

DOCKETED

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| Docket Number: | 08-AFC-08A |
| Project Title: | Hydrogen Energy Center Application for Certification Amendment |
| TN #: | 200439 |
| Document Title: | Updates to the Hydrogen Energy California Jurisdictional Delineation |
| Description: | N/A |
| Filer: | Tiffani Winter |
| Organization: | URS Corporation |
| Submitter Role: | Applicant's Consultant |
| Submission Date: | 9/10/2013 1:55:54 PM |
| Docketed Date: | 9/10/2013 |



September 9, 2013

Jason Deters
Project Manager, California South Branch
U.S. Army Corps of Engineers
Sacramento District, Regulatory Division
1325 J Street, Room 1350

Re: Requested Updates to the Hydrogen Energy California Jurisdictional Delineation

Dear Mr. Deters:

This letter transmits the following updated materials that you requested via e-mail on August 27, 2013:

1. A complete table of waters within the study area, including acreages; and
2. A complete set of maps depicting all waters within the study area.

The enclosed tabular summaries are separated into three parts: Table A summarizes the features in the HECA project study area; Table B summarizes the features in the OEHI project study area and Table C provides the total areas of all features delineated in the two study areas.

In addition, OEHI has identified the unnamed feature that you noted in the GIS data, which is located immediately east of OEHI feature G4 (identified in the enclosed files as "NJ OEHI 35). This ephemeral drainage had been inadvertently omitted from OEHI's July 2013 figures but is now included on the enclosed maps as feature NJ OEHI 14.

If you have any further questions, please contact Steve Leach at 510-874-3205 or Jan Novak at 510-874-1733.

Sincerely,

URS Corporation

A handwritten signature in blue ink, appearing to read "Dale Shileikis".

Dale Shileikis
Vice President, Project Manager

Enclosures:

Table A – Area of Delineated Features within the HECA Study Area

Table B – Area of Delineated Features within the OEHI Study Area

Table C – Summary of all Delineated Features within the HECA and OEHI Study Areas

JD Maps – Revised Jurisdictional Delineation Maps depicting all features delineated in the HECA and OEHI study areas (1 inch equals 400 feet)

Table A
Area of Delineated Features within the HECA Study Area

| Feature ID | Feature Area (square feet) | Feature Area (acre**) |
|--|---------------------------------------|----------------------------------|
| WL 1* | 51 | 0.00 |
| Wetland Waters of the U.S. Subtotal | 51 | 0.00 |
| | | |
| WUS 01* | 5 | 0.00 |
| WUS 05* | 892 | 0.02 |
| WUS 06* | 2,140 | 0.05 |
| WUS 07* | 1,105 | 0.03 |
| WUS 24* | 1,096 | 0.03 |
| WUS 25* | 5,530 | 0.13 |
| WUS 26* | 842 | 0.02 |
| WUS 27* | 373 | 0.01 |
| WUS 28* | 648 | 0.01 |
| WUS 29* | 4,521 | 0.10 |
| WUS 30* | 743 | 0.02 |
| WUS 31* | 4,552 | 0.10 |
| WUS 32* | 2,619 | 0.06 |
| WUS 33* | 4,407 | 0.10 |
| WUS 34* | 291 | 0.01 |
| WUS 35* | 8,918 | 0.20 |
| WUS 36* | 5,334 | 0.12 |
| WUS 37* | 1,724 | 0.04 |
| WUS 38* | 12,083 | 0.28 |
| WUS 39* | 3,169 | 0.07 |
| WUS 40* | 1,608 | 0.04 |
| WUS 41* | 660 | 0.02 |
| WUS 53 (California Aqueduct) | 20,219 | 0.46 |
| WUS 54 (Kern River, Flood Control Channel) | 11,826 | 0.27 |
| WUS 63* | 5 | 0.00 |
| WUS 64* | 132 | 0.00 |
| Other Waters of the U.S. Subtotal | 95,442 | 2.19 |
| TOTAL POTENTIAL WATERS OF THE U.S. | 95,493 | 2.19 |
| | | |
| NJ 01 (Westside Canal) | 2,247,865 | 51.60 |
| NJ 02 | 1,135 | 0.03 |
| NJ 05 | 734 | 0.02 |
| NJ 07 | 726 | 0.02 |

| Feature ID | Feature Area (square feet) | Feature Area (acre**) |
|----------------------|---------------------------------------|----------------------------------|
| NJ 08 | 1,517 | 0.03 |
| NJ 09 | 1,369 | 0.03 |
| NJ 10 | 2,352 | 0.05 |
| NJ 11 | 22,484 | 0.52 |
| NJ 12 | 1,808 | 0.04 |
| NJ 13 | 16,654 | 0.38 |
| NJ 14 | 29,049 | 0.67 |
| NJ 15 | 2,940 | 0.07 |
| NJ 16 | 551 | 0.01 |
| NJ 17 | 2,346 | 0.05 |
| NJ 18 | 15,714 | 0.36 |
| NJ 19 | 9,173 | 0.21 |
| NJ 20 | 14,014 | 0.32 |
| NJ 21 | 10,032 | 0.23 |
| NJ 22 | 13,731 | 0.32 |
| NJ 23 | 1,359 | 0.03 |
| NJ 24 | 13,601 | 0.31 |
| NJ 25 | 63,222 | 1.45 |
| NJ 26 | 16,889 | 0.39 |
| NJ 27 | 3,635 | 0.08 |
| NJ 28 (Outlet Canal) | 207,865 | 4.77 |
| NJ 29 | 31,771 | 0.73 |
| NJ 30 | 46,857 | 1.08 |
| NJ 31 | 78,742 | 1.81 |
| NJ 32 | 122,443 | 2.81 |
| NJ 33 | 34,970 | 0.80 |
| NJ 34 | 30,703 | 0.70 |
| NJ 35 | 7,754 | 0.18 |
| NJ 36 | 832 | 0.02 |
| NJ 37 | 17,057 | 0.39 |
| NJ 38 | 2,202 | 0.05 |
| NJ 39 | 61,703 | 1.42 |
| NJ 40 | 8,696 | 0.20 |
| NJ 41 | 30,523 | 0.70 |
| NJ 42 | 1,592 | 0.04 |
| NJ 43 | 8,304 | 0.19 |
| NJ 44 | 5,516 | 0.13 |
| NJ 45 | 100 | 0.00 |
| NJ 46 | 1,887 | 0.04 |

| Feature ID | Feature Area (square feet) | Feature Area (acre**) |
|--|---------------------------------------|----------------------------------|
| NJ 47 | 1,660 | 0.04 |
| NJ 50 | 4,558 | 0.10 |
| NJ 51 | 841 | 0.02 |
| NJ 52 | 1,727 | 0.04 |
| NJ 54 (Eastside Canal) | 29,978 | 0.69 |
| NJ 55 | 17,123 | 0.39 |
| NJ 56 | 9,052 | 0.21 |
| NJ 60 | 10,881 | 0.25 |
| NJ 62 | 38,672 | 0.89 |
| NJ 63 | 180 | 0.00 |
| NJ 64 | 107 | 0.00 |
| NJ 65 | 464 | 0.01 |
| NJ 66 | 4,624 | 0.11 |
| NJ 67 | 3,213 | 0.07 |
| NJ 68 | 354 | 0.01 |
| NJ 69 | 2,108 | 0.05 |
| NJ 70 | 1,121 | 0.03 |
| NJ 71 | 810 | 0.02 |
| Total Area of assumed non-jurisdictional waters not regulated under the federal Clean Water Act | 3,319,890 | 76.21 |

Notes:

* Pending review by the USACE, these features may be determined to be isolated and not jurisdictional.

** Acreage totals are rounded from square feet. Totals less than 0.005 are rounded to 0.00.

Table B
Area of Delineated Features within the OEHI Study Area

| Feature ID | Feature Type | Feature Area (square feet) | Feature Area (acre*) |
|-------------------|---------------------|---------------------------------------|---------------------------------|
| NJ OEHI 01 | ephemeral drainage | 100 | 0.00 |
| NJ OEHI 02 | ephemeral drainage | 336 | 0.01 |
| NJ OEHI 03 | ephemeral drainage | 295 | 0.01 |
| NJ OEHI 04 | ephemeral drainage | 209 | 0.00 |
| NJ OEHI 05 | ephemeral drainage | 167 | 0.00 |
| NJ OEHI 06 | ephemeral drainage | 149 | 0.00 |
| NJ OEHI 07 | ephemeral drainage | 486 | 0.01 |
| NJ OEHI 08 | ephemeral drainage | 775 | 0.02 |
| NJ OEHI 09 | ephemeral drainage | 5,103 | 0.12 |
| NJ OEHI 10 | ephemeral drainage | 942 | 0.02 |
| NJ OEHI 11 | ephemeral drainage | 3,319 | 0.08 |
| NJ OEHI 12 | ephemeral drainage | 2,273 | 0.05 |
| NJ OEHI 13 | ephemeral drainage | 674 | 0.02 |
| NJ OEHI 14 | ephemeral drainage | 1,329 | 0.03 |
| NJ OEHI 15 | ephemeral drainage | 3,826 | 0.09 |
| NJ OEHI 16 | ephemeral drainage | 606 | 0.01 |
| NJ OEHI 17 | ephemeral drainage | 382 | 0.01 |
| NJ OEHI 18 | ephemeral drainage | 353 | 0.01 |
| NJ OEHI 19 | ephemeral drainage | 237 | 0.01 |
| NJ OEHI 20 | ephemeral drainage | 70 | 0.00 |
| NJ OEHI 21 | ephemeral drainage | 167 | 0.00 |
| NJ OEHI 22 | ephemeral drainage | 59 | 0.00 |
| NJ OEHI 23 | ephemeral drainage | 239 | 0.01 |
| NJ OEHI 24 | ephemeral drainage | 1,344 | 0.03 |
| NJ OEHI 25 | ephemeral drainage | 1,118 | 0.03 |
| NJ OEHI 26 | ephemeral drainage | 569 | 0.01 |
| NJ OEHI 27 | erosional feature | 2,081 | 0.05 |
| NJ OEHI 28 | erosional feature | 2,005 | 0.05 |
| NJ OEHI 29 | erosional feature | 735 | 0.02 |
| NJ OEHI 30 | erosional feature | 789 | 0.02 |
| NJ OEHI 31 | erosional feature | 222 | 0.01 |
| NJ OEHI 32 | erosional feature | 187 | 0.00 |
| NJ OEHI 33 | erosional feature | 696 | 0.02 |
| NJ OEHI 34 | erosional feature | 335 | 0.01 |
| NJ OEHI 35 | erosional feature | 800 | 0.02 |
| NJ OEHI 36 | erosional feature | 858 | 0.02 |
| NJ OEHI 37 | erosional feature | 506 | 0.01 |

| Feature ID | Feature Type | Feature Area (square feet) | Feature Area (acre*) |
|--|---------------------|---------------------------------------|---------------------------------|
| NJ OEHI 38 | erosional feature | 1,037 | 0.02 |
| NJ OEHI 39 | erosional feature | 1,343 | 0.03 |
| NJ OEHI 40 | isolated wetland | 276 | 0.01 |
| NJ OEHI 41 | isolated wetland | 27 | 0.00 |
| NJ OEHI 42 | isolated wetland | 85 | 0.00 |
| Total Area of assumed non-jurisdictional waters not regulated under the federal Clean Water Act | | 37,112 | 0.85 |

Notes:

*Acreage totals are rounded from square feet. Totals less than 0.005 are rounded to 0.00.

