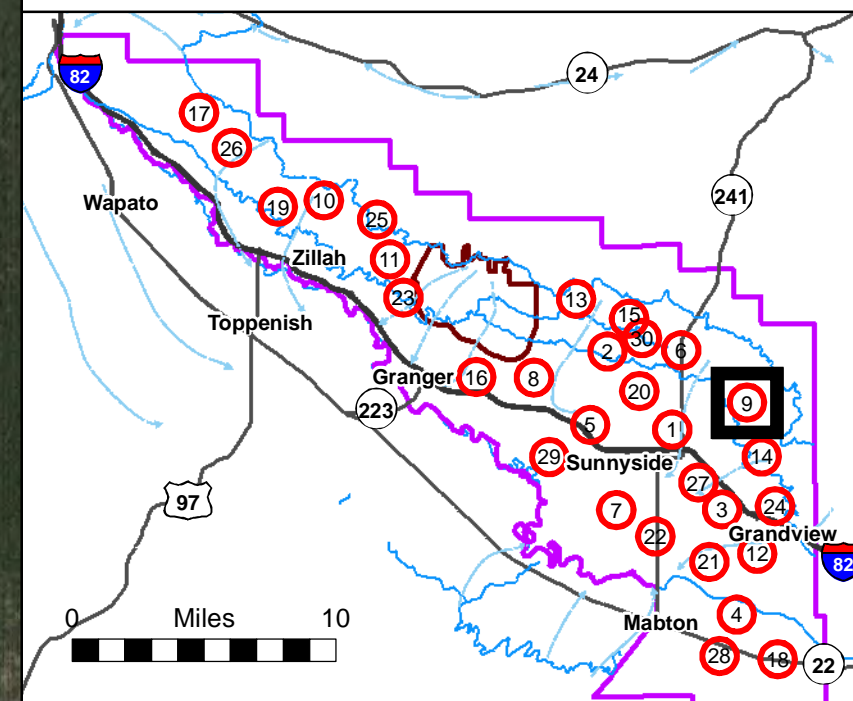
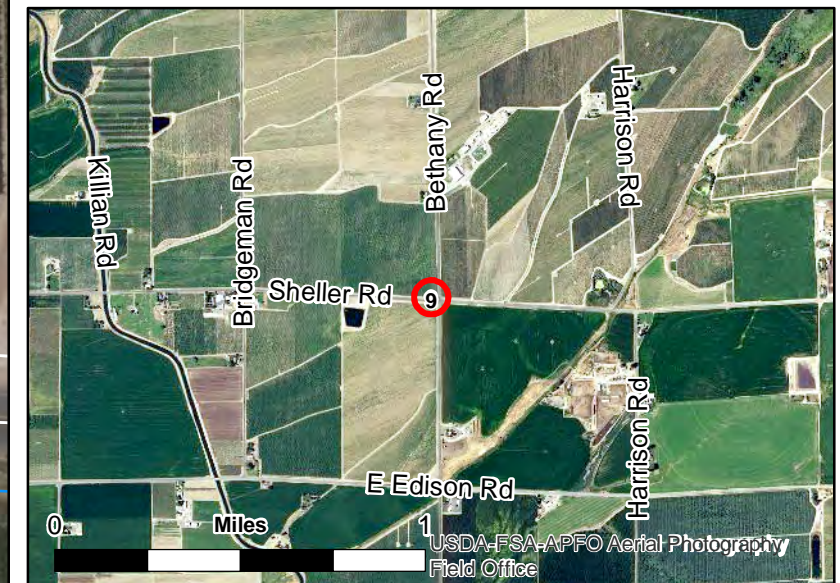
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site 9 Preliminary Drill Site and Field Located Site



 Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



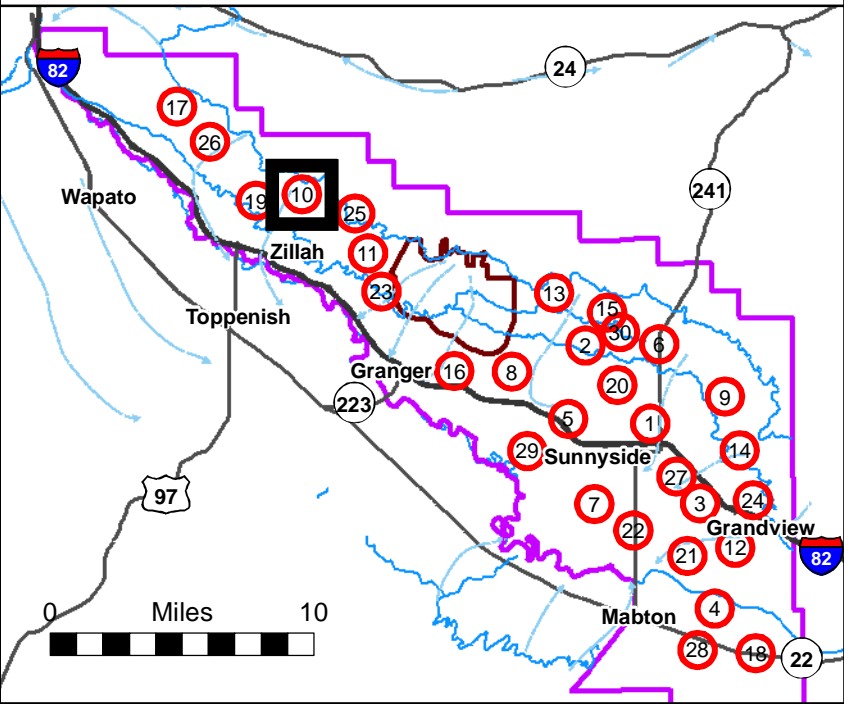
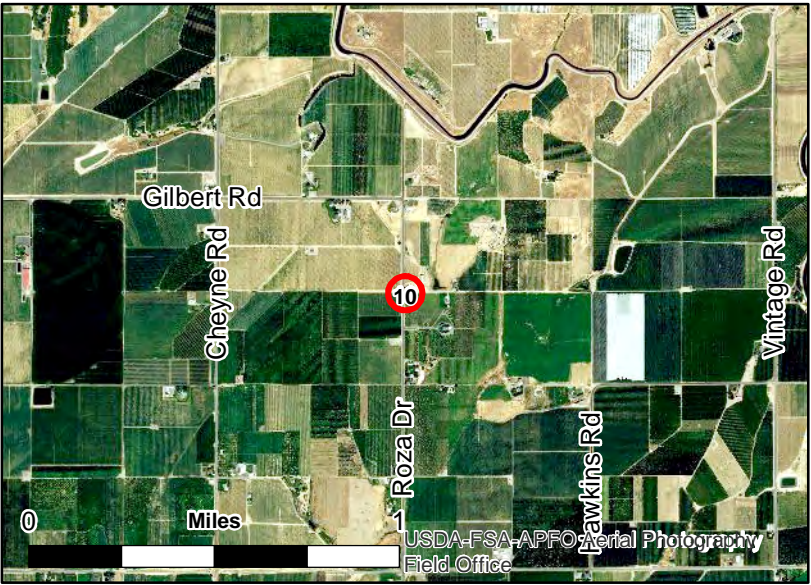


Site 10
Preliminary Drill Site
and Field Located Site



Field Located MW Site Stake

Parcel Data from Country. Does not necessarily
reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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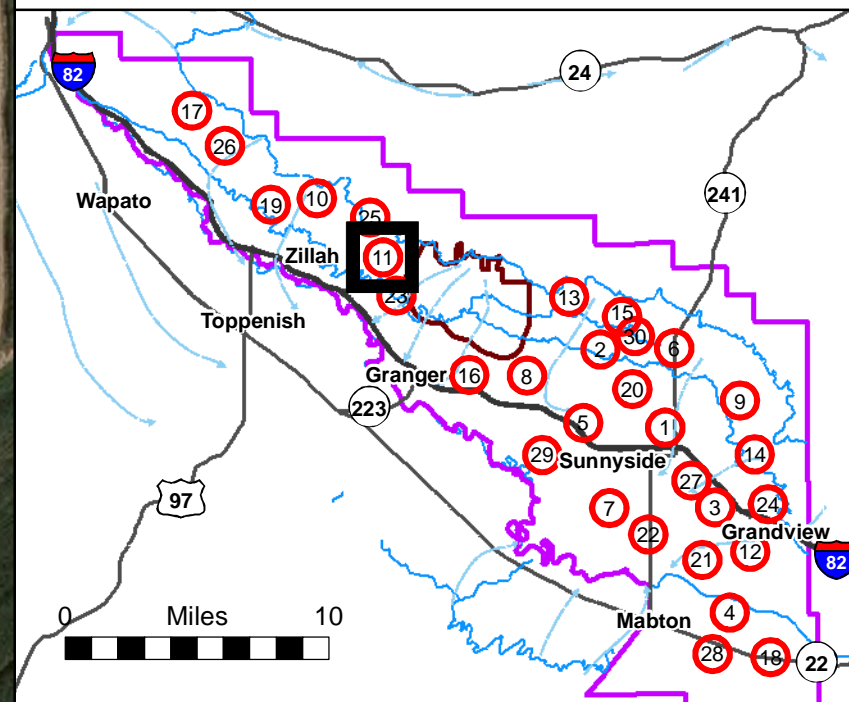
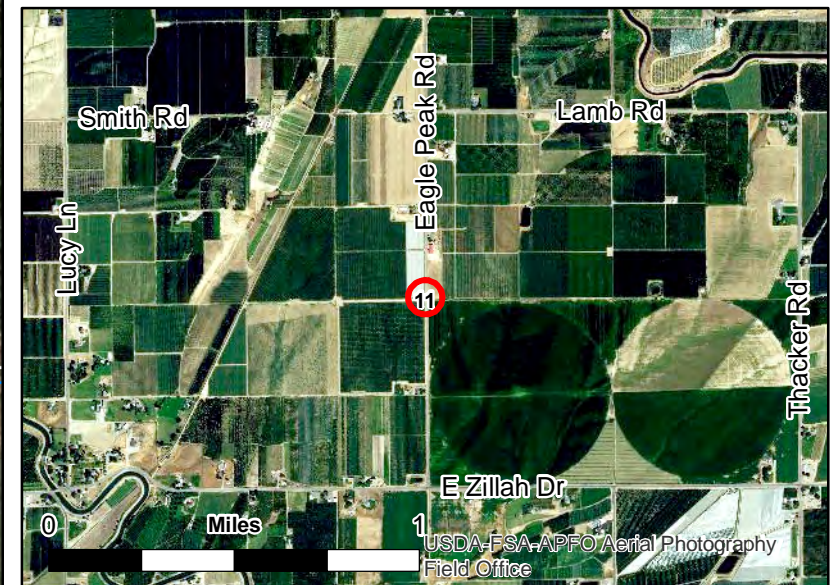
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

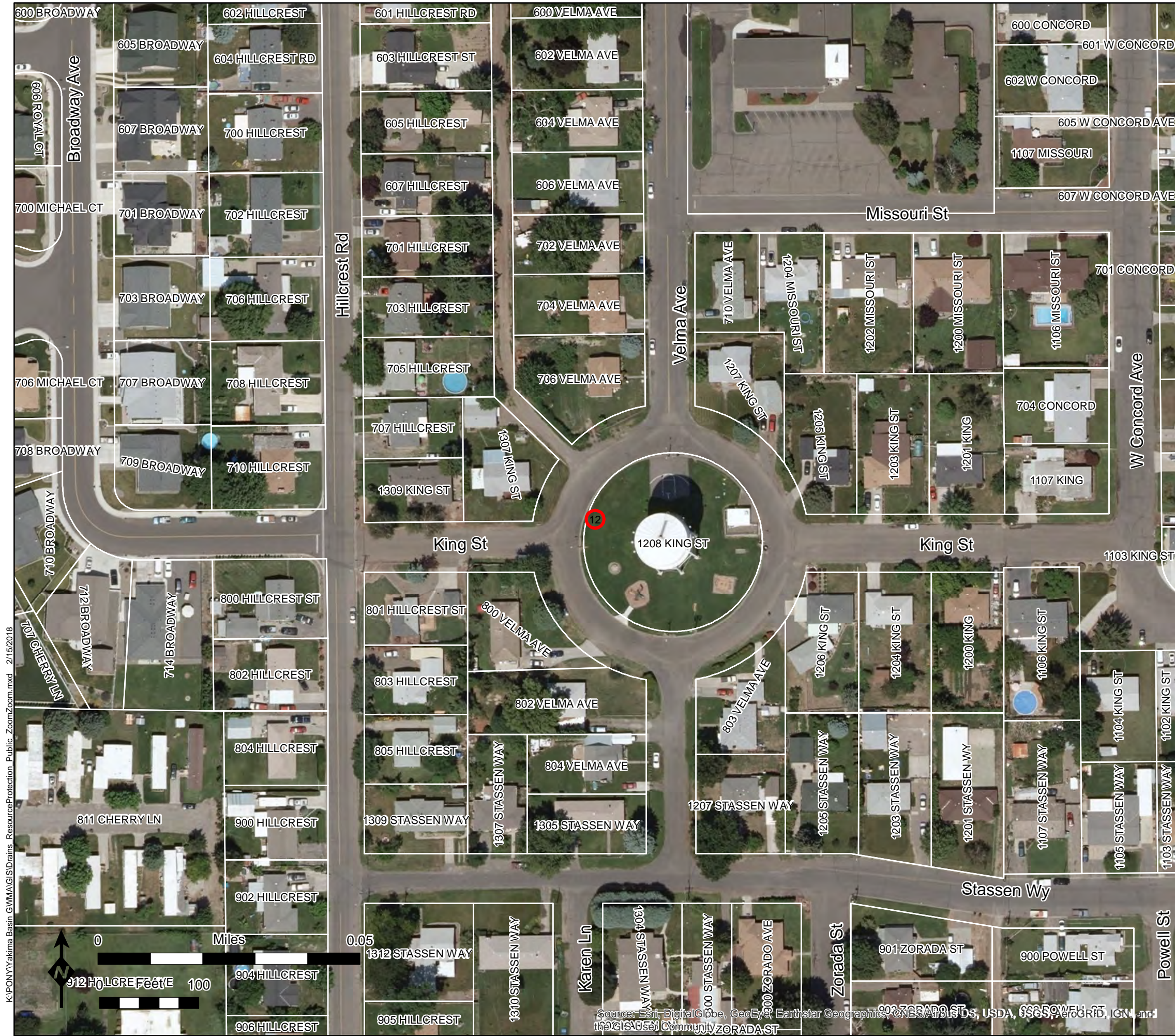
Site 11 Preliminary Drill Site and Field Located Site



 Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



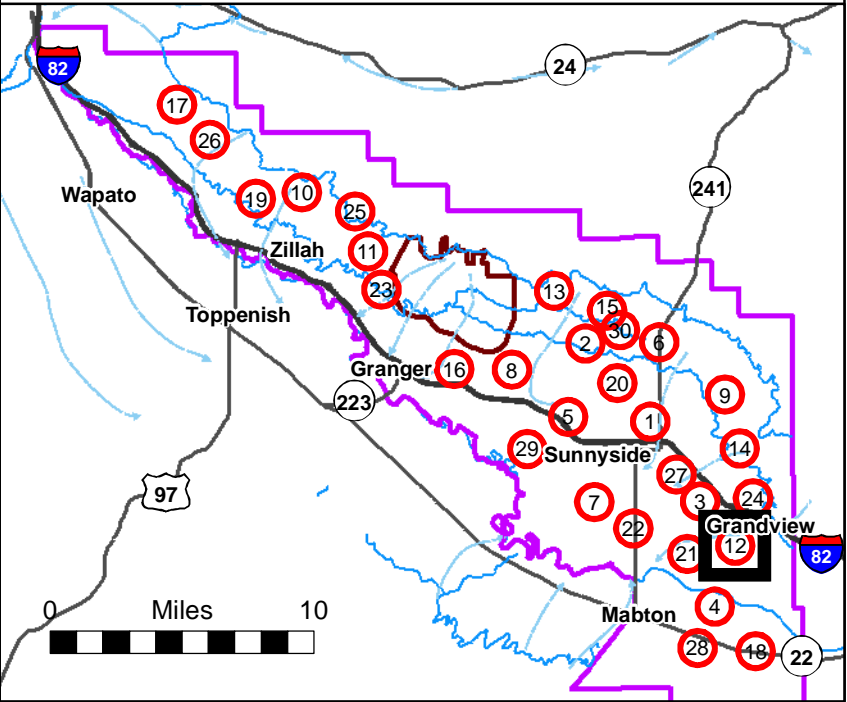
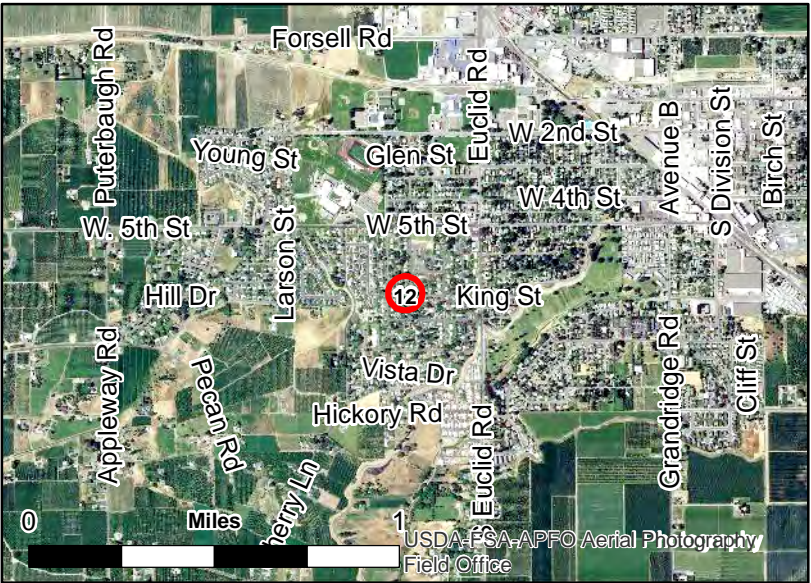


Site 12
Preliminary Drill Site
and Field Located Site

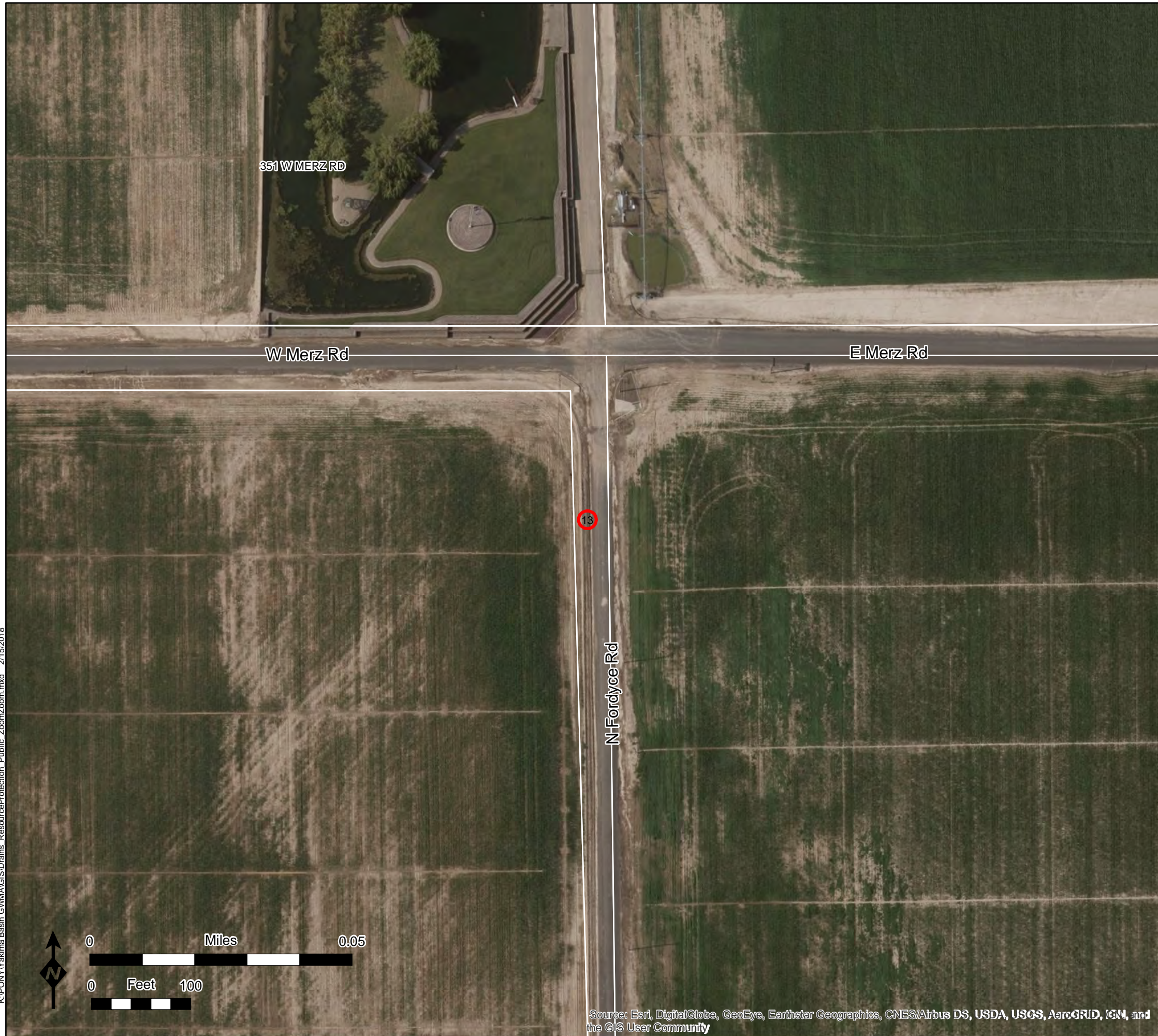


Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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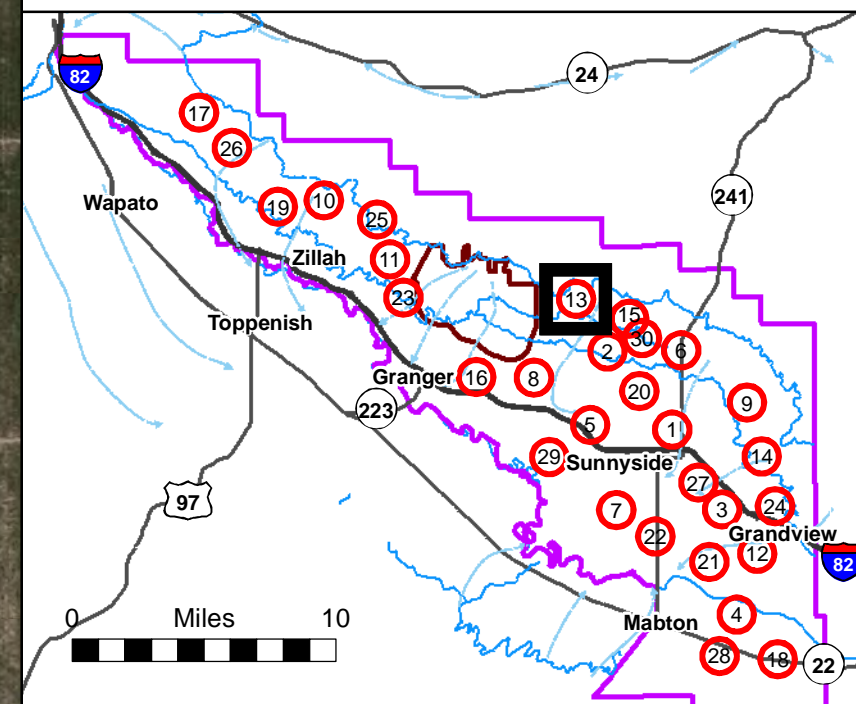
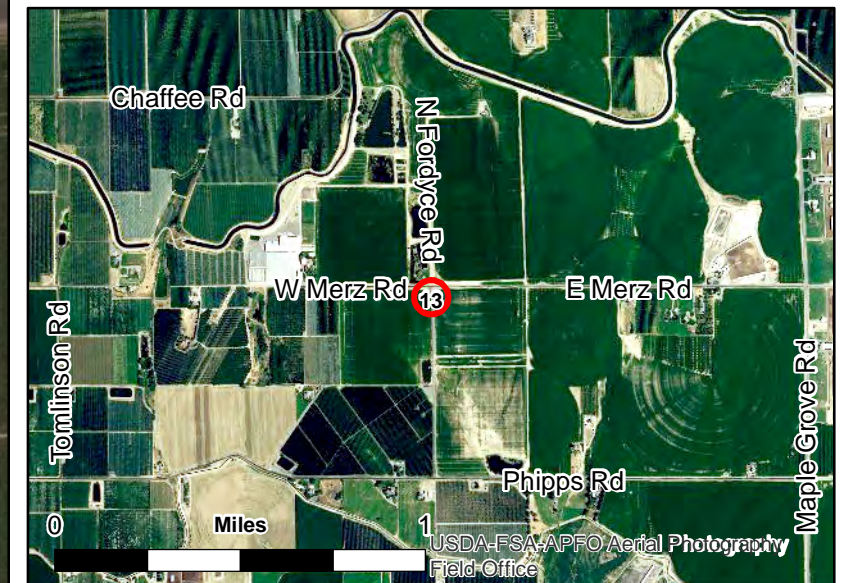


