DOCKETED	
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Project Title:	Darden Clean Energy Project
TN #:	261664
Document Title:	Stormwater Report Appendices
Description:	Preliminary stormwater management report appendices. Although the pertinent information was included in Section 5.13 Water Resources of the original application materials, the CEC requested these documents be docketed.
Filer:	Becky Moores
Organization:	Intersect Power
Submitter Role:	Applicant
Submission Date:	2/7/2025 5:48:58 PM
Docketed Date:	2/10/2025

NOAA Atlas 14, Volume 6, Version 2
Location name: Helm, California, USA*
Latitude: 36.5146°, Longitude: -120.1727°
Elevation: 191.44 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.067** (0.060-0.077)	**0.085** (0.075-0.097)	**0.110** (0.096-0.126)	**0.131** (0.114-0.152)	**0.163** (0.137-0.197)	**0.190** (0.156-0.235)	**0.220** (0.175-0.279)	**0.252** (0.194-0.331)	**0.300** (0.221-0.413)	**0.341** (0.241-0.488)
10-min	**0.096** (0.085-0.110)	**0.122** (0.107-0.139)	**0.157** (0.138-0.180)	**0.188** (0.164-0.218)	**0.234** (0.196-0.282)	**0.273** (0.223-0.336)	**0.315** (0.250-0.400)	**0.361** (0.278-0.474)	**0.430** (0.316-0.592)	**0.489** (0.345-0.700)