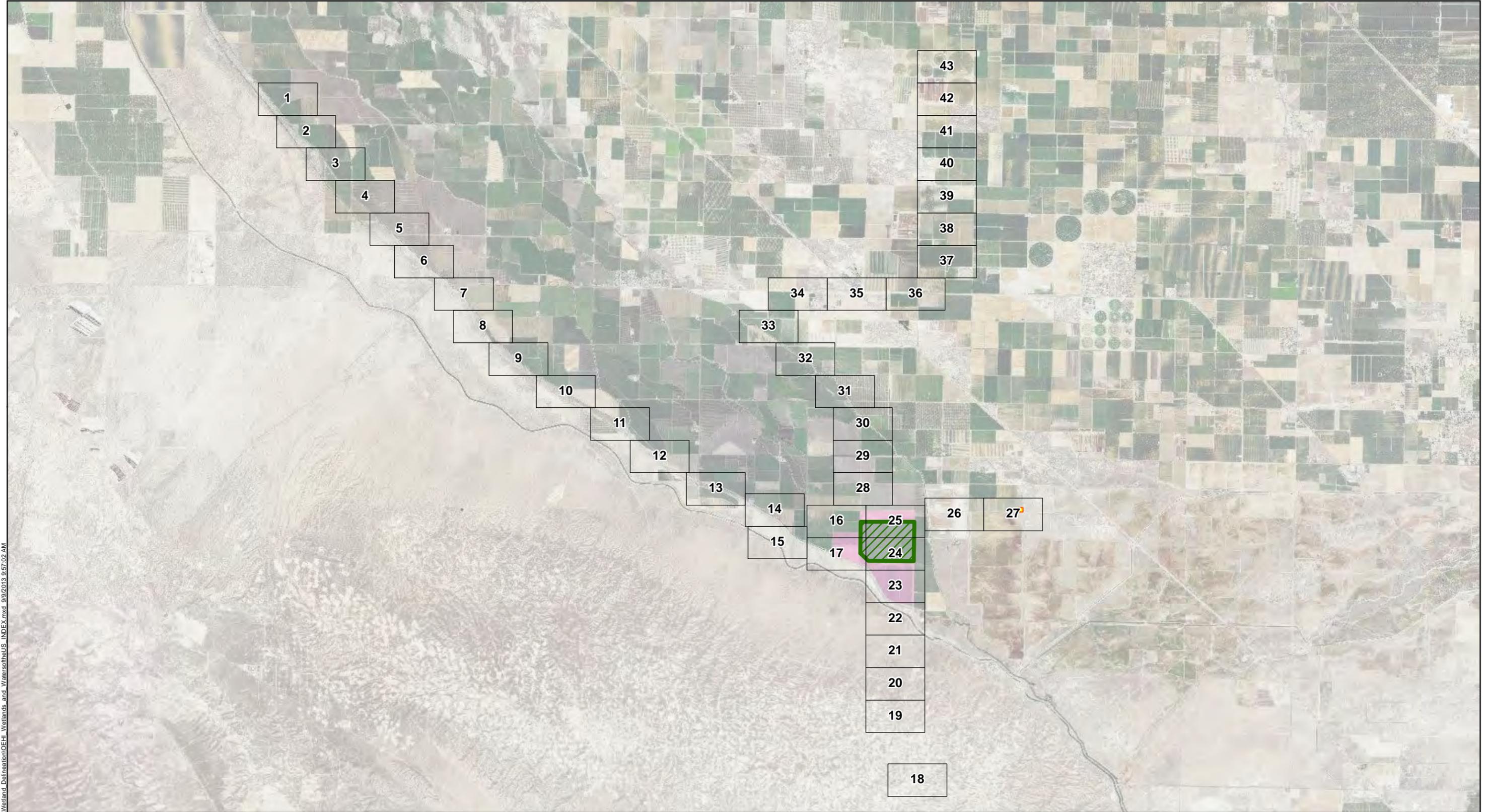
Table C
Summary of all Delineated Features within the HECA and OEHI Study Areas

| Feature Jurisdiction* | Project Study Area | Area (square feet) | Area (acre**) |
|--|---------------------------|-------------------------------|--------------------------|
| Wetland Waters of the U.S. | HECA | 51 | 0.00 |
| | OEHI | -- | -- |
| Wetland Waters of the U.S. Subtotal | | 51 | 0.00 |
| Other Waters of the U.S. | HECA | 95,442 | 2.19 |
| | OEHI | -- | -- |
| Other Waters of the U.S. Subtotal | | 95,442 | 2.19 |
| TOTAL POTENTIAL WATERS OF THE U.S. | | 95,493 | 2.19 |
| | | | |
| Non-Jurisdictional Waters | HECA | 3,319,890 | 76.21 |
| | OEHI | 37,112 | 0.85 |
| Total Area of assumed non-jurisdictional waters not regulated under the federal Clean Water Act | | 3,357,002 | 77.06 |

Notes:

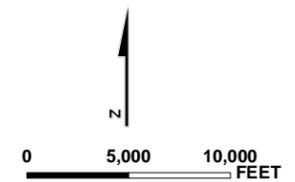
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- Project Site
- Controlled Area
- PG&E Switching Station



MAPPED WETLANDS AND OTHER WATERS OF THE UNITED STATES WITHIN THE STUDY AREA

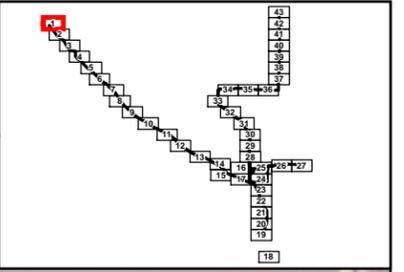
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Hydrogen Energy California (HECA)
Wetland Delineation
Kern County, California



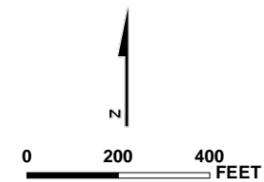
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Source: Aerial Imagery, USDA, NAIP, 2012.



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|------------------------|---------------------------------|---------------------------------|
| Delineation Study Area | EOR Processing Facility | Waters |
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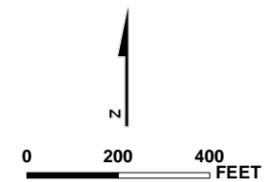
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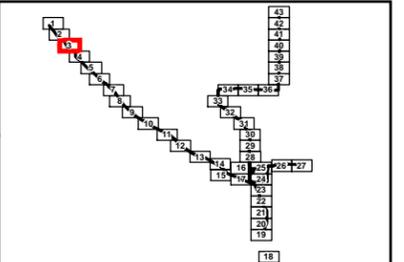
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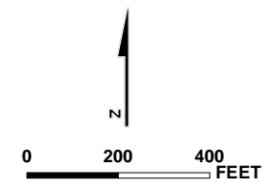


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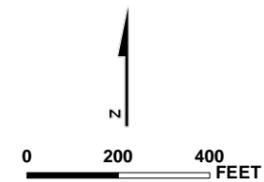


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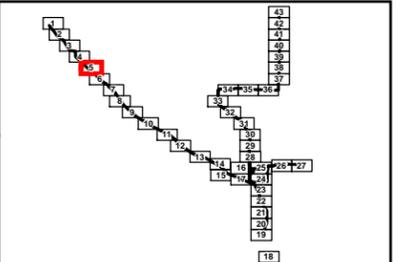
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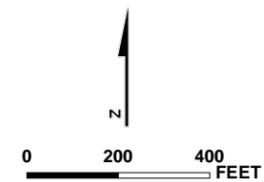
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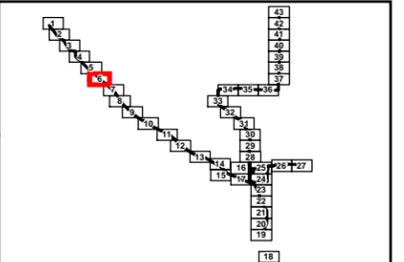


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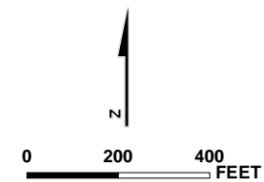
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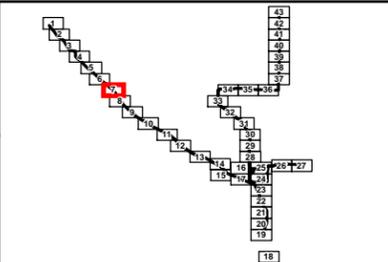
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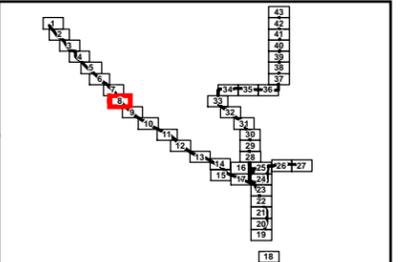
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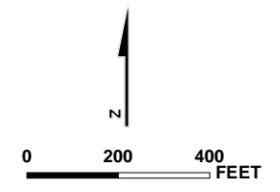
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NJ 1 (WESTSIDE CANAL)



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Hydrogen Energy California (HECA)
Wetland Delineation
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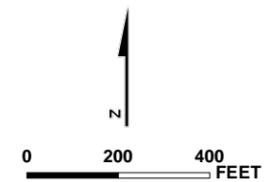


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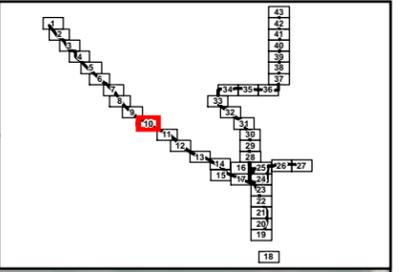


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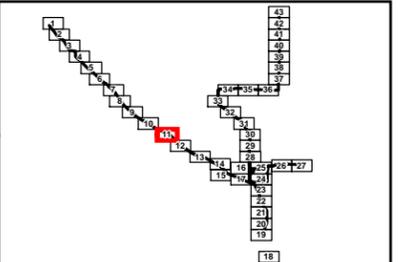
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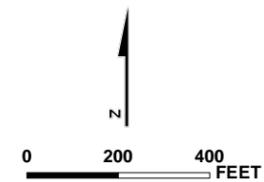


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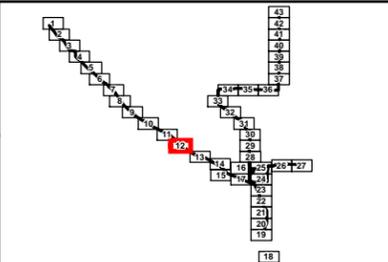
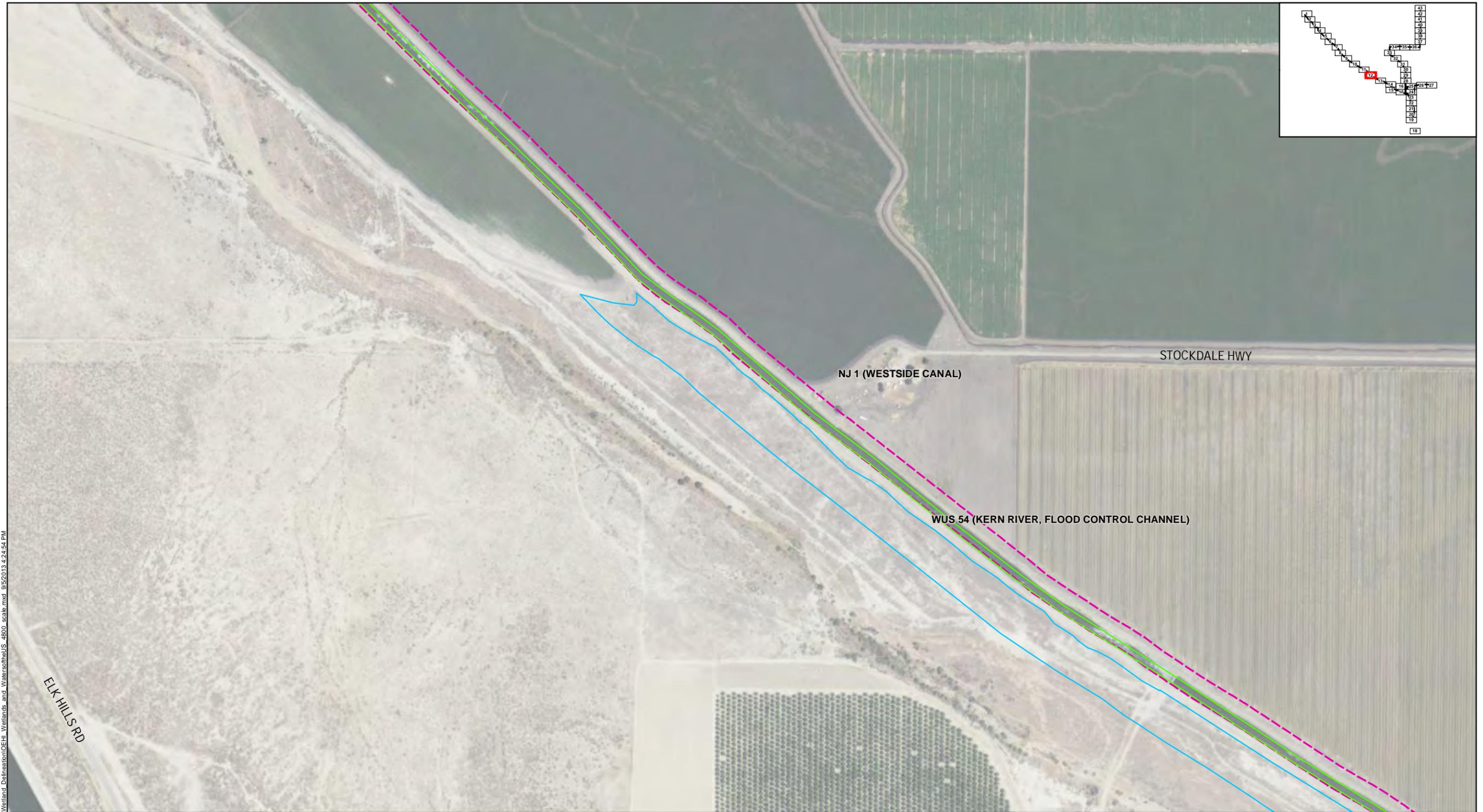
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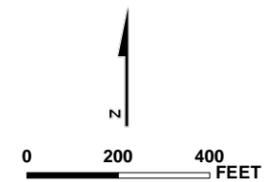
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Source: Aerial Imagery, USDA, NAIP, 2012.