Site 13 Preliminary Drill Site and Field Located Site



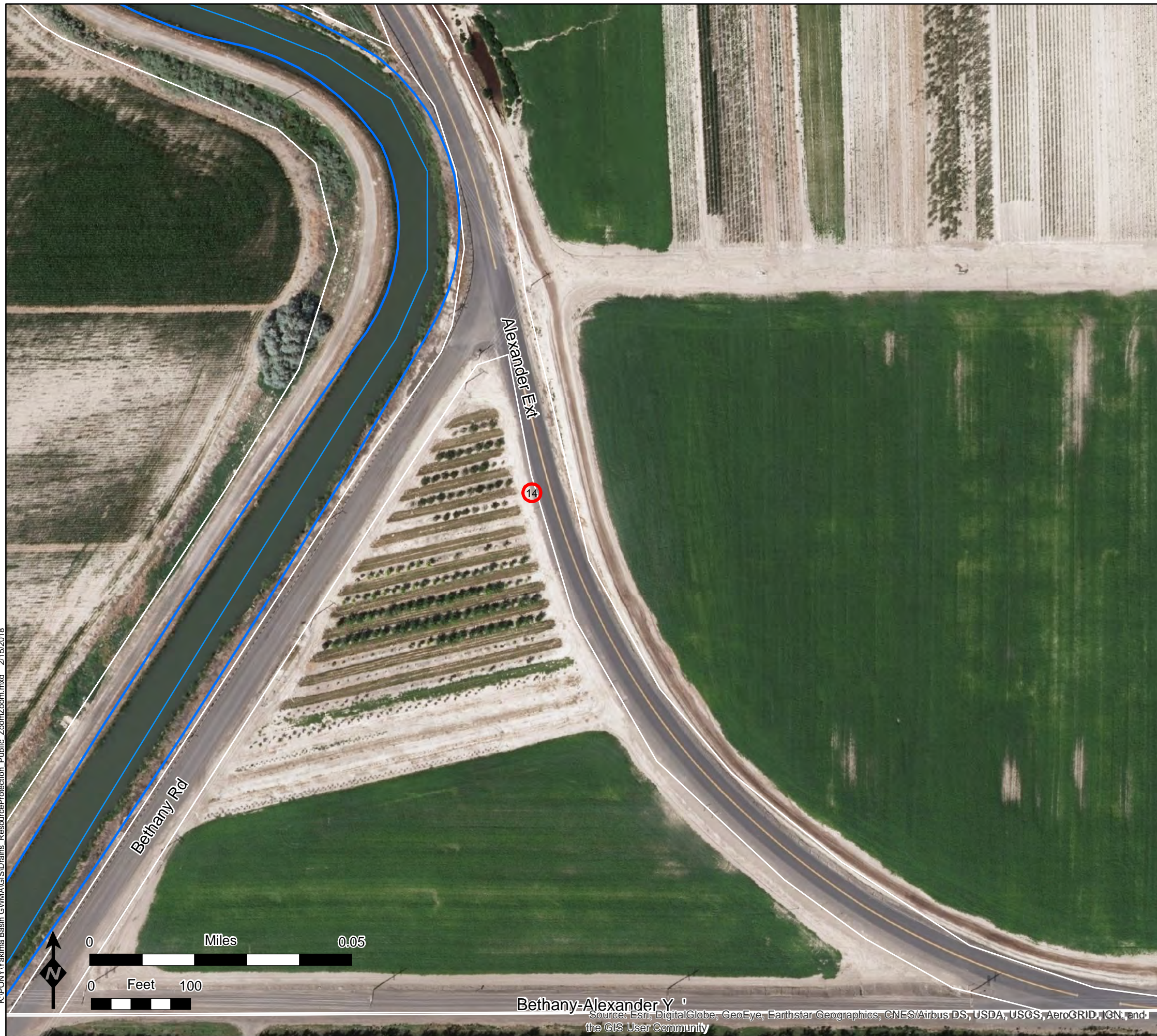
 Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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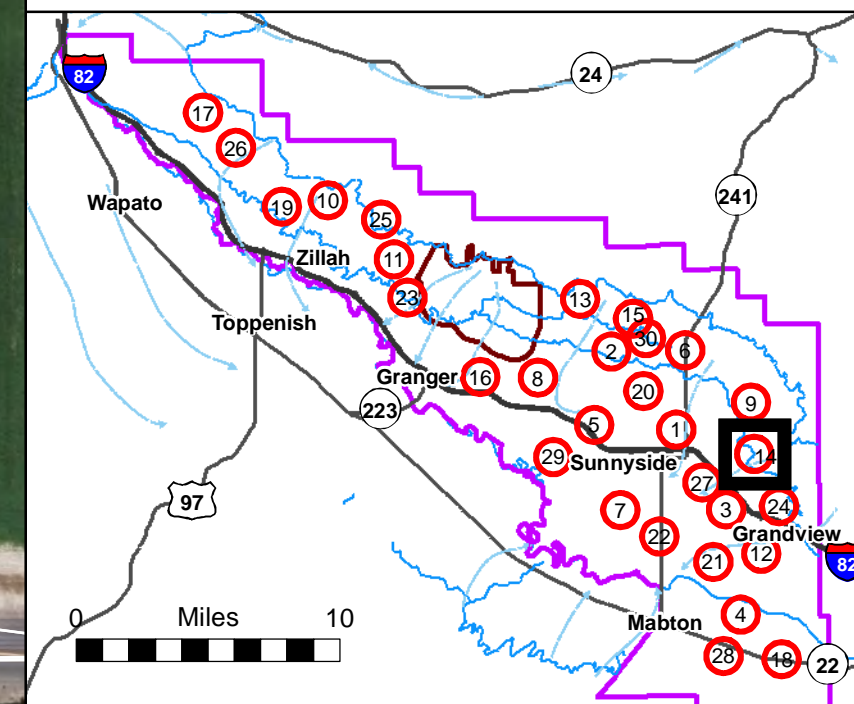
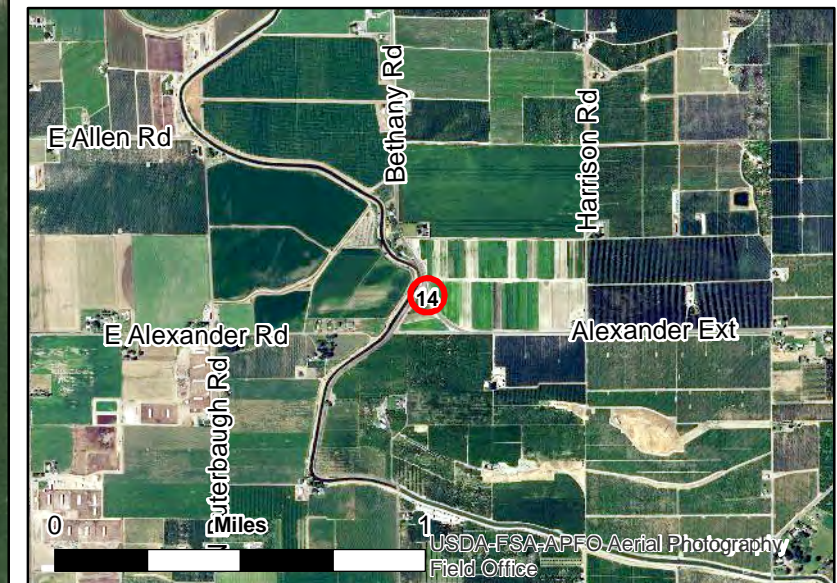


Site 14 Preliminary Drill Site and Field Located Site

PGG

○ Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Bethany-Alexander Y.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

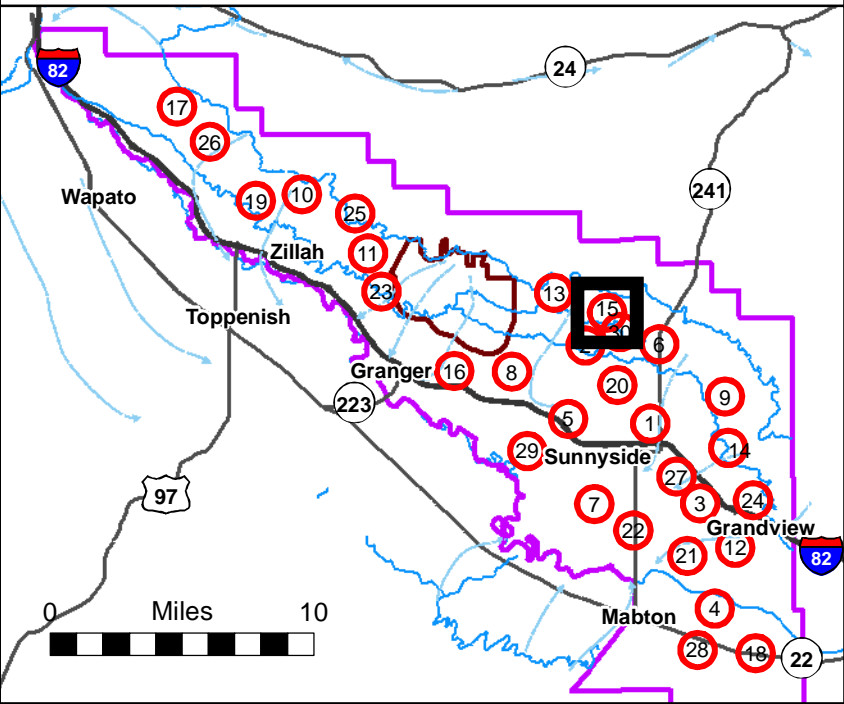


Site 15
Preliminary Drill Site
and Field Located Site



Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.





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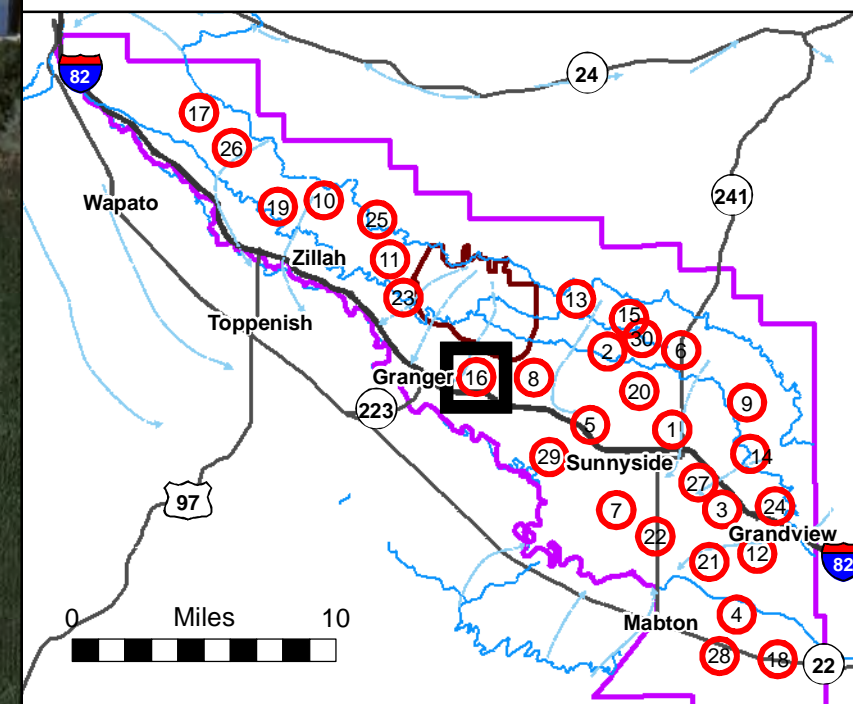
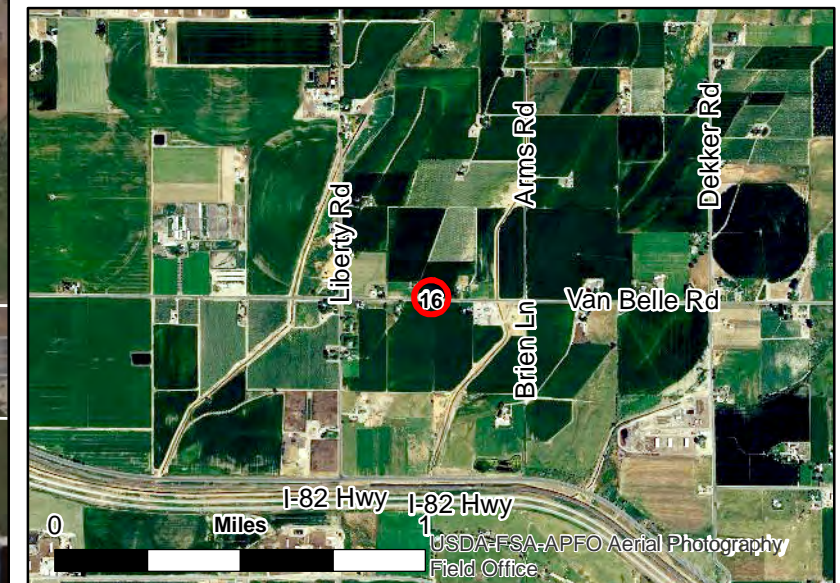


Site 16 Preliminary Drill Site and Field Located Site



-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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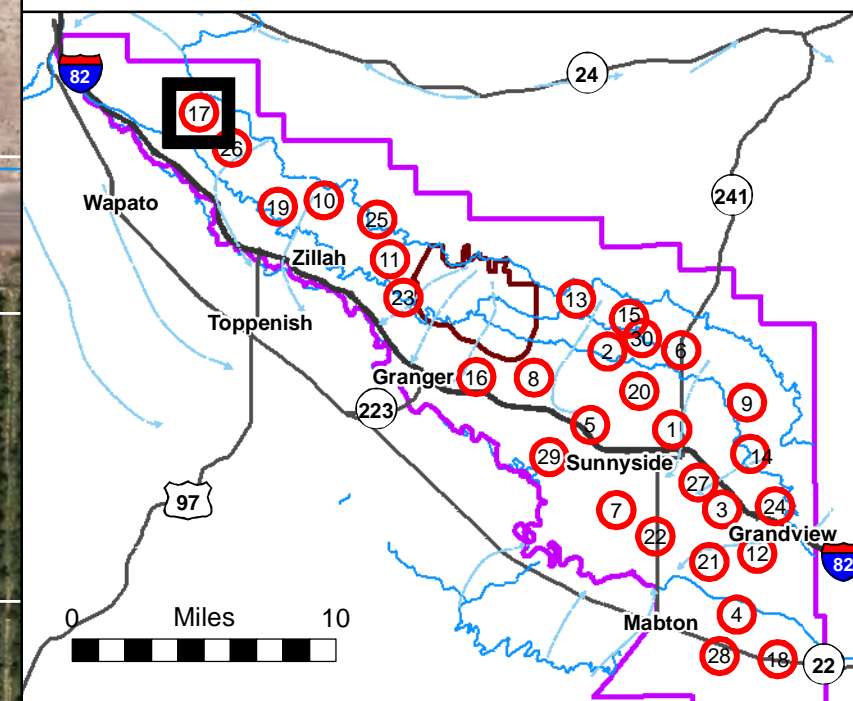
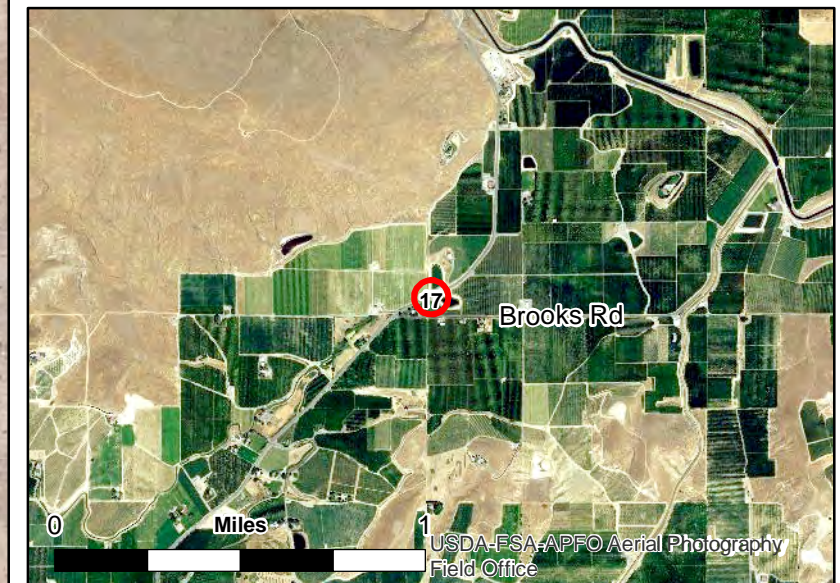