15-min	**0.117** (0.103-0.133)	**0.147** (0.130-0.168)	**0.190** (0.167-0.218)	**0.228** (0.198-0.264)	**0.283** (0.237-0.341)	**0.330** (0.270-0.407)	**0.380** (0.303-0.483)	**0.437** (0.336-0.573)	**0.521** (0.382-0.716)	**0.592** (0.418-0.846)
30-min	**0.160** (0.141-0.183)	**0.201** (0.178-0.230)	**0.260** (0.229-0.299)	**0.312** (0.272-0.361)	**0.388** (0.325-0.467)	**0.451** (0.369-0.557)	**0.521** (0.414-0.661)	**0.598** (0.461-0.784)	**0.713** (0.523-0.980)	**0.810** (0.572-1.16)
60-min	**0.223** (0.197-0.255)	**0.281** (0.248-0.322)	**0.363** (0.320-0.417)	**0.435** (0.379-0.504)	**0.541** (0.454-0.652)	**0.630** (0.516-0.778)	**0.727** (0.579-0.924)	**0.835** (0.643-1.10)	**0.995** (0.731-1.37)	**1.13** (0.799-1.62)
2-hr	**0.326** (0.289-0.373)	**0.403** (0.356-0.461)	**0.513** (0.451-0.588)	**0.609** (0.531-0.706)	**0.751** (0.630-0.905)	**0.871** (0.713-1.08)	**1.00** (0.797-1.27)	**1.15** (0.884-1.51)	**1.36** (1.00-1.87)	**1.55** (1.09-2.21)
3-hr	**0.400** (0.353-0.457)	**0.493** (0.435-0.564)	**0.625** (0.550-0.717)	**0.741** (0.646-0.859)	**0.913** (0.765-1.10)	**1.06** (0.864-1.30)	**1.21** (0.965-1.54)	**1.39** (1.07-1.82)	**1.64** (1.21-2.26)	**1.86** (1.31-2.66)