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| Delineation Study Area | EOR Processing Facility | Waters |
| Project Site | EOR Satellite Gathering Station | Wetland Waters of the U.S. (WL) |
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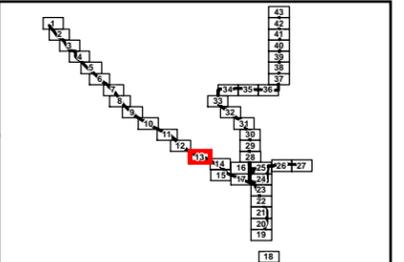


MAPPED WETLANDS AND OTHER WATERS OF THE UNITED STATES WITHIN THE STUDY AREA

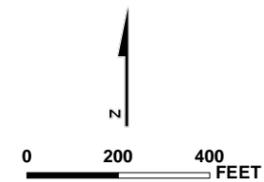
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 Hydrogen Energy California (HECA)
 Wetland Delineation
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Source: Aerial Imagery, USDA, NAIP, 2012.



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Wetland Delineation
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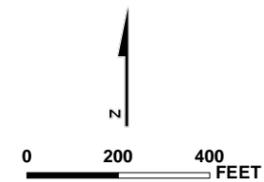
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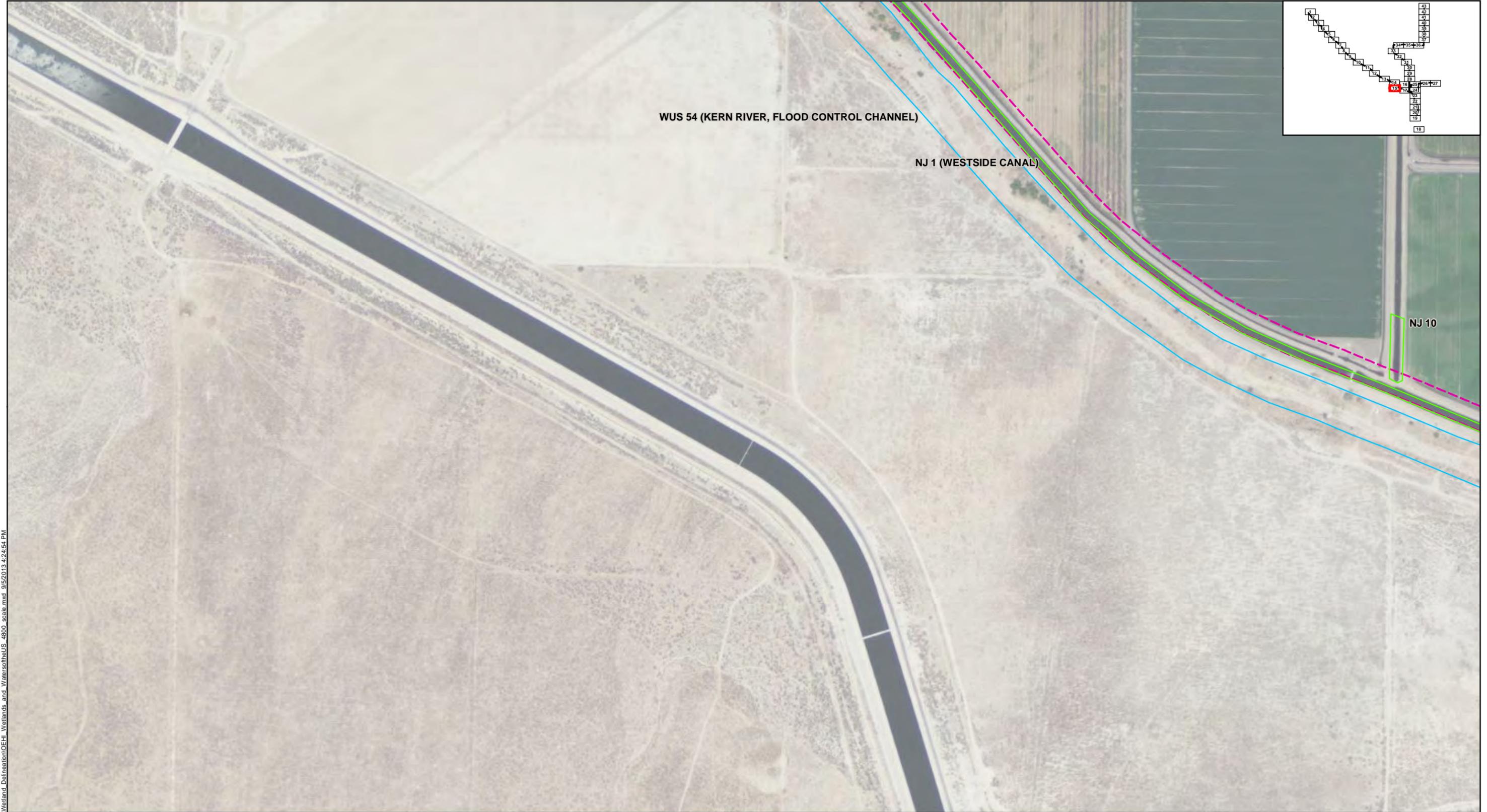
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Hydrogen Energy California (HECA)
Wetland Delineation
Kern County, California

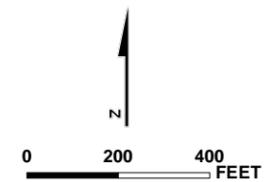


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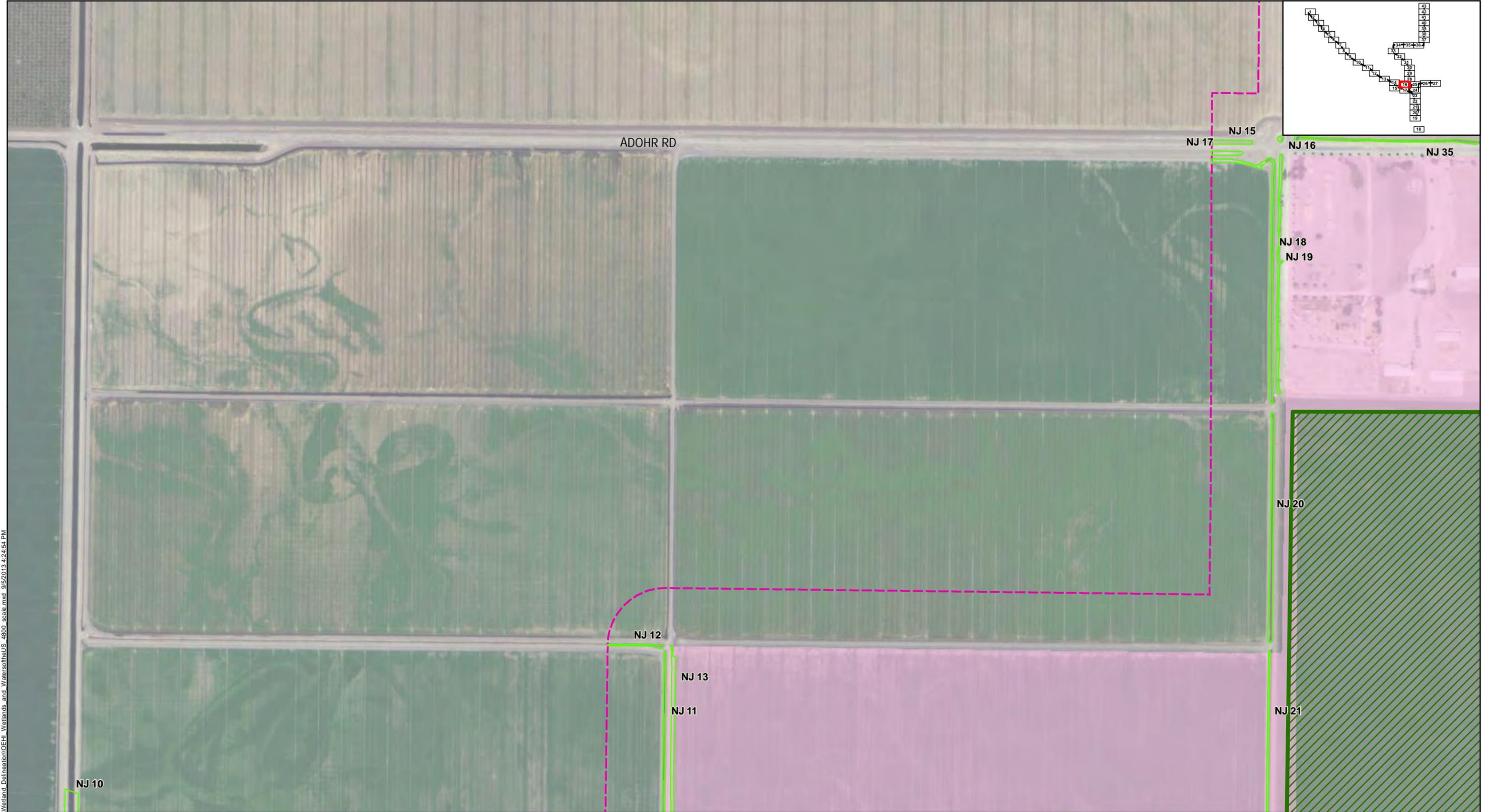