Site 17 Preliminary Drill Site and Field Located Site

PGG

 Field Located MW Site Stake

Parcel Data from Country. Does not necessarily
reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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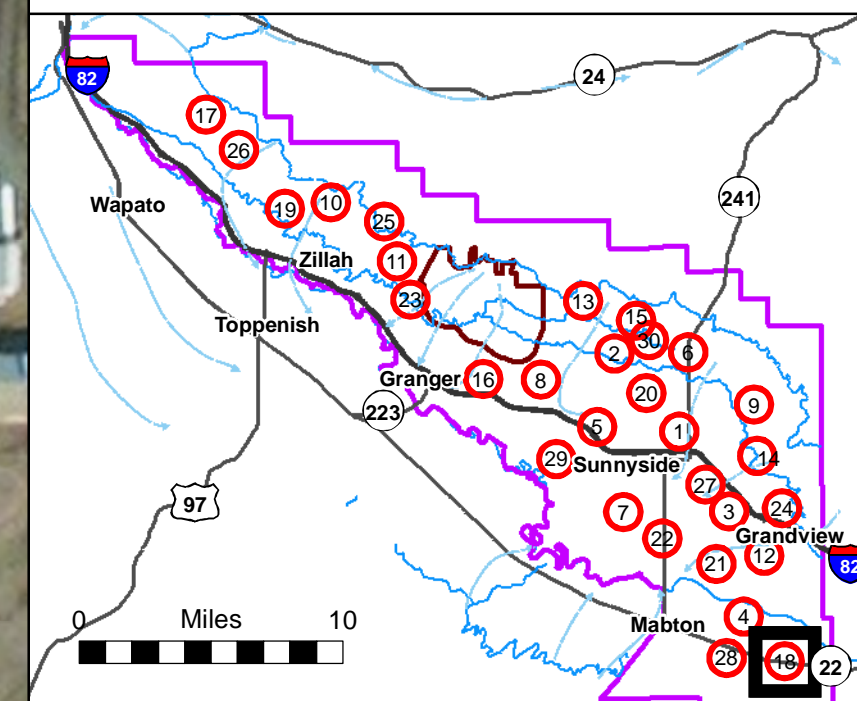


Site 18 Preliminary Drill Site and Field Located Site

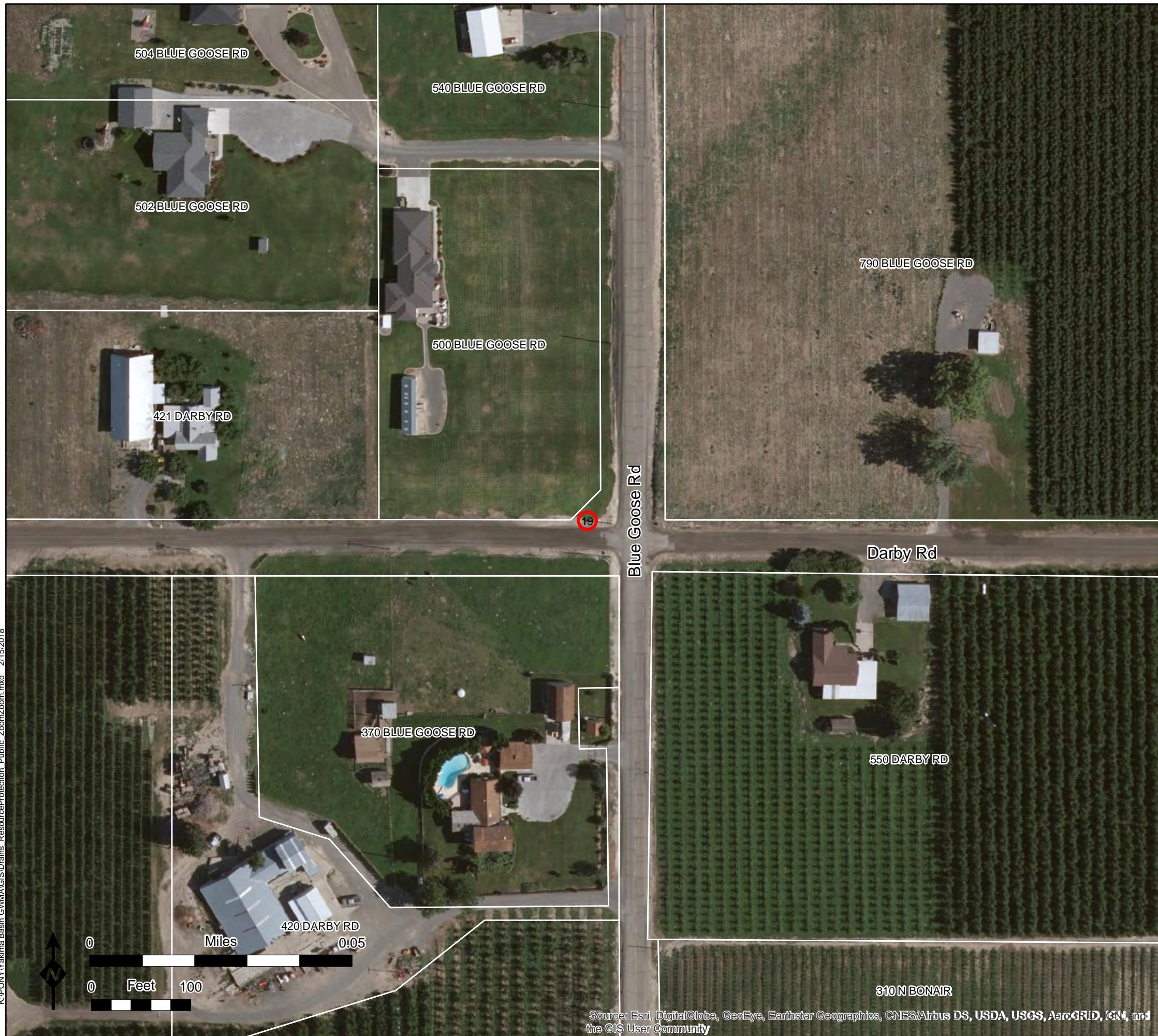


○ Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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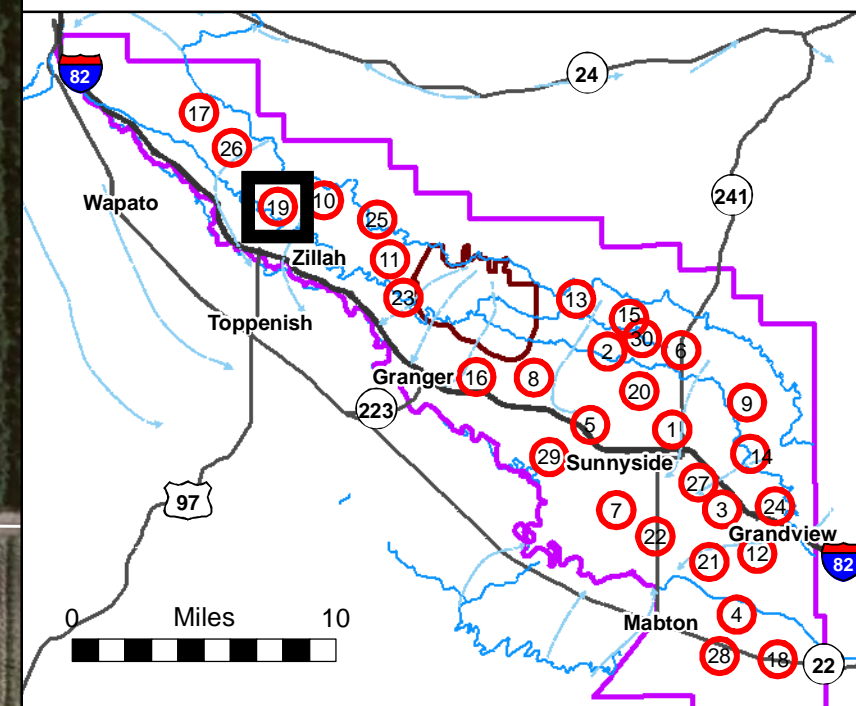
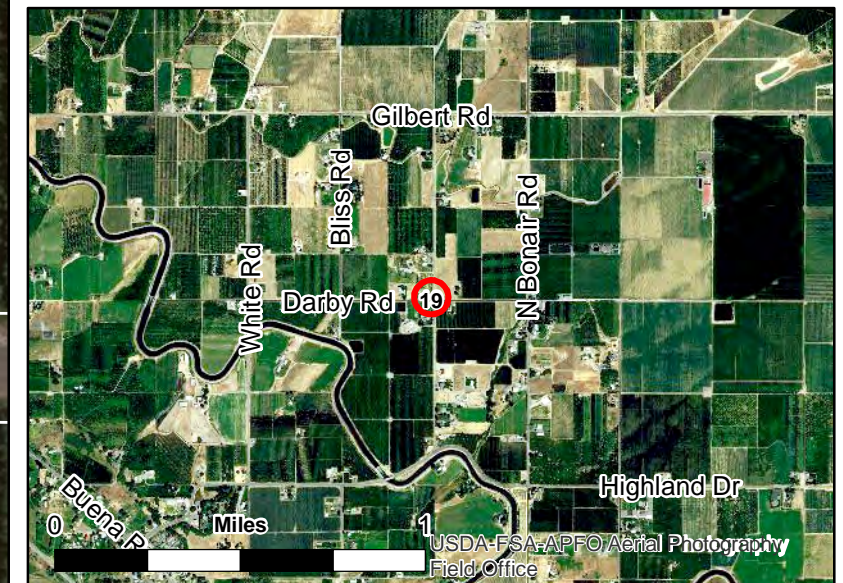
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

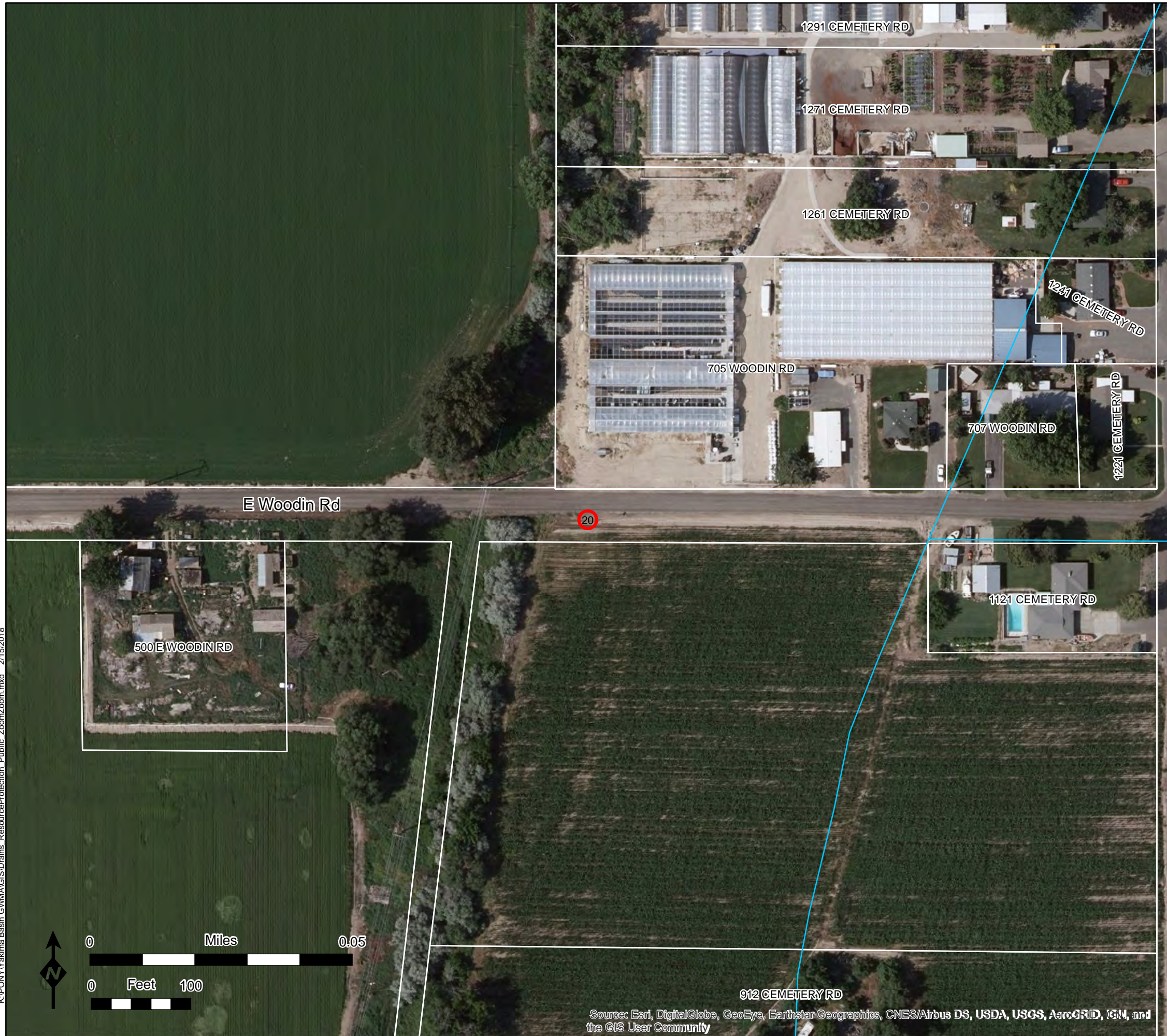
Site 19 Preliminary Drill Site and Field Located Site