6-hr	**0.542** (0.480-0.620)	**0.674** (0.595-0.771)	**0.858** (0.755-0.985)	**1.02** (0.888-1.18)	**1.25** (1.05-1.51)	**1.45** (1.18-1.78)	**1.65** (1.32-2.10)	**1.88** (1.45-2.47)	**2.22** (1.63-3.05)	**2.49** (1.76-3.56)
12-hr	**0.695** (0.614-0.794)	**0.893** (0.788-1.02)	**1.16** (1.02-1.34)	**1.39** (1.21-1.61)	**1.71** (1.44-2.06)	**1.97** (1.61-2.43)	**2.24** (1.78-2.84)	**2.53** (1.95-3.31)	**2.93** (2.15-4.03)	**3.26** (2.30-4.67)
24-hr	**0.873** (0.789-0.987)	**1.16** (1.05-1.31)	**1.55** (1.39-1.75)	**1.86** (1.66-2.13)	**2.30** (1.98-2.72)	**2.64** (2.22-3.19)	**2.99** (2.46-3.71)	**3.36** (2.68-4.29)	**3.87** (2.96-5.16)	**4.27** (3.15-5.91)
2-day	**1.06** (0.954-1.19)	**1.42** (1.28-1.60)	**1.89** (1.70-2.15)	**2.29** (2.04-2.62)	**2.83** (2.44-3.36)	**3.26** (2.75-3.95)	**3.70** (3.04-4.59)	**4.16** (3.32-5.32)	**4.79** (3.67-6.40)	**5.30** (3.91-7.33)
3-day	**1.18** (1.06-1.33)	**1.57** (1.42-1.78)	**2.11** (1.90-2.39)	**2.55** (2.28-2.92)	**3.17** (2.73-3.75)	**3.65** (3.07-4.42)	**4.15** (3.41-5.15)	**4.67** (3.73-5.97)	**5.40** (4.13-7.21)	**5.98** (4.41-8.27)