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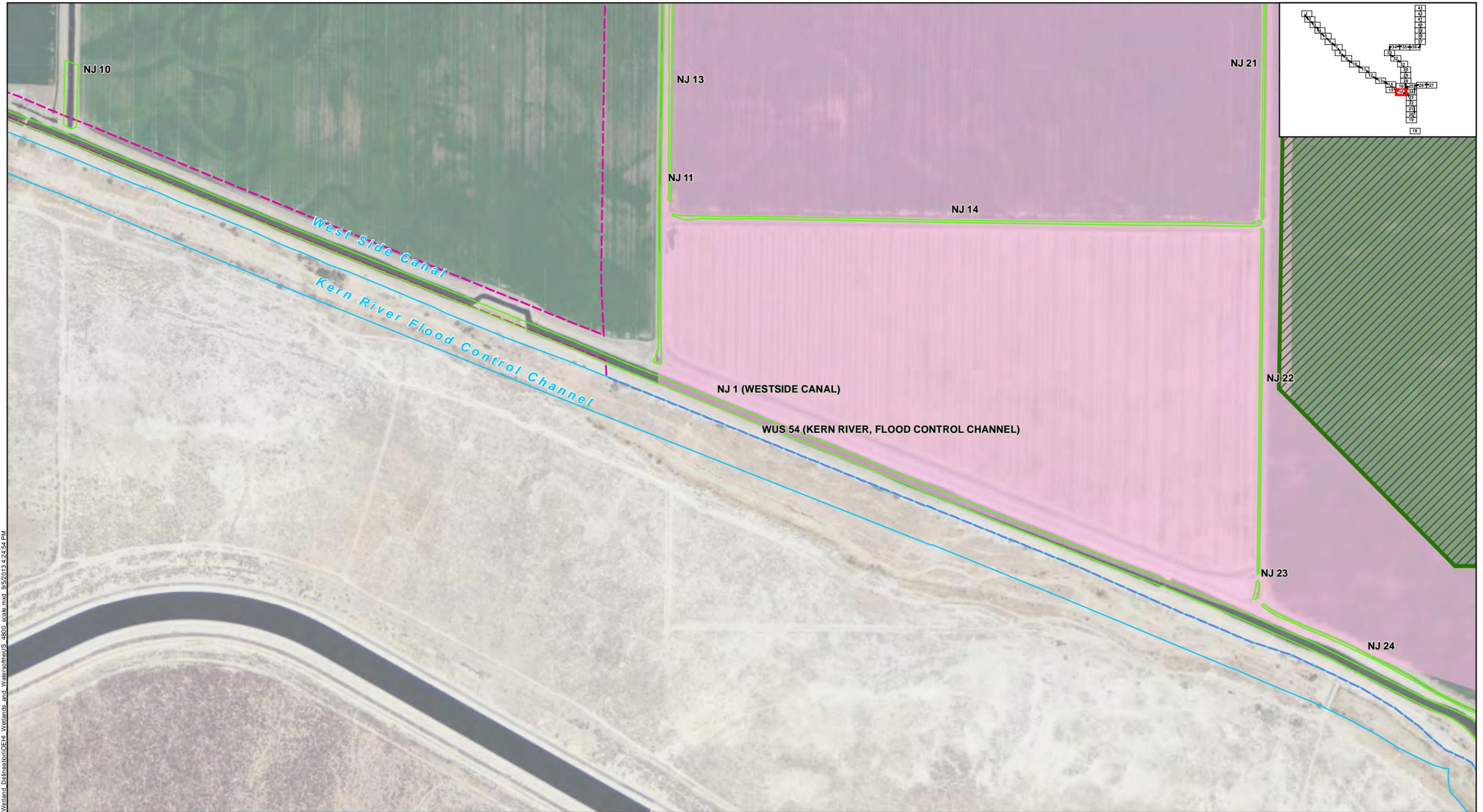
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Kern County, California

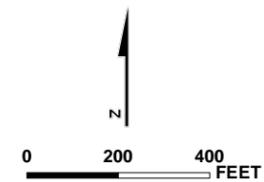


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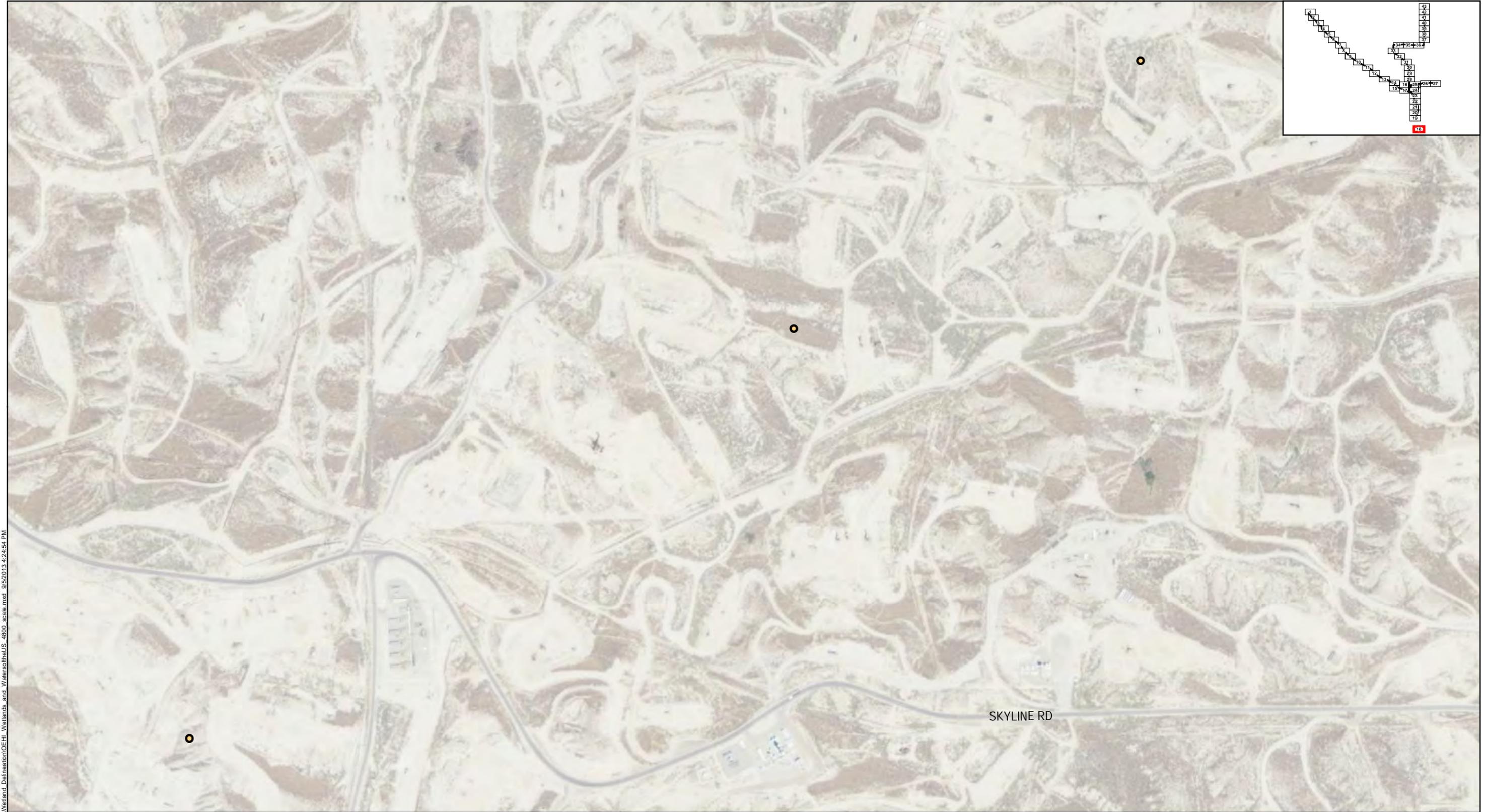
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Hydrogen Energy California (HECA)
Wetland Delineation
Kern County, California

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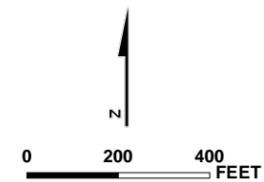
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Source: Aerial Imagery, USDA, NAIP, 2012.



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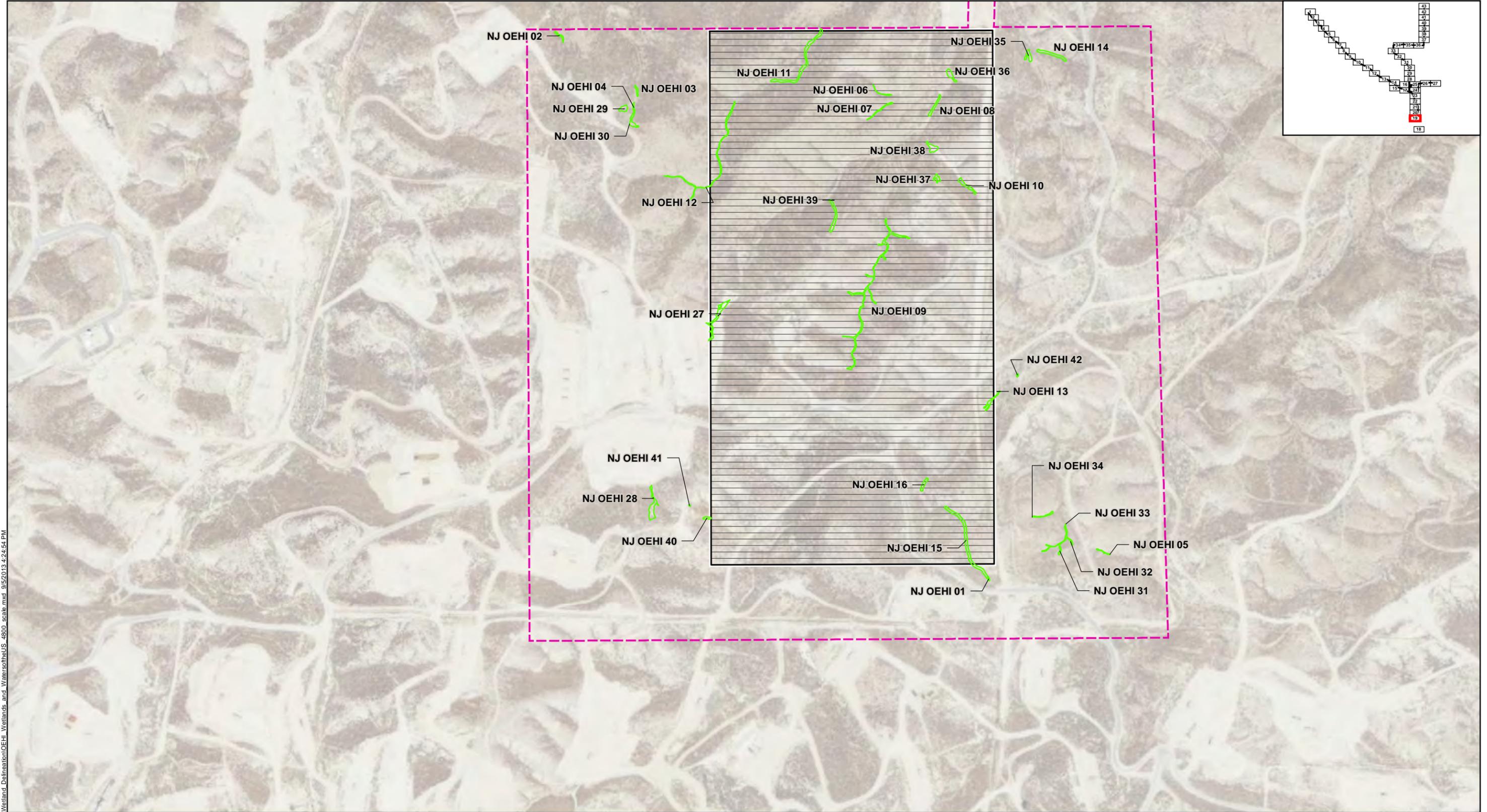


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 Kern County, California

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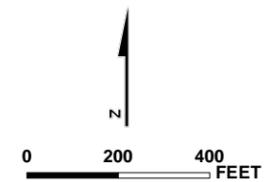