PGG

 Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



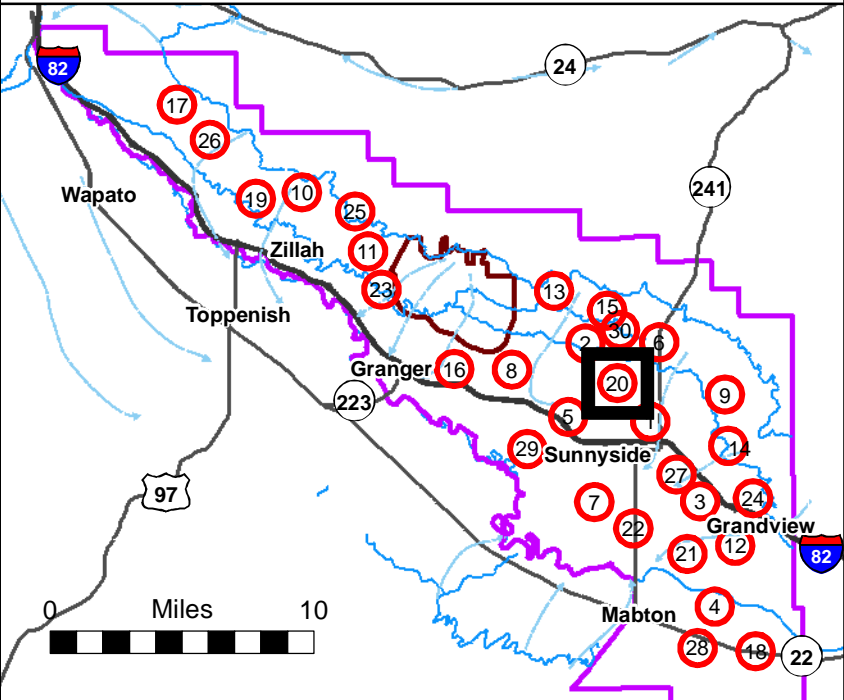
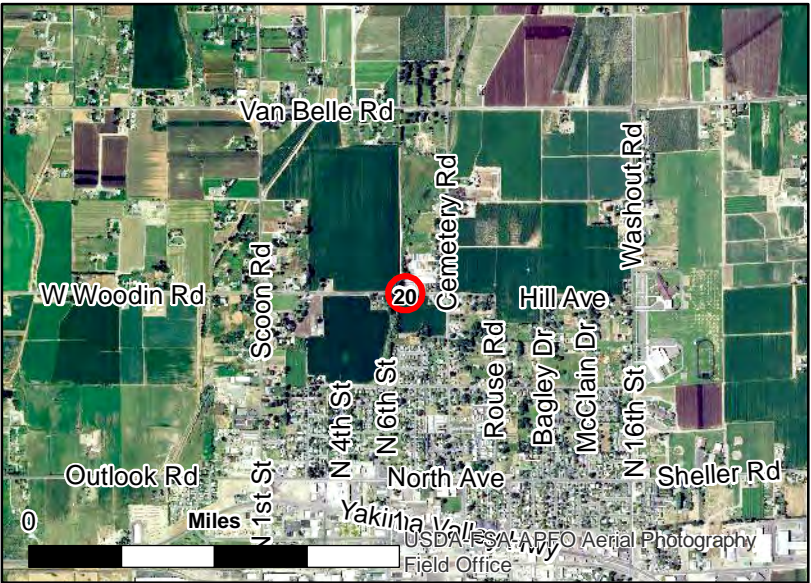


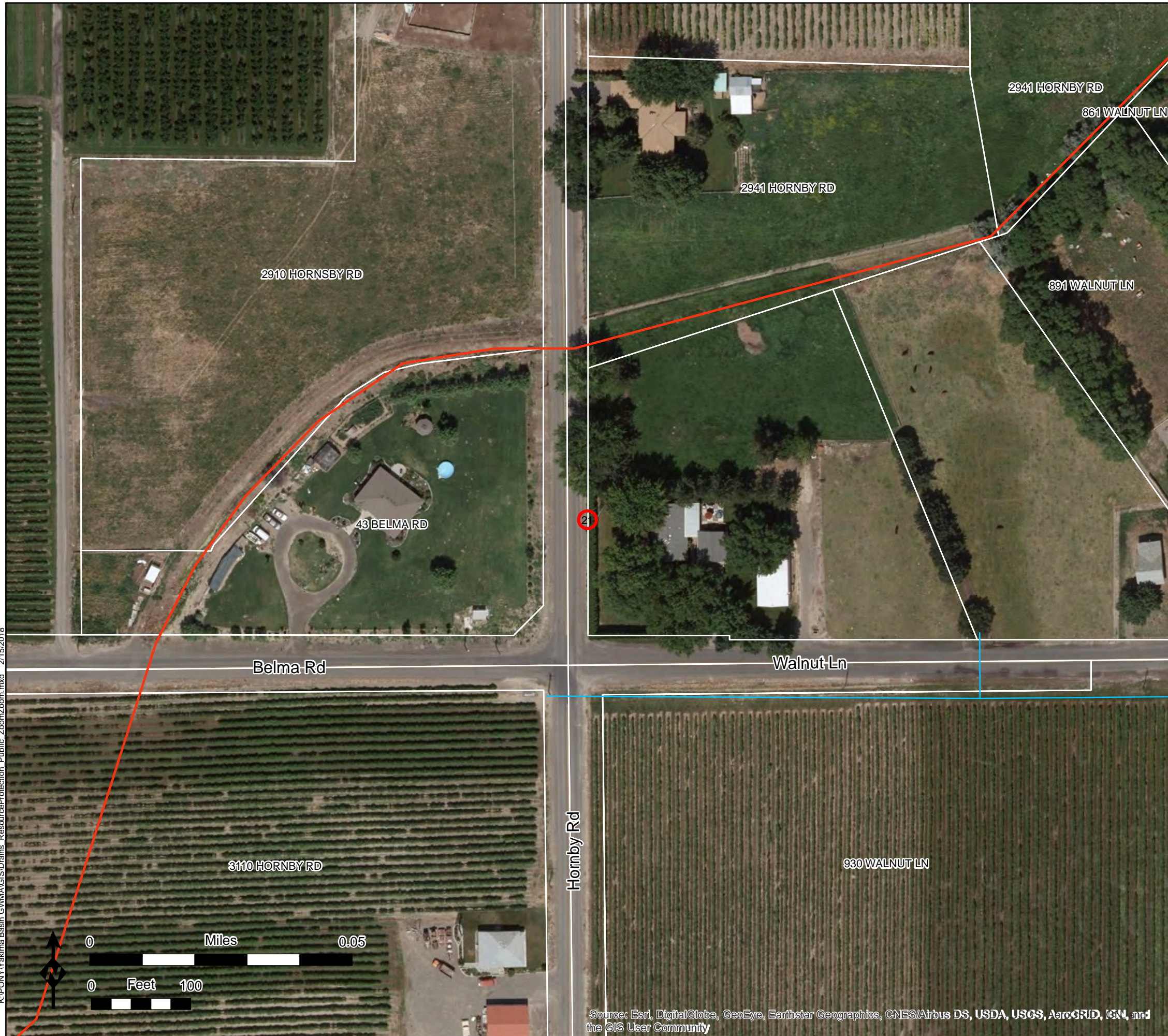
Site 20 Preliminary Drill Site and Field Located Site



- Field Located MW Site Stake
- Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.








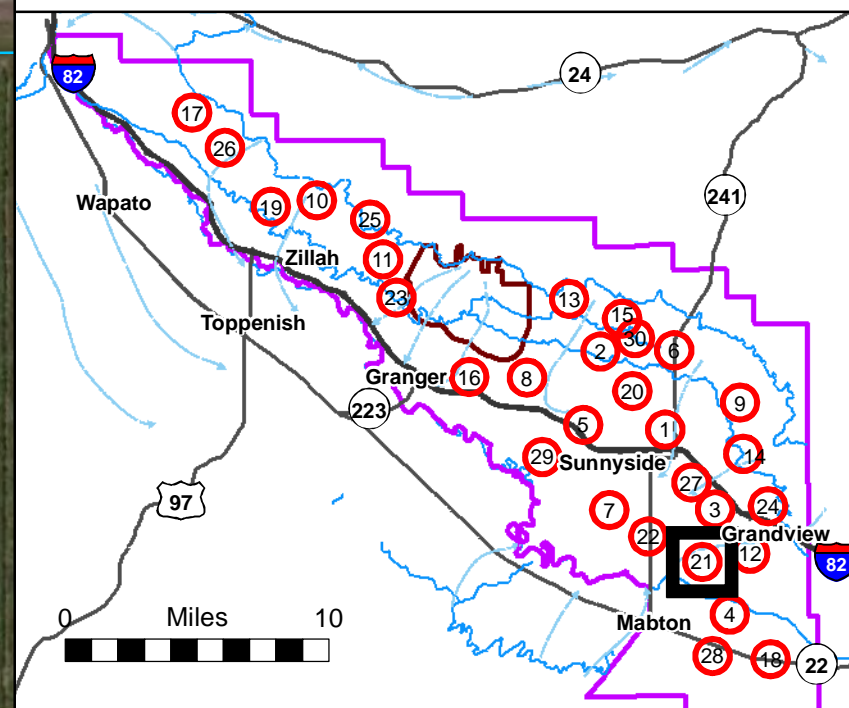
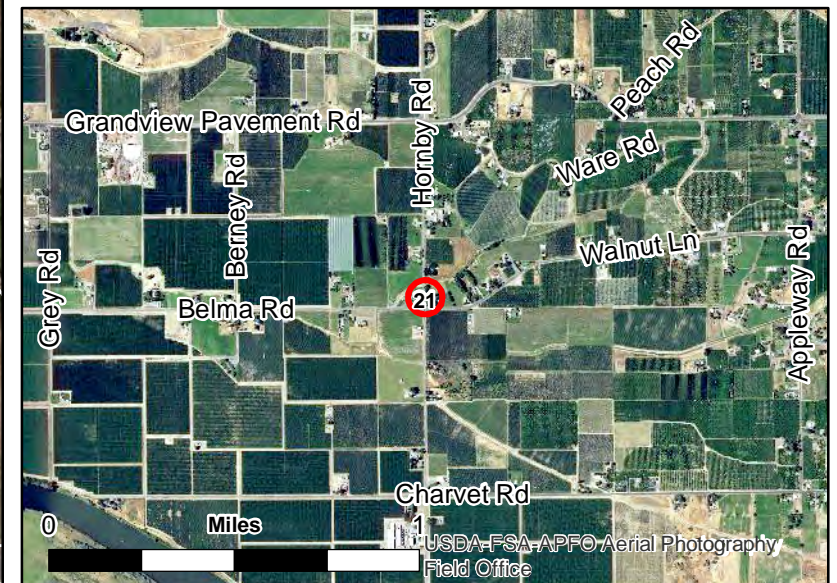
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

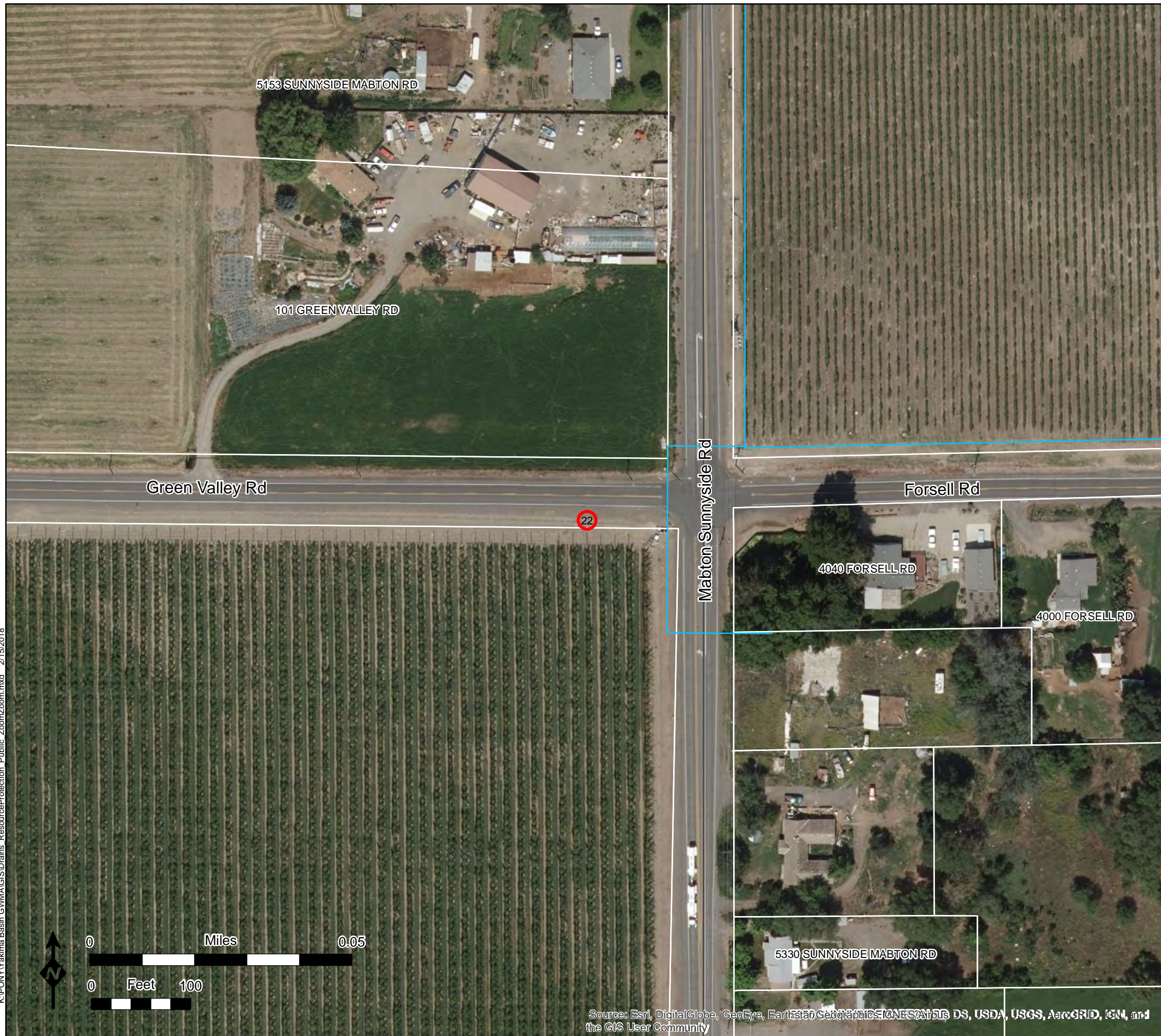
Site 21 Preliminary Drill Site and Field Located Site



-  Field Located MW Site Stake
-  Canals & Lateral Lines
-  Drain Lines (DR_Lines)

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.