4-day	**1.27** (1.15-1.44)	**1.69** (1.53-1.92)	**2.27** (2.04-2.57)	**2.75** (2.45-3.14)	**3.41** (2.94-4.04)	**3.94** (3.32-4.77)	**4.49** (3.69-5.57)	**5.06** (4.04-6.47)	**5.87** (4.49-7.83)	**6.51** (4.80-9.01)
7-day	**1.49** (1.35-1.68)	**1.96** (1.76-2.21)	**2.60** (2.34-2.95)	**3.15** (2.81-3.60)	**3.92** (3.38-4.64)	**4.54** (3.82-5.49)	**5.18** (4.26-6.44)	**5.87** (4.69-7.51)	**6.85** (5.24-9.14)	**7.63** (5.63-10.6)
10-day	**1.60** (1.44-1.81)	**2.08** (1.88-2.35)	**2.75** (2.48-3.12)	**3.33** (2.97-3.81)	**4.15** (3.58-4.92)	**4.82** (4.06-5.83)	**5.52** (4.54-6.86)	**6.28** (5.01-8.03)	**7.35** (5.62-9.82)	**8.22** (6.07-11.4)
20-day	**1.93** (1.75-2.18)	**2.51** (2.27-2.84)	**3.33** (3.00-3.78)	**4.04** (3.61-4.63)	**5.07** (4.37-6.01)	**5.91** (4.98-7.16)	**6.80** (5.59-8.45)	**7.77** (6.20-9.93)	**9.14** (6.99-12.2)	**10.3** (7.57-14.2)
30-day	**2.27** (2.05-2.56)	**2.96** (2.67-3.35)	**3.94** (3.54-4.47)	**4.79** (4.27-5.48)	**6.02** (5.19-7.13)	**7.02** (5.92-8.50)	**8.08** (6.64-10.0)	**9.22** (7.36-11.8)	**10.8** (8.29-14.5)	**12.2** (8.97-16.8)