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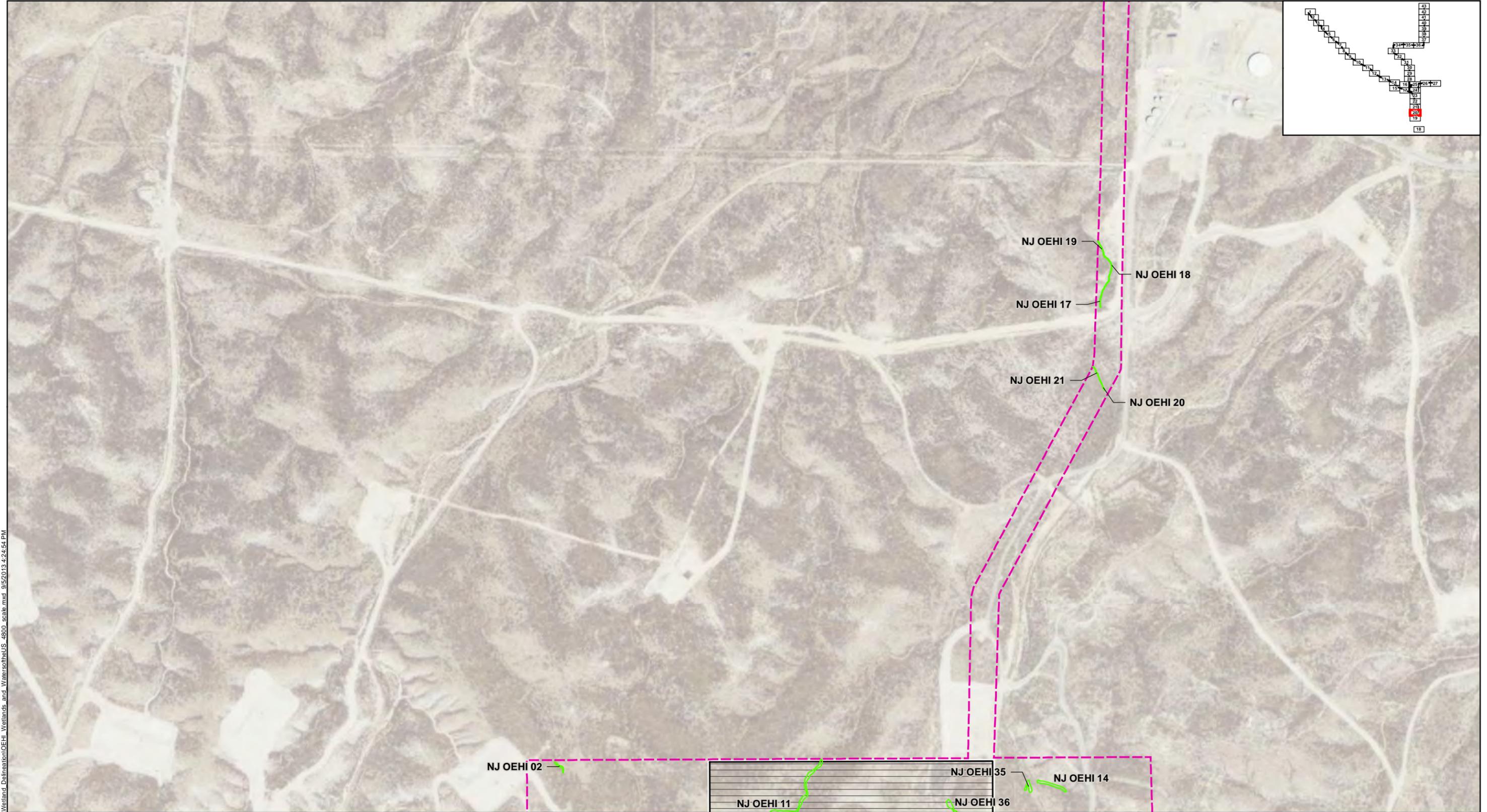


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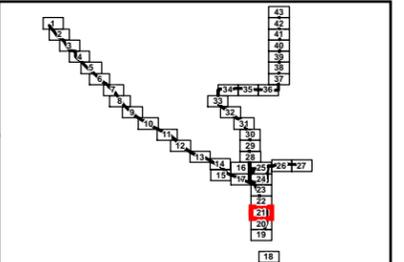
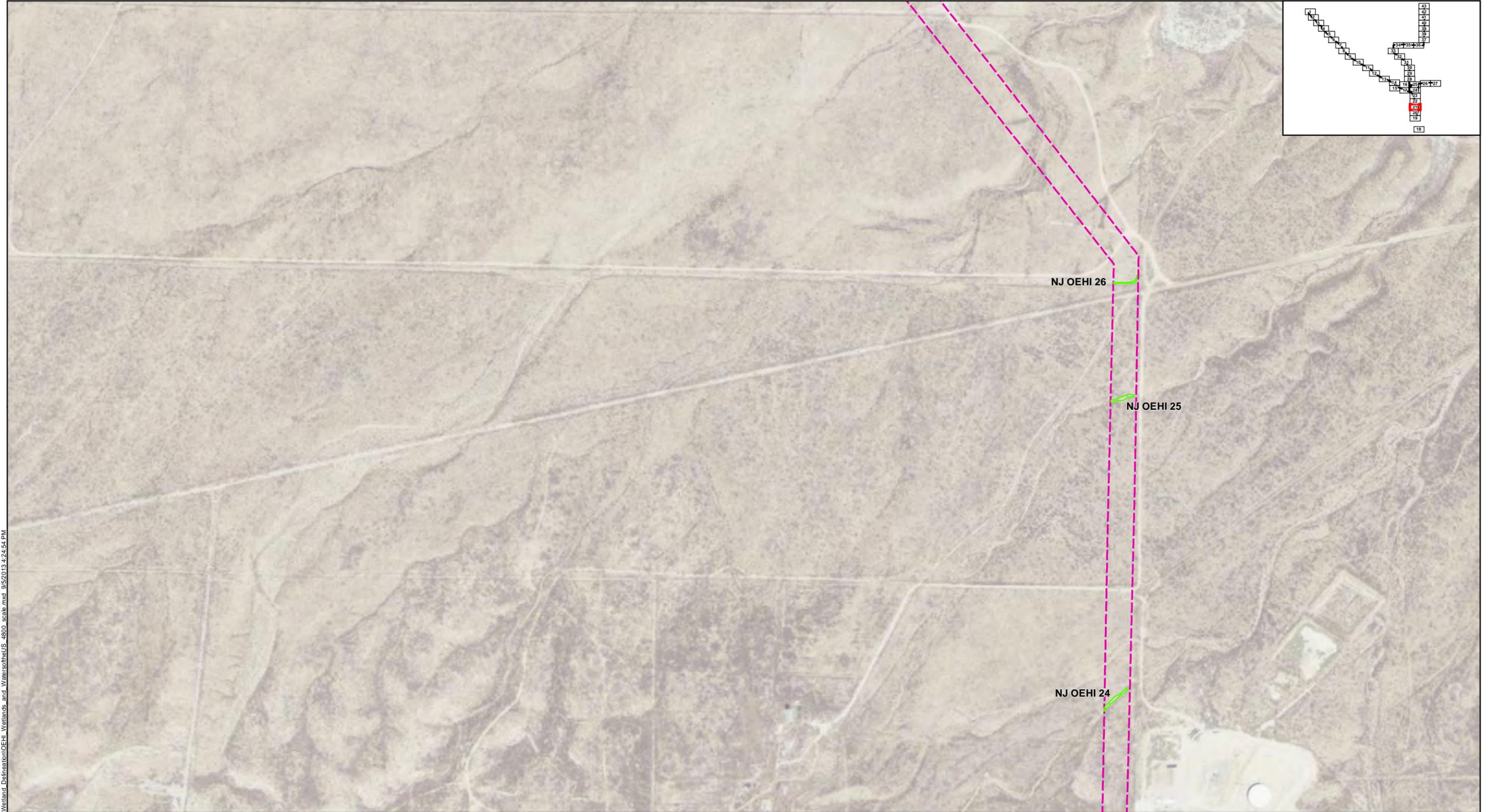
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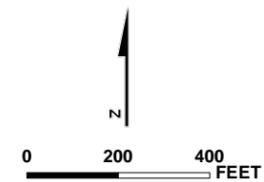
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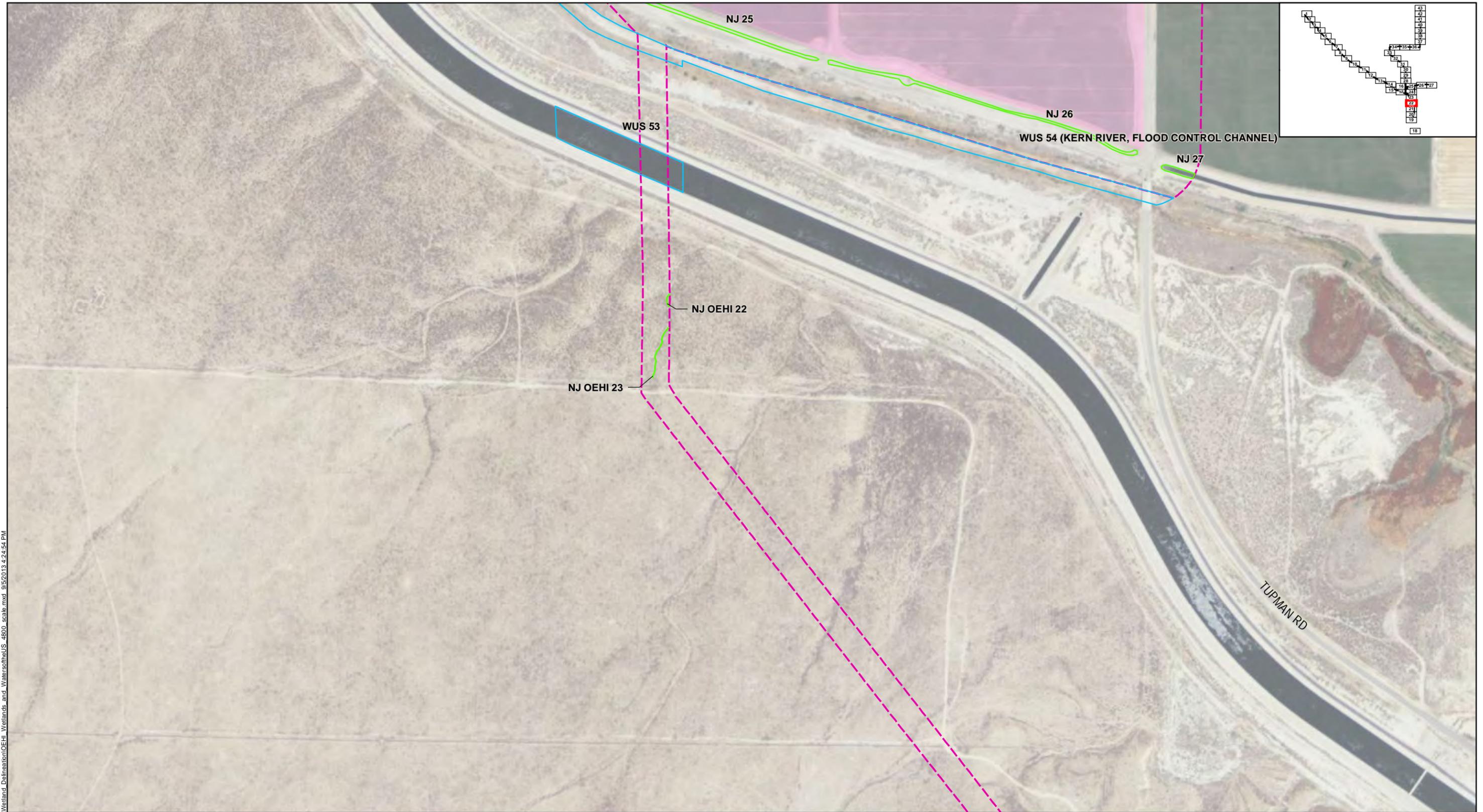
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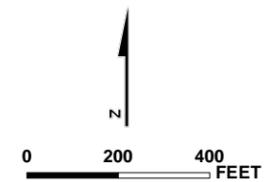
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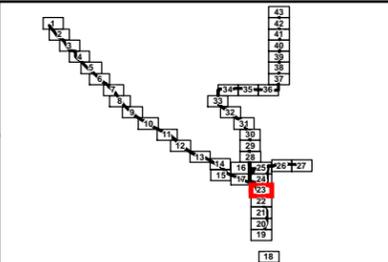
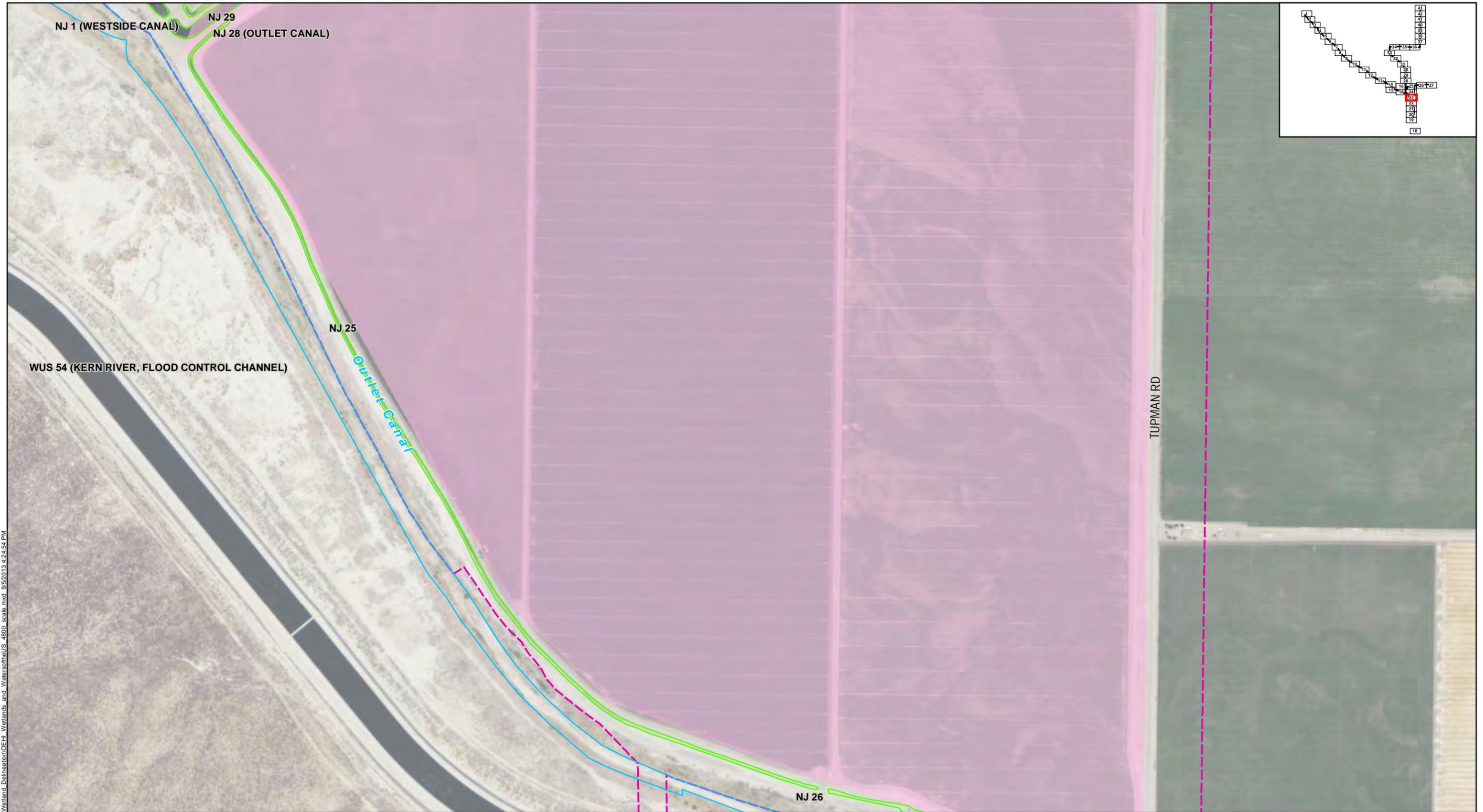