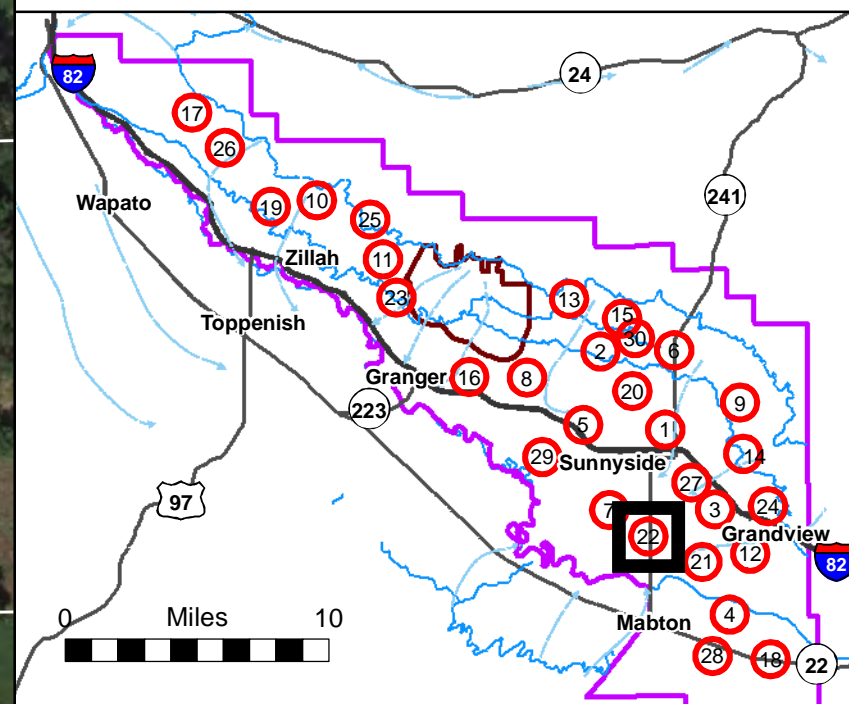
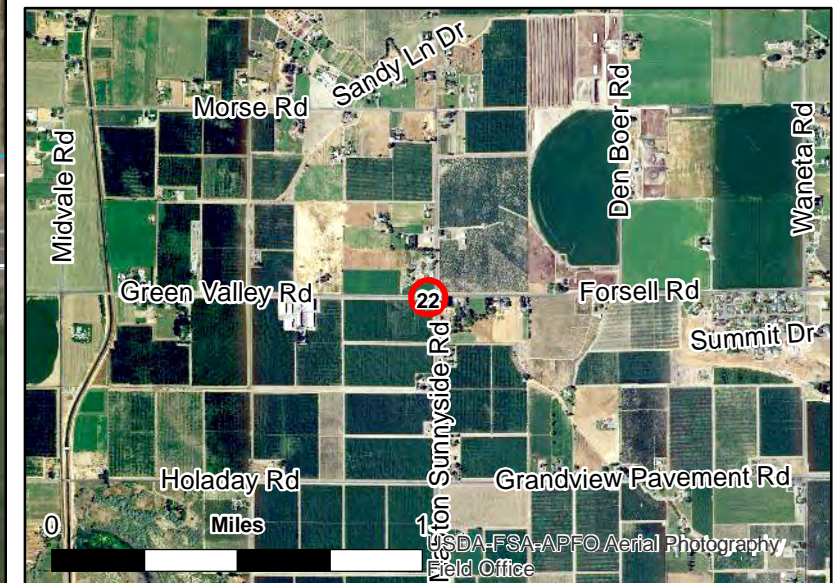
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site 22 Preliminary Drill Site and Field Located Site



-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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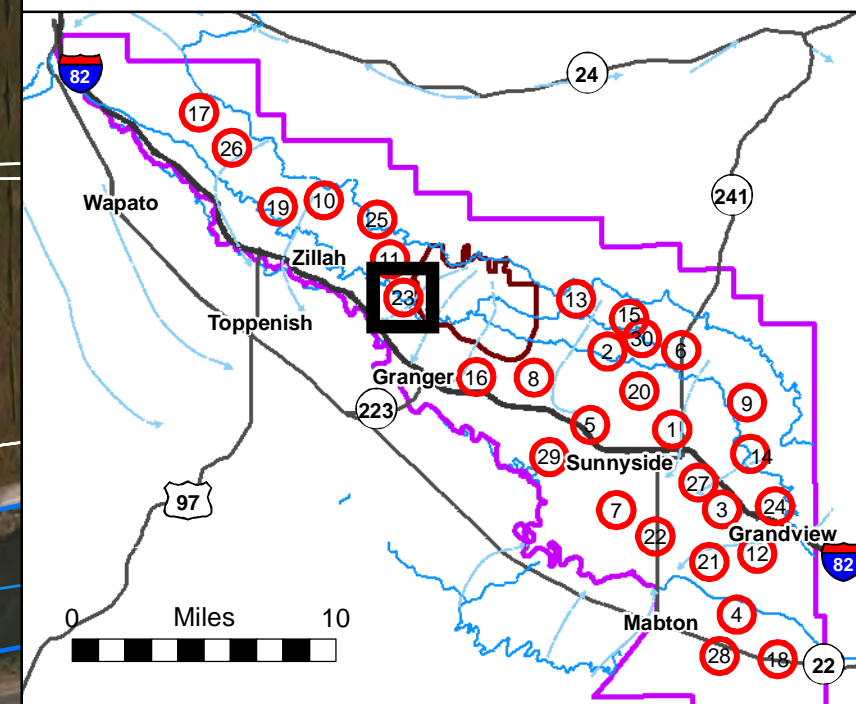
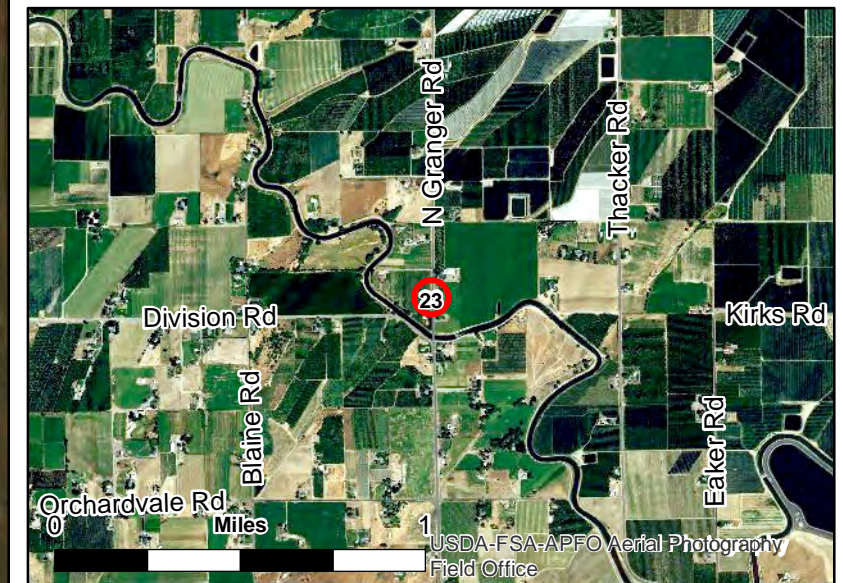


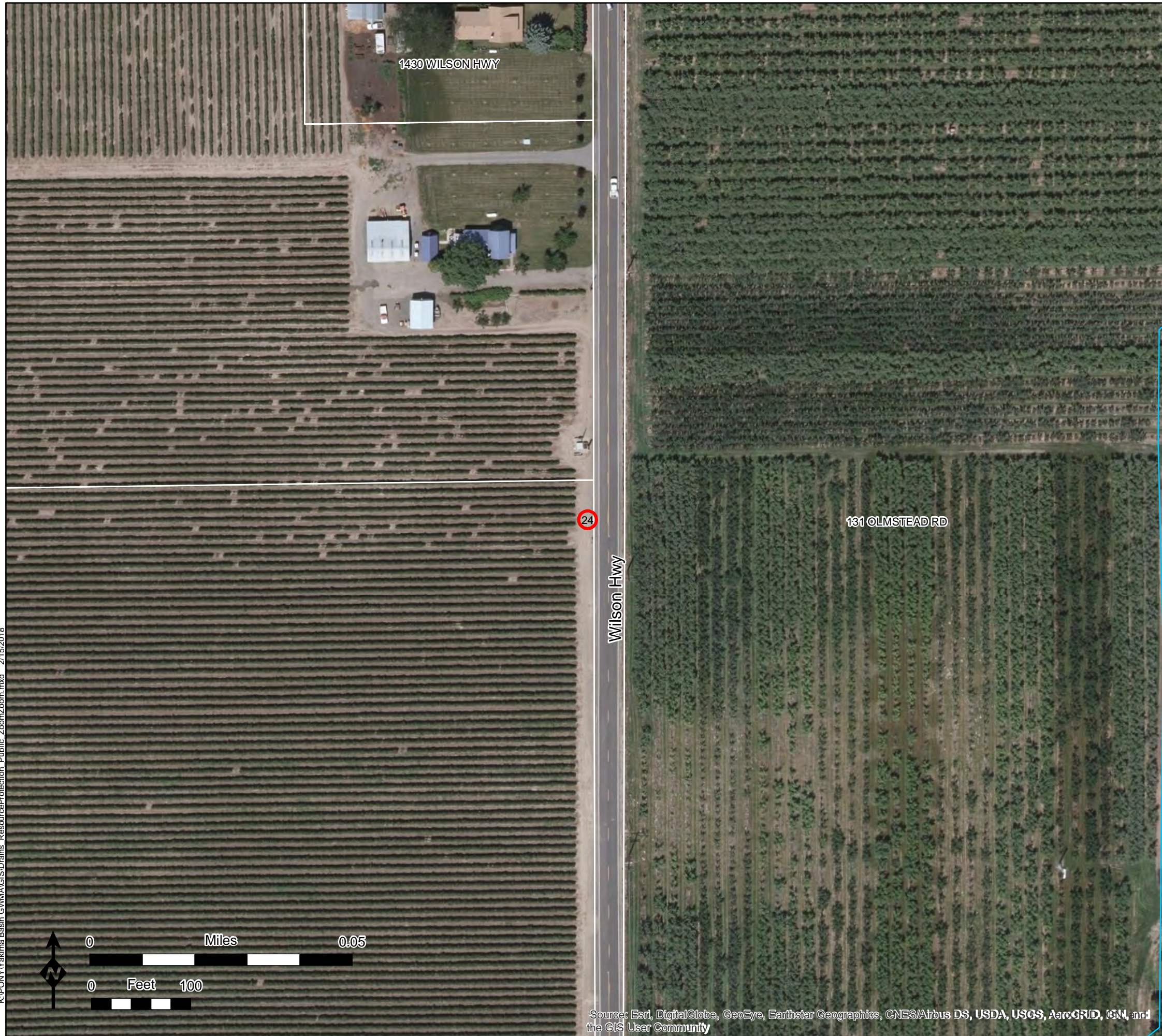
Site 23 Preliminary Drill Site and Field Located Site



 Field Located MW Site Stake



Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



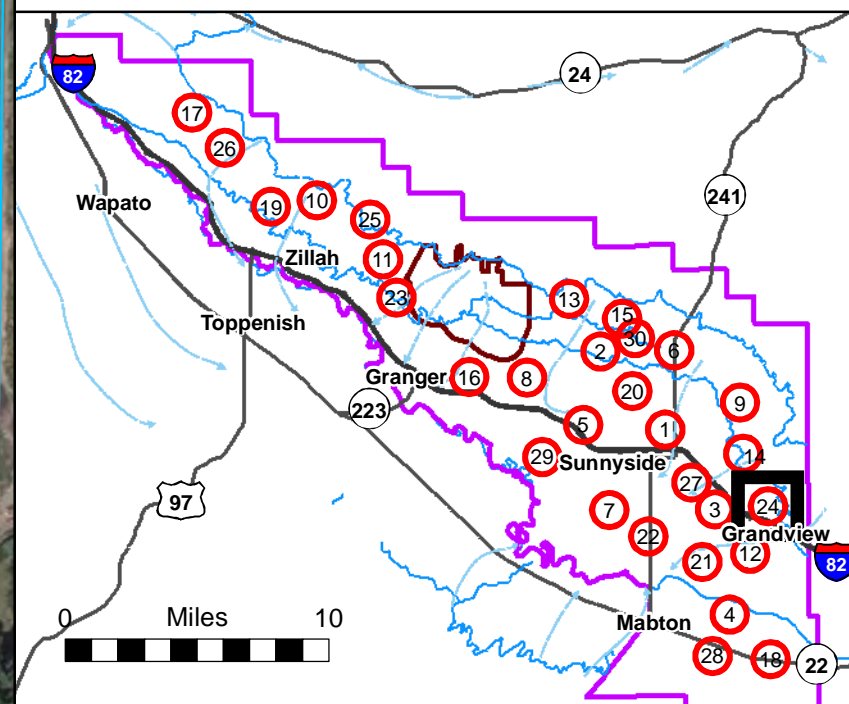
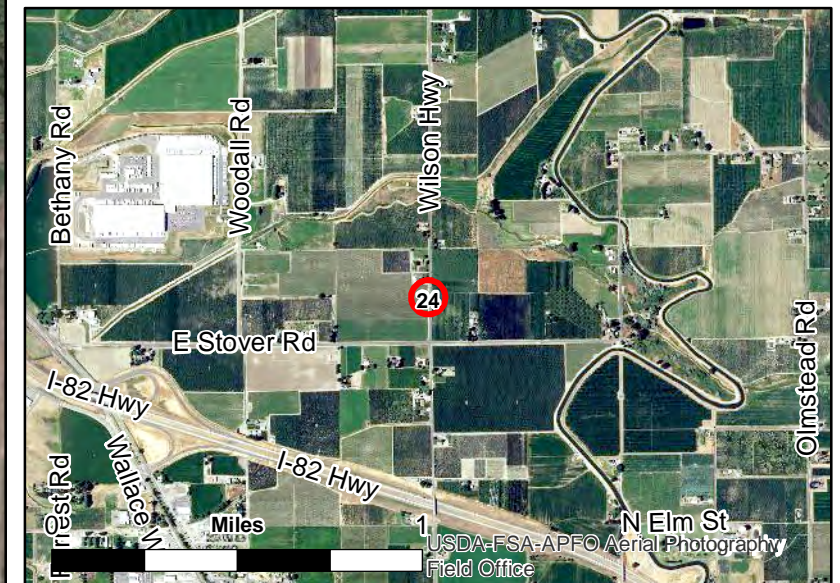