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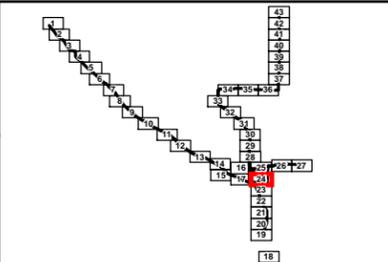
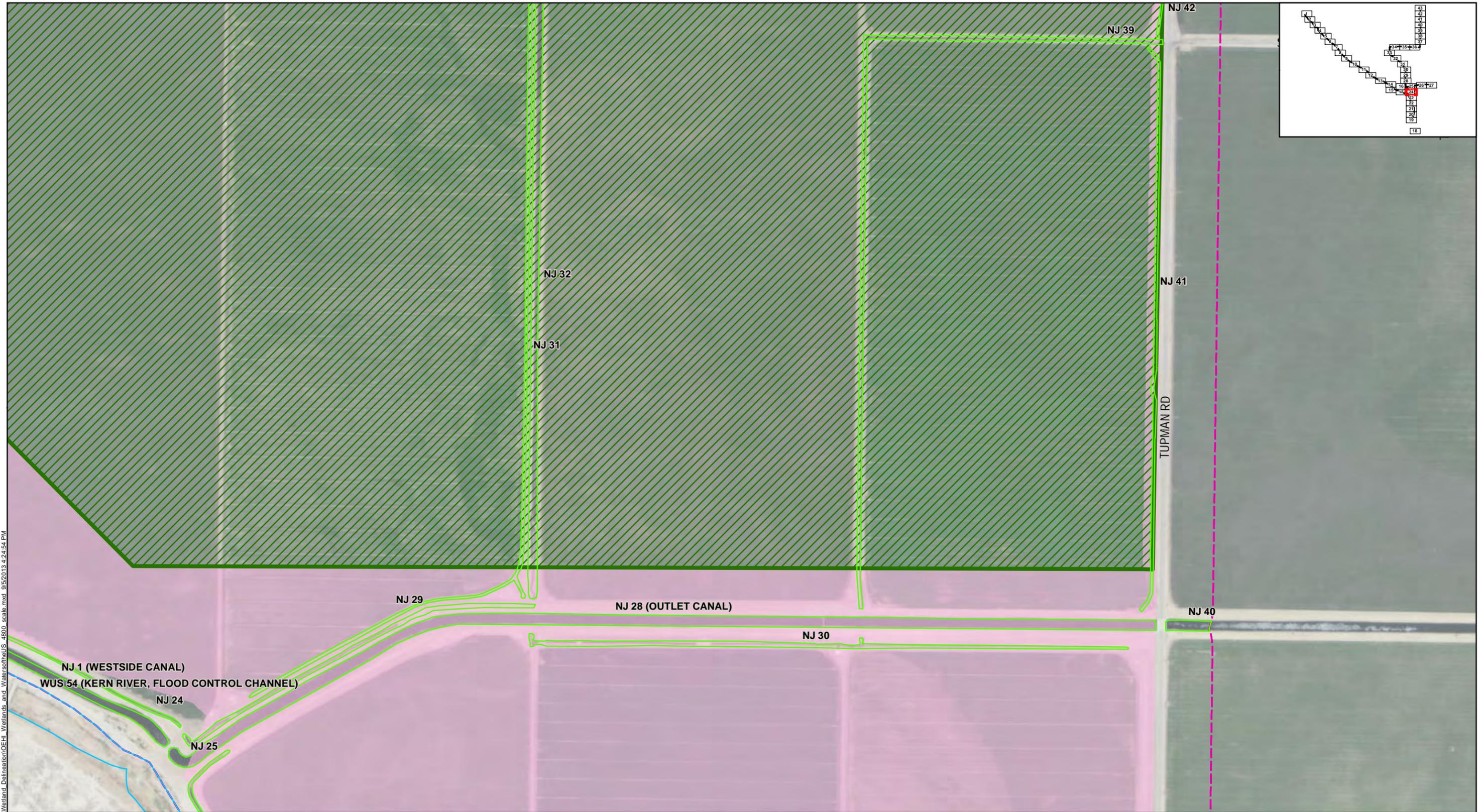
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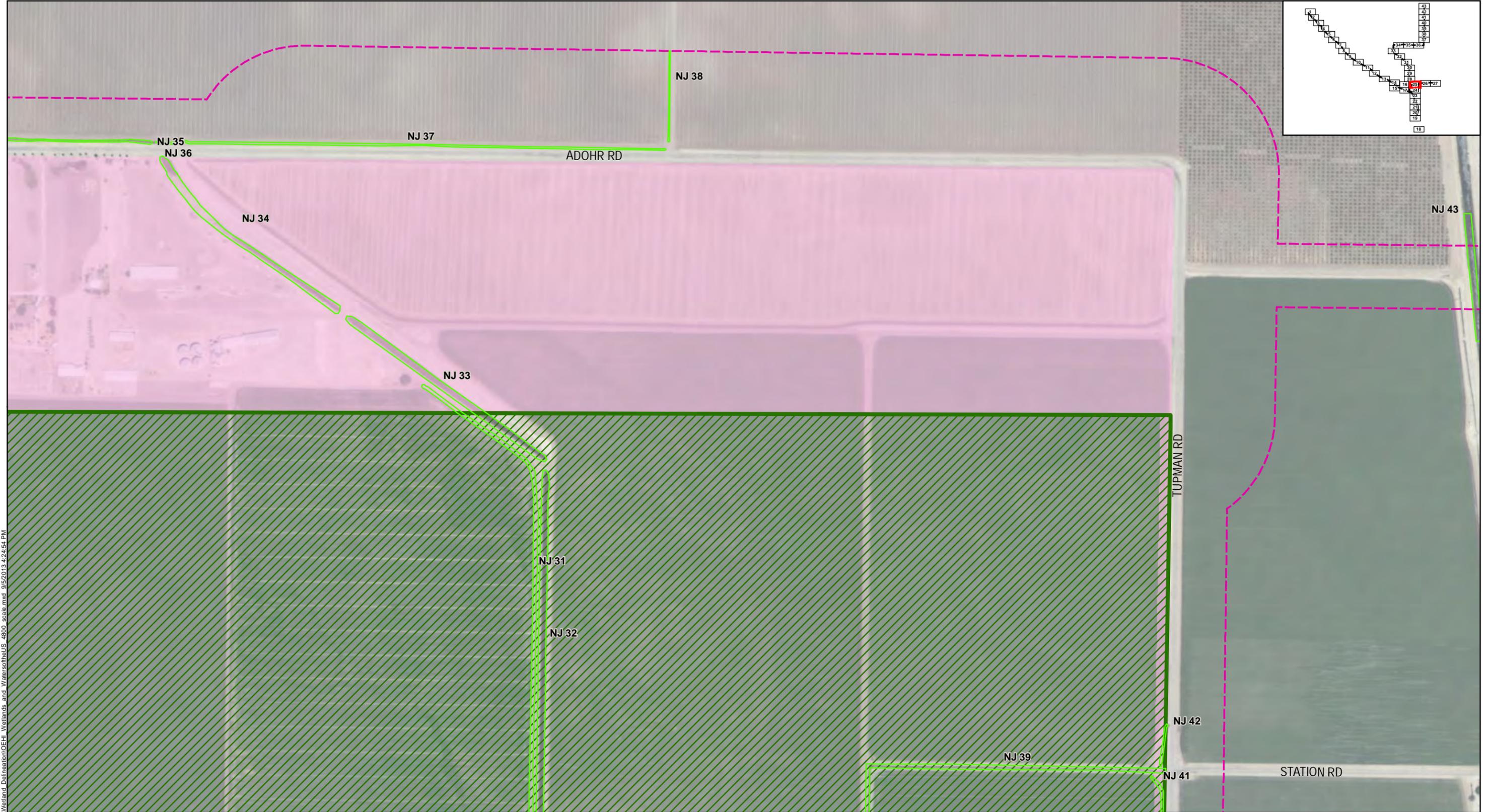
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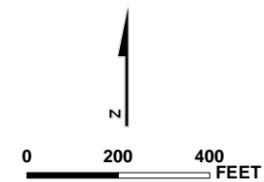


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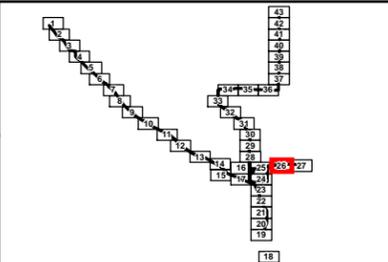
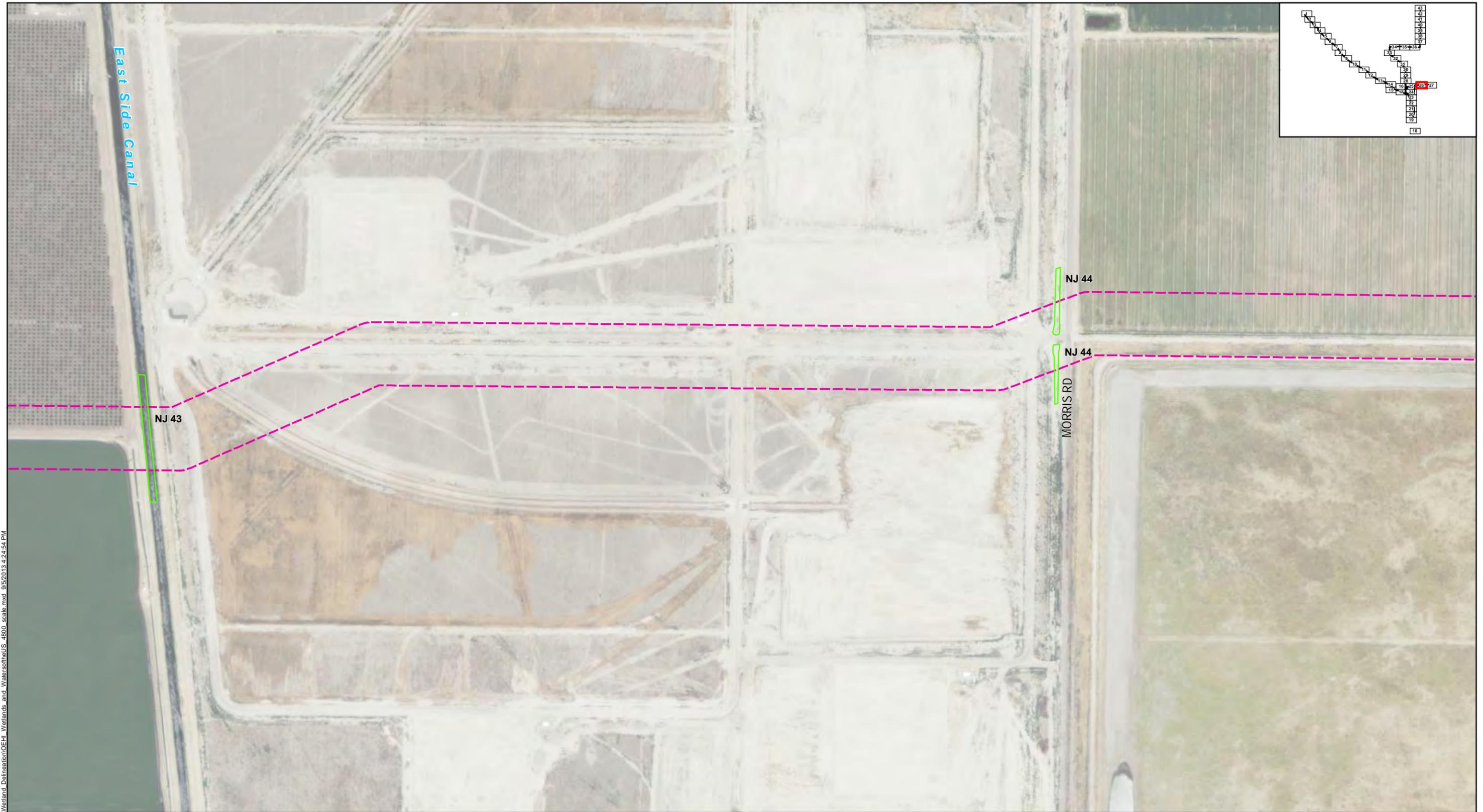
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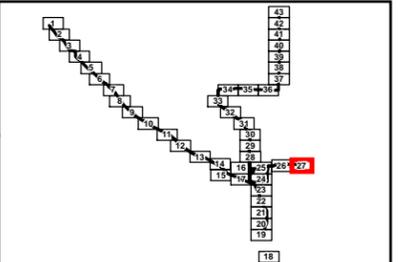
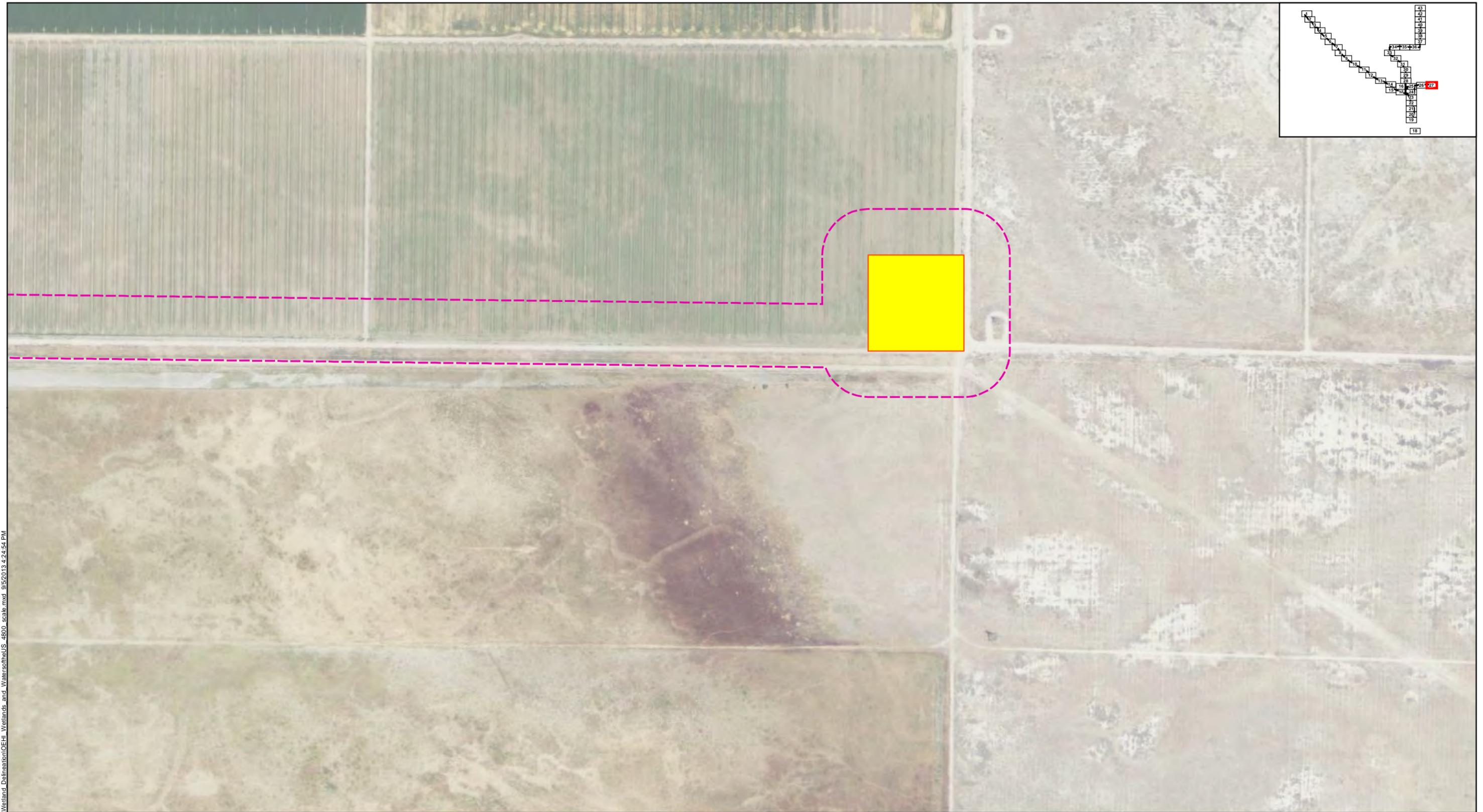
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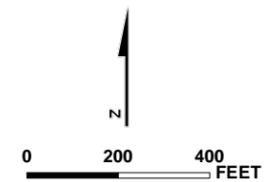


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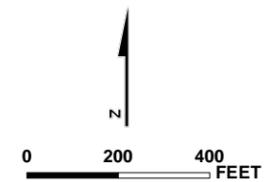


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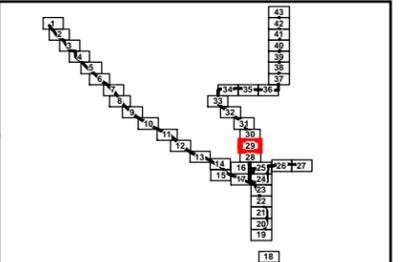
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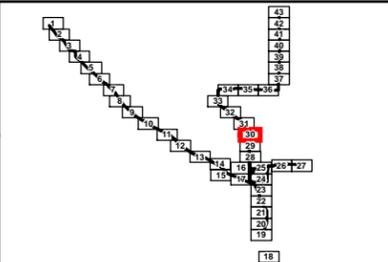
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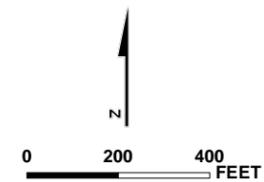