Site 24 Preliminary Drill Site and Field Located Site



-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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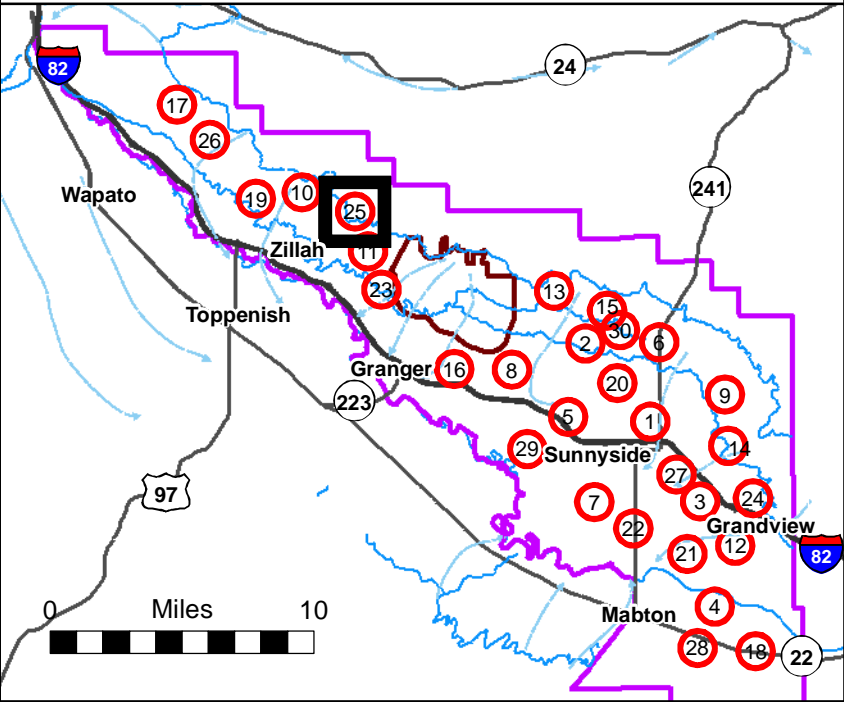
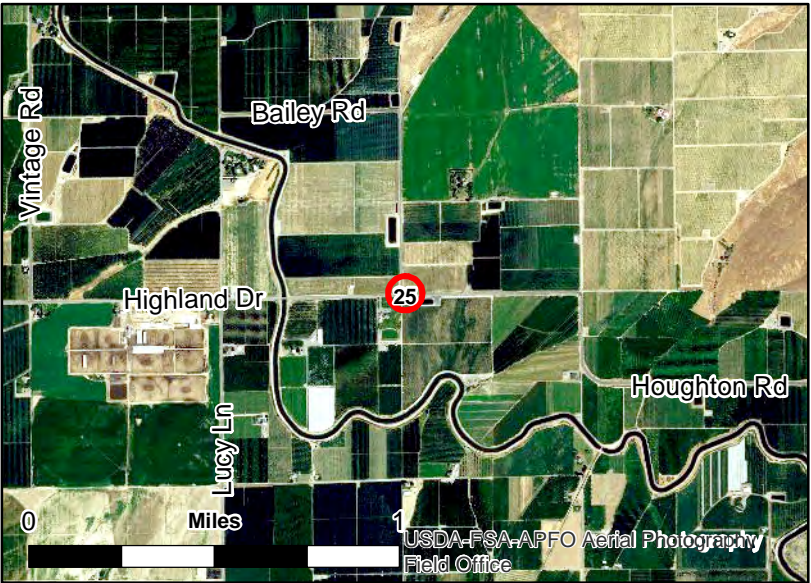


Site 25 Preliminary Drill Site and Field Located Site



Field Located MW Site Stake

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



11 RIGGINS RD

361 RIGGINS RD

359 RIGGINS RD

Riggins Rd

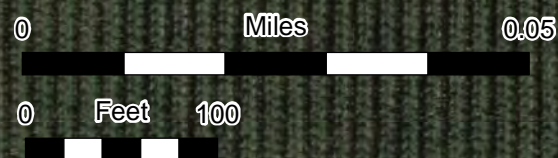
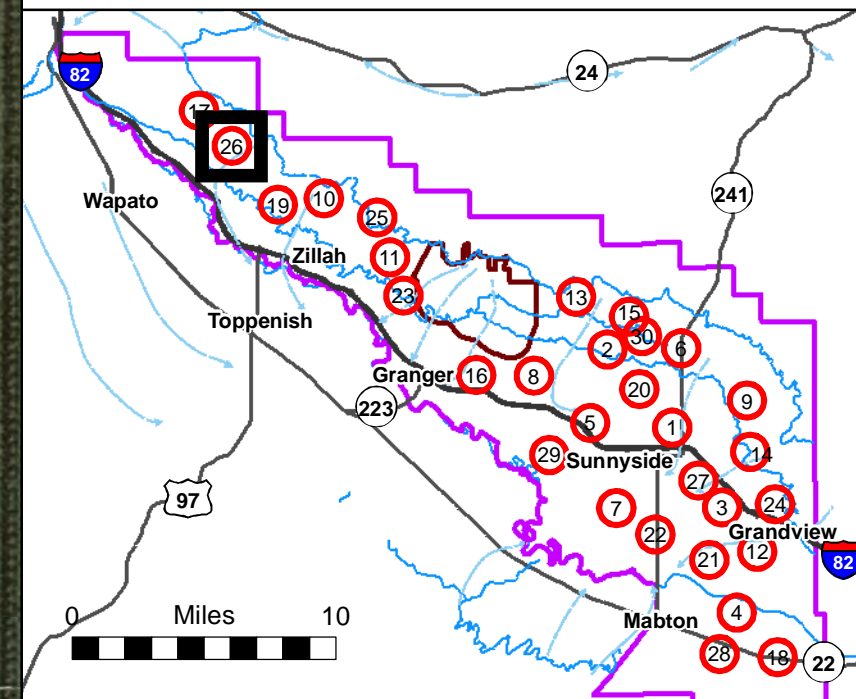
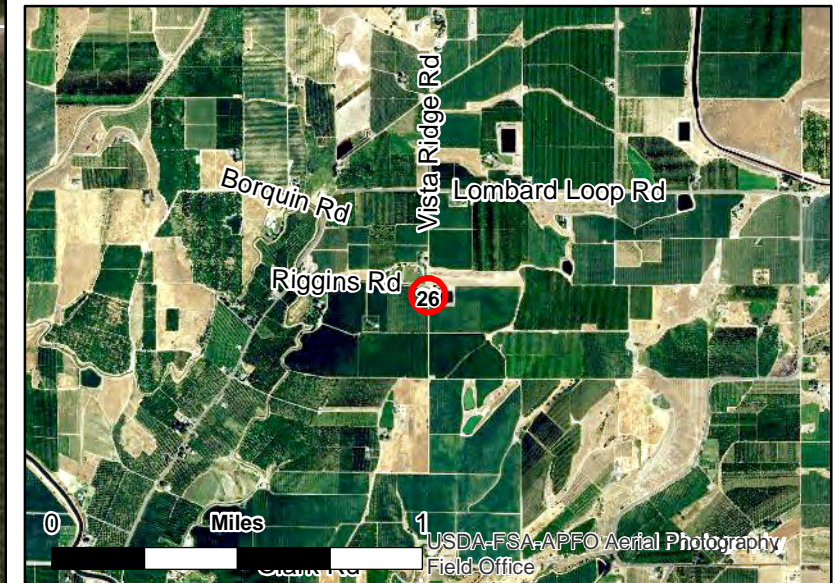
26

Site 26 Preliminary Drill Site and Field Located Site

PGG

○ Field Located MW Site Stake

Parcel Data from Country. Does not necessarily
reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



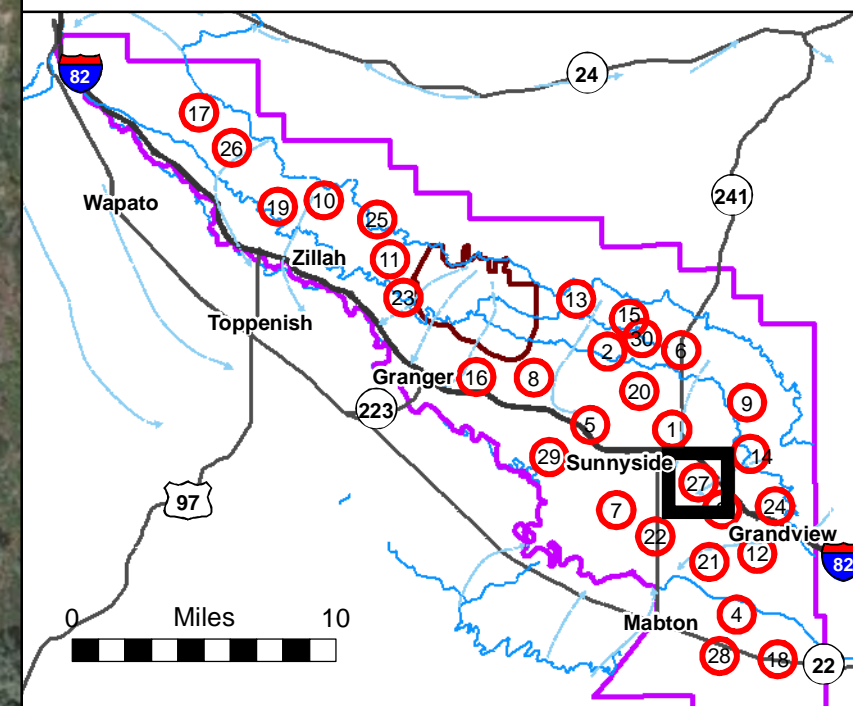
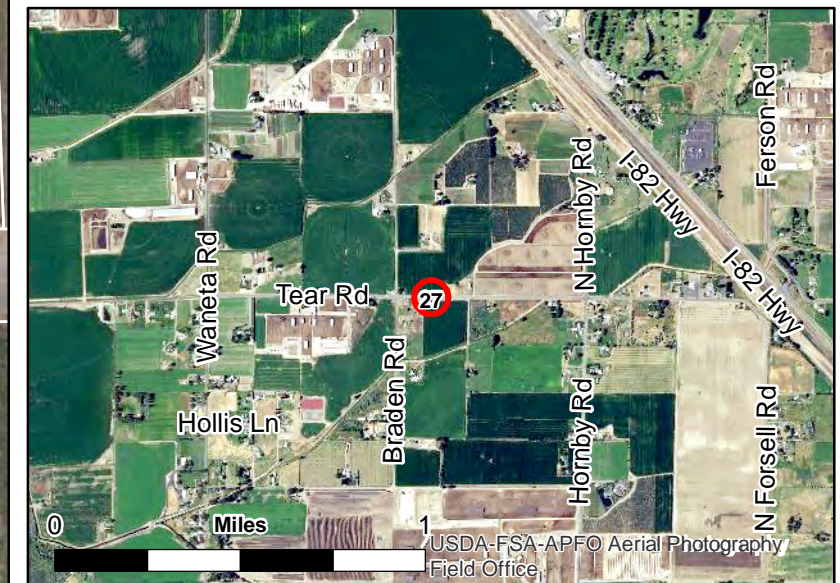
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site 27 Preliminary Drill Site and Field Located Site



-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



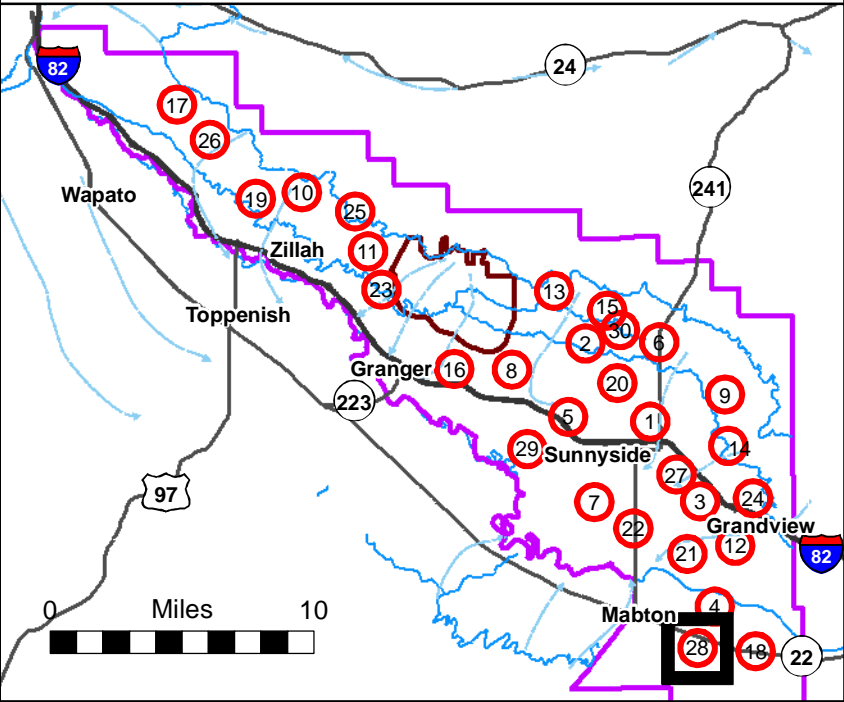
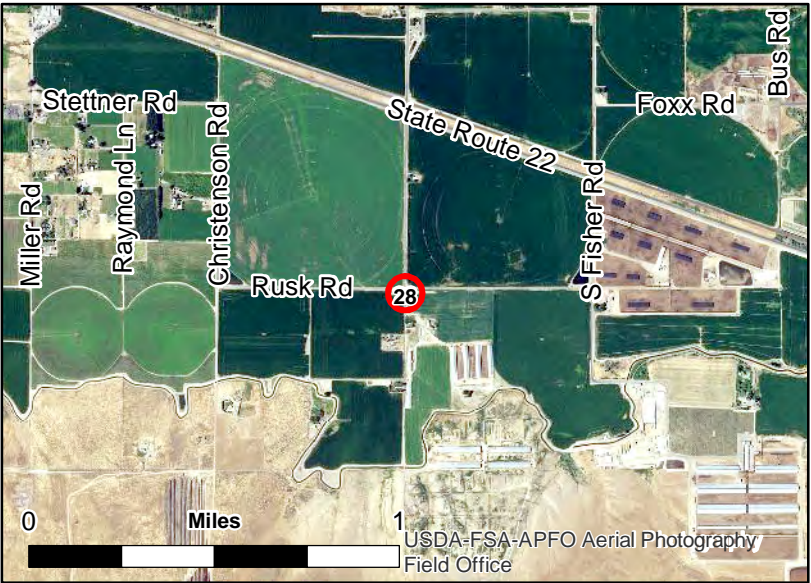


Site 28
Preliminary Drill Site
and Field Located Site

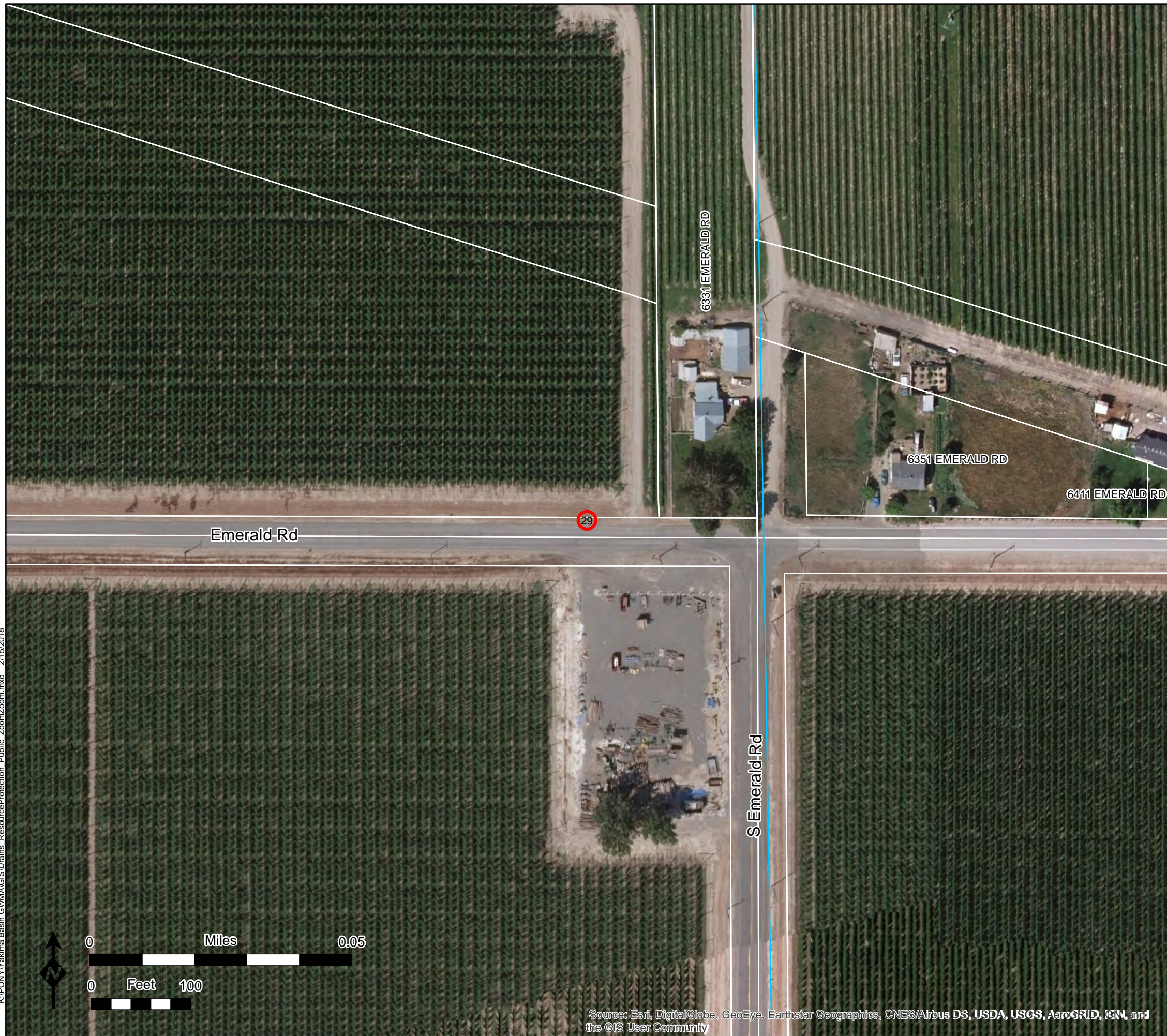


- Field Located MW Site Stake
- Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



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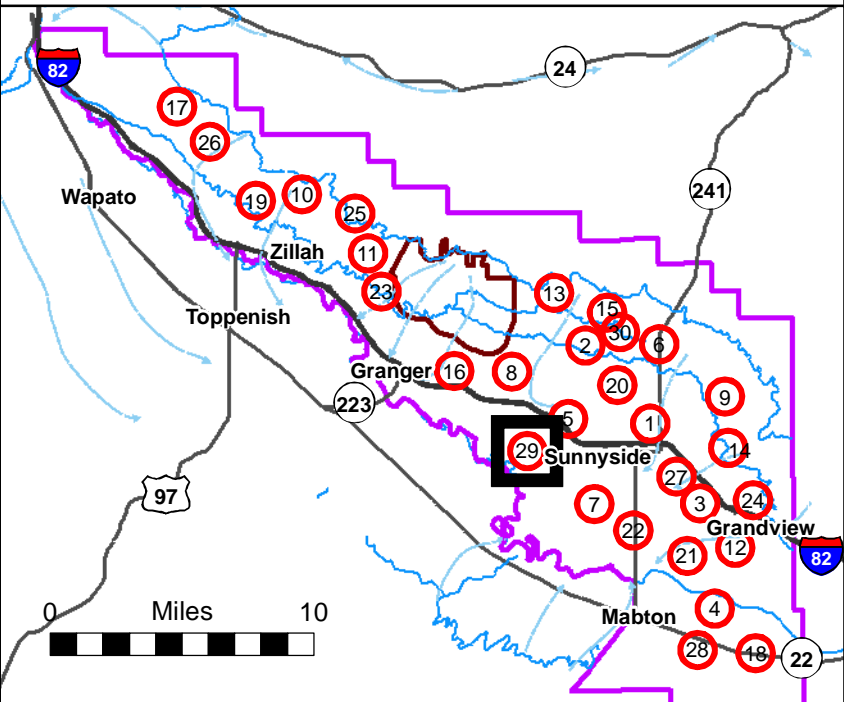
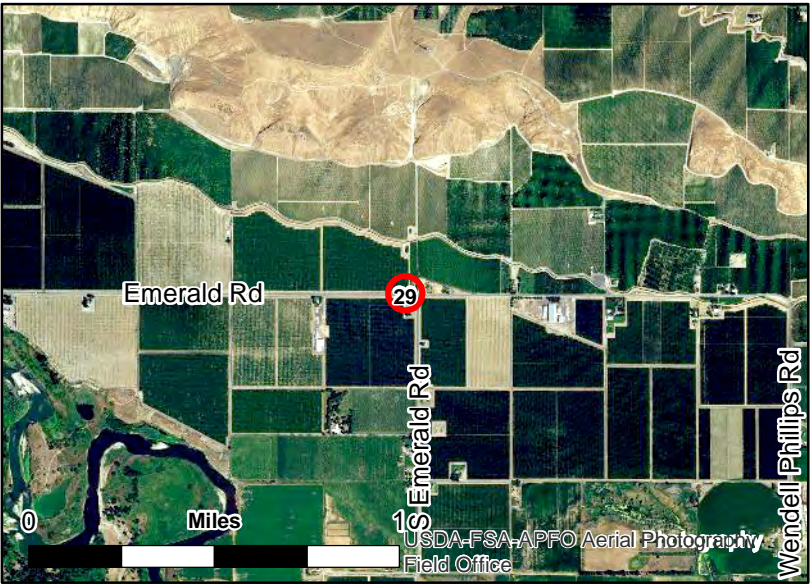


Site 29 Preliminary Drill Site and Field Located Site



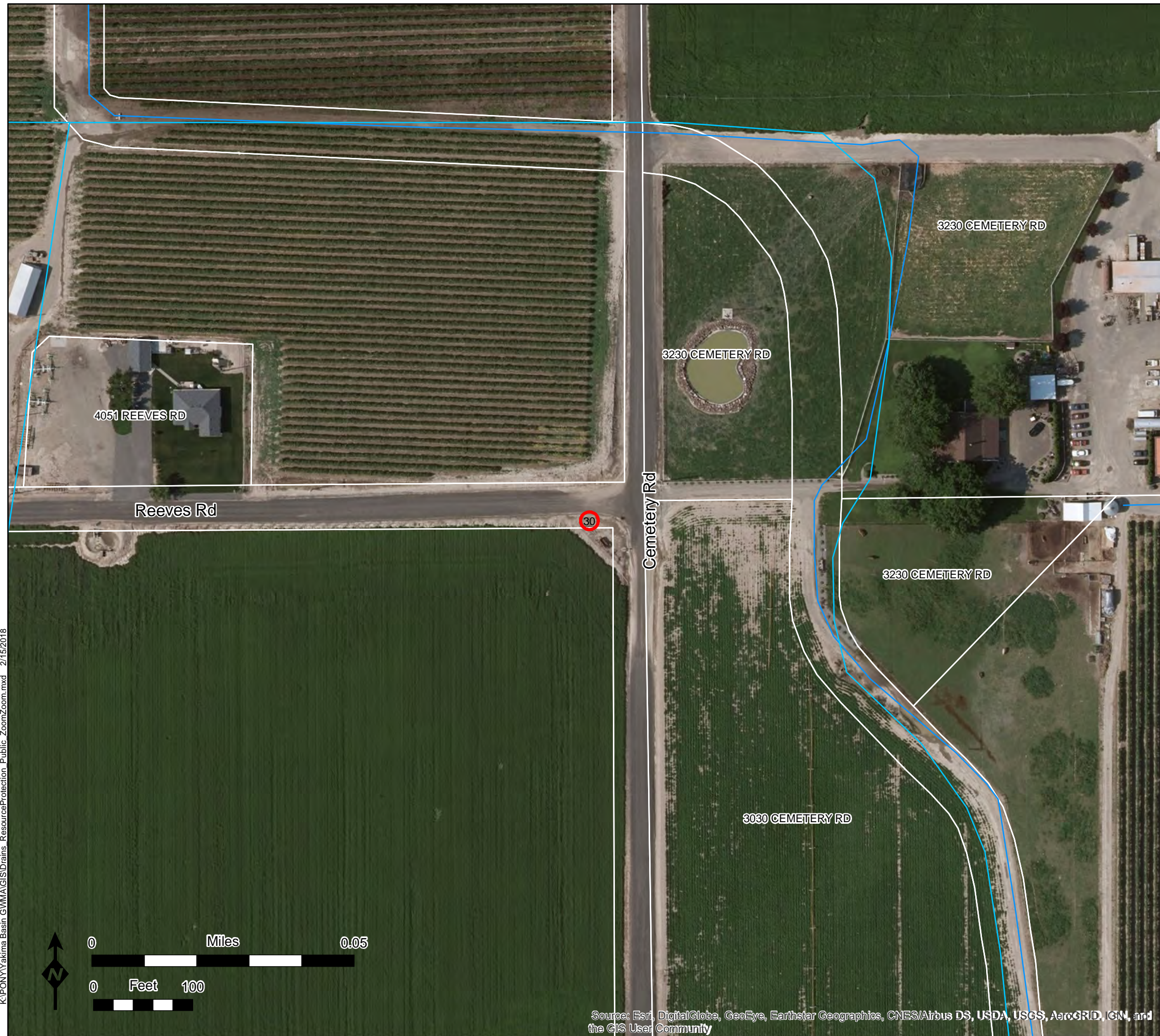
- Field Located MW Site Stake
- Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site 30 Preliminary Drill Site and Field Located Site

PGG

-  Field Located MW Site Stake
-  Canals & Lateral Lines

Parcel Data from Country. Does not necessarily reflect precise parcel boundary.
Aerial Photo from ESRI. Accuracy of Aerial Photo Unknown.