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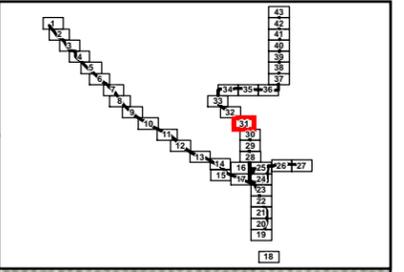
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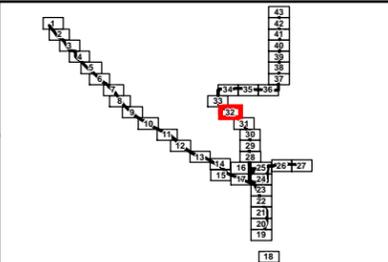
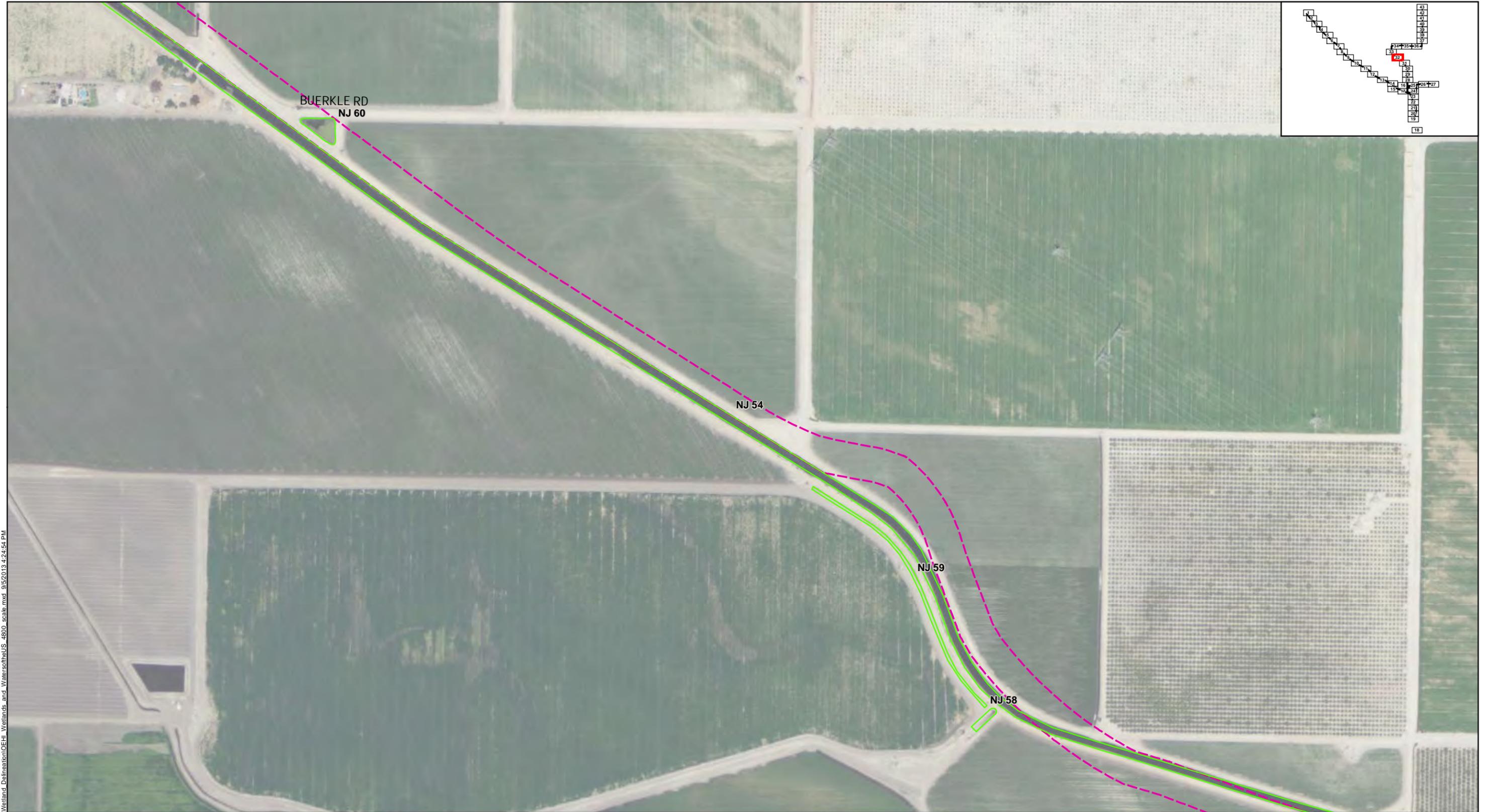
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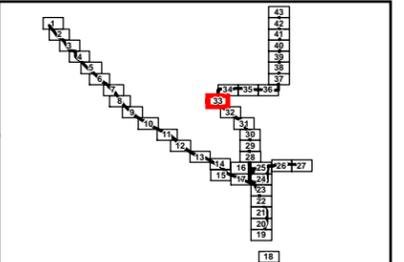
MAPPED WETLANDS AND OTHER WATERS OF THE UNITED STATES WITHIN THE STUDY AREA

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Hydrogen Energy California (HECA)
Wetland Delineation
Kern County, California



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Source: Aerial Imagery, USDA, NAIP, 2012.



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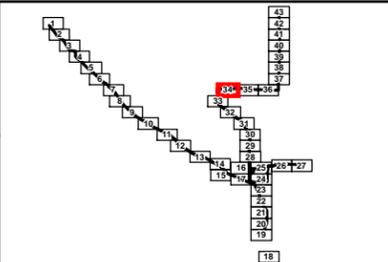
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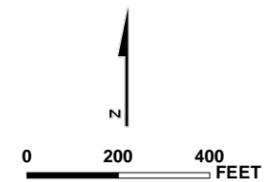


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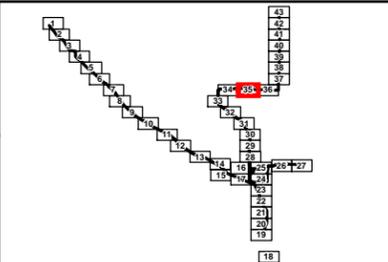
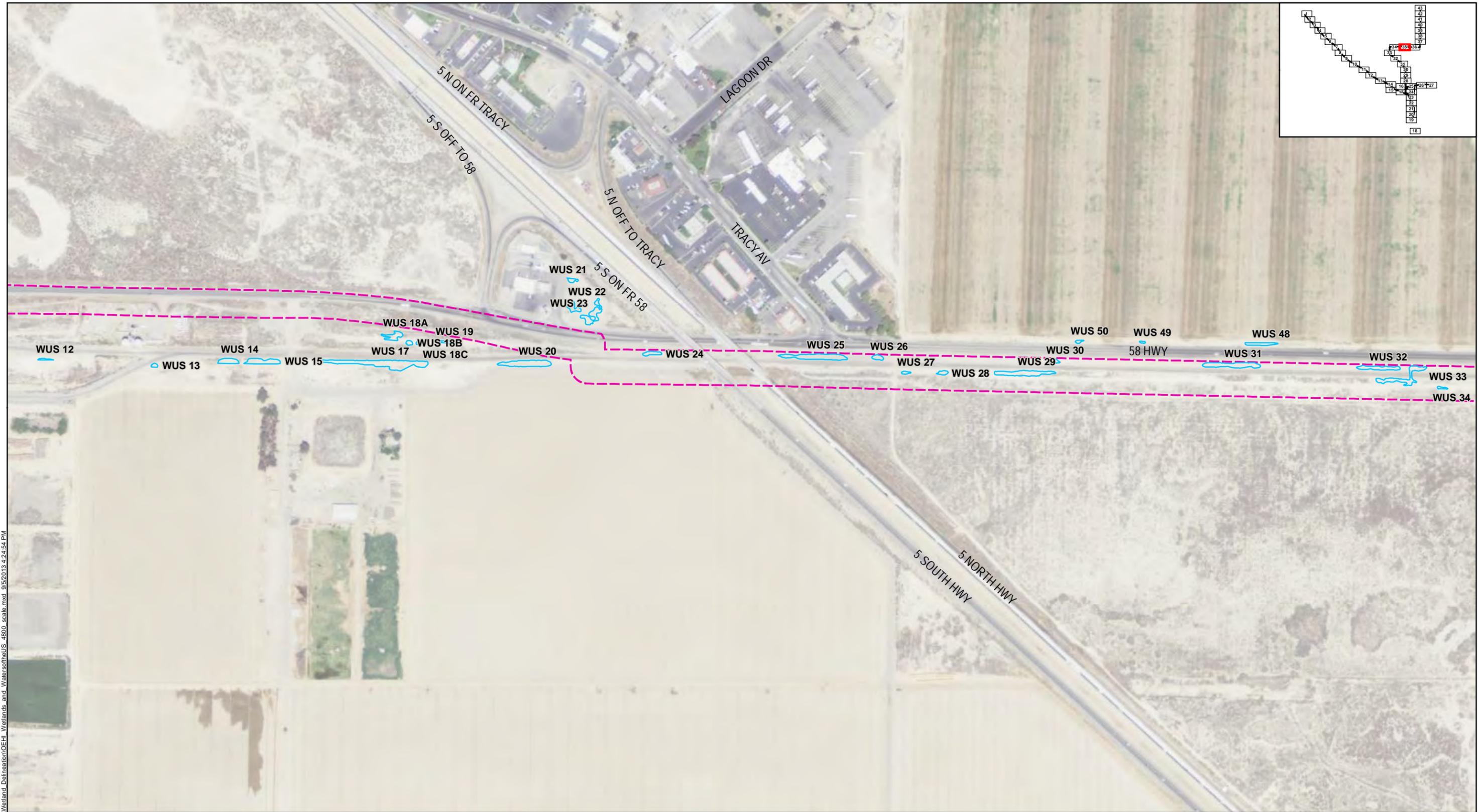
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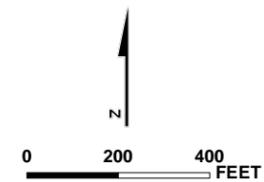


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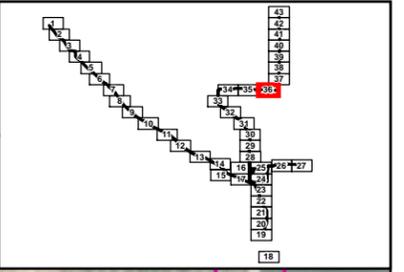
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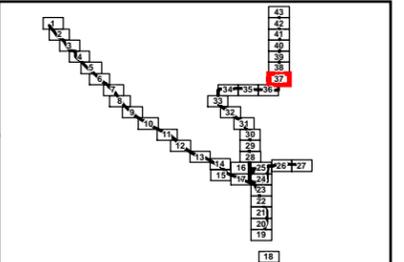
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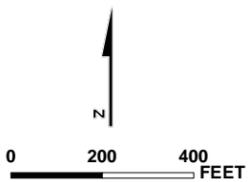


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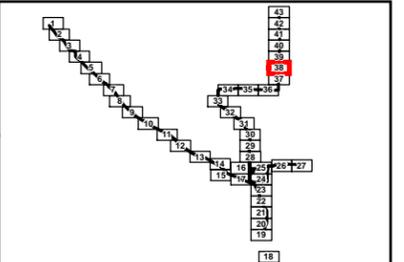
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Source: Aerial Imagery, USDA, NAIP, 2012.



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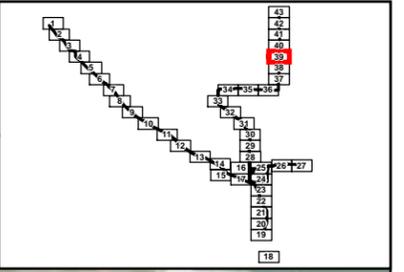
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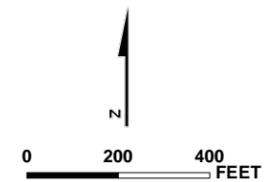


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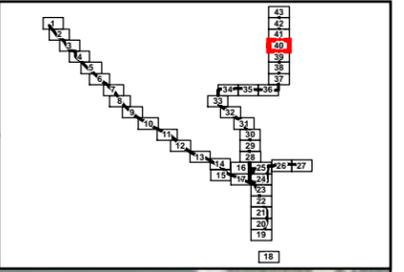
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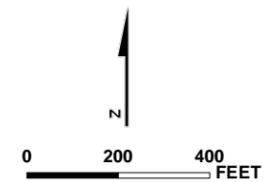
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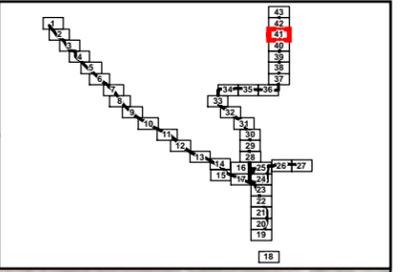
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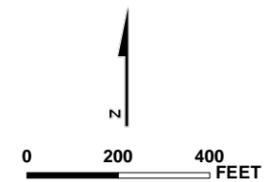
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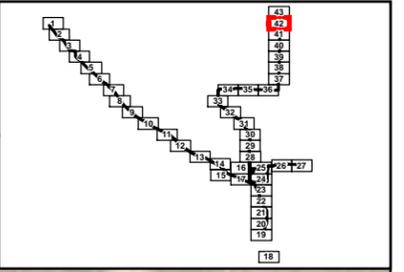
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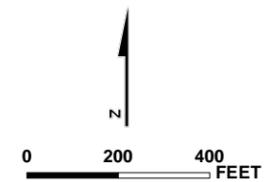
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Source: Aerial Imagery, USDA, NAIP, 2012.



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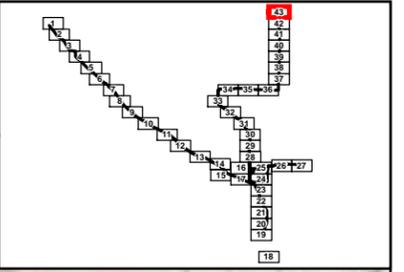
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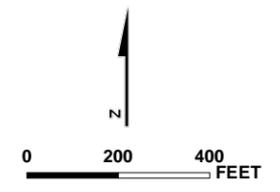


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