45-day	**2.75** (2.48-3.11)	**3.61** (3.26-4.09)	**4.82** (4.34-5.47)	**5.87** (5.23-6.72)	**7.38** (6.36-8.75)	**8.61** (7.26-10.4)	**9.91** (8.14-12.3)	**11.3** (9.01-14.4)	**13.2** (10.1-17.7)	**14.8** (10.9-20.5)
60-day	**3.20** (2.89-3.62)	**4.22** (3.81-4.77)	**5.64** (5.07-6.40)	**6.86** (6.12-7.85)	**8.61** (7.42-10.2)	**10.0** (8.45-12.1)	**11.5** (9.47-14.3)	**13.1** (10.5-16.8)	**15.3** (11.7-20.4)	**17.1** (12.6-23.6)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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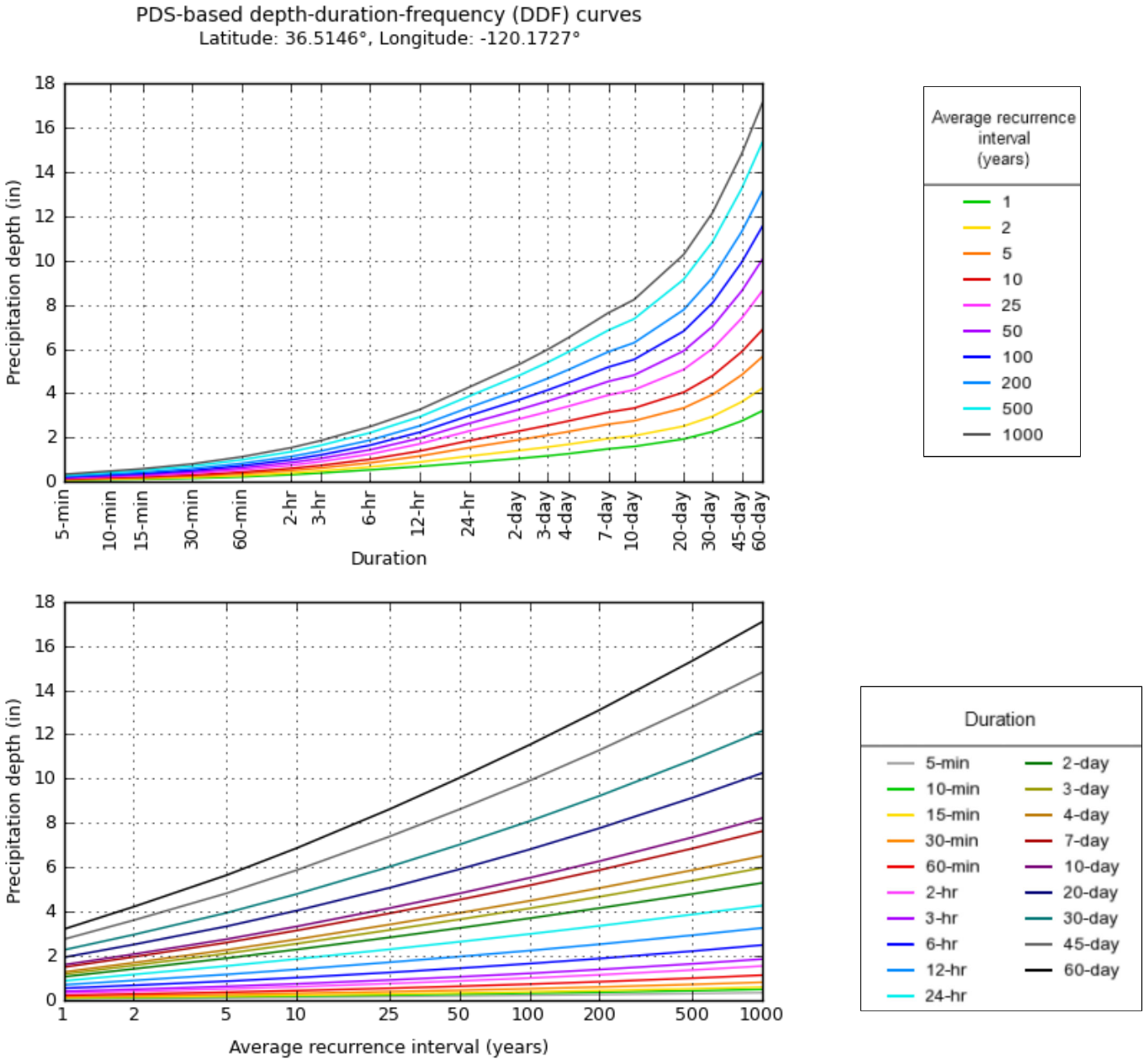
PF graphical



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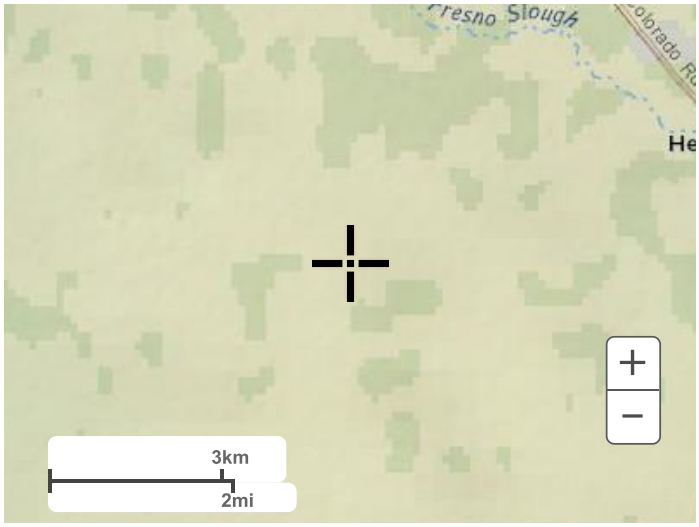
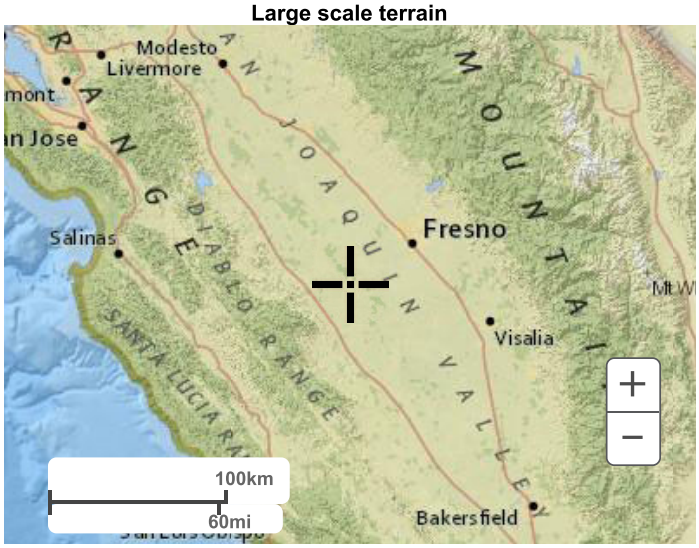
Maps & aerials

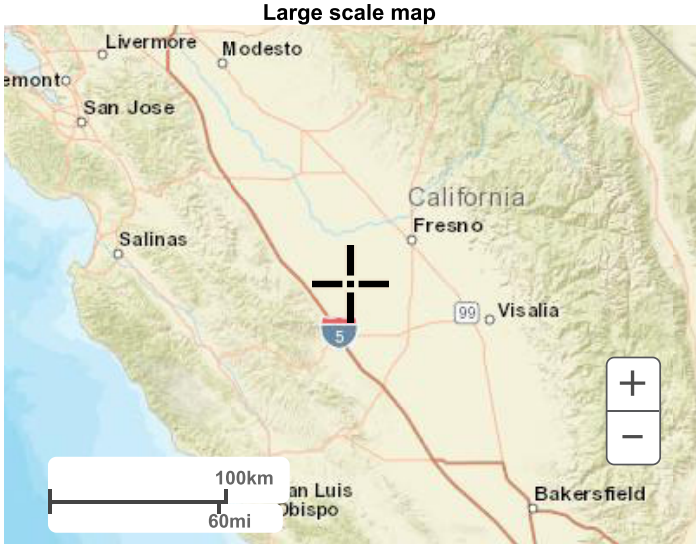
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial

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National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
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United States Department of Agriculture

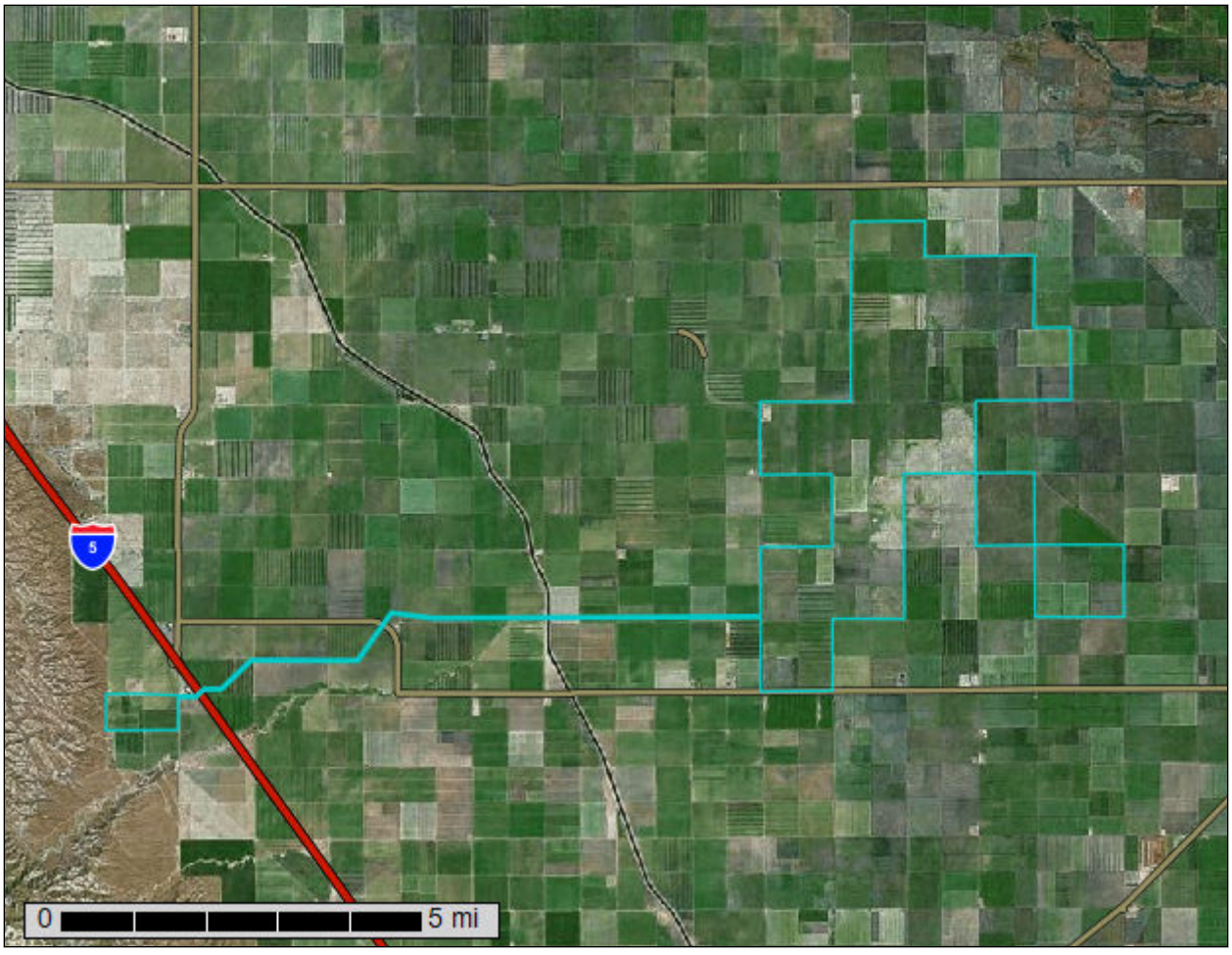
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Fresno County, California, Western Part

IP Darden Soil Report



October 12, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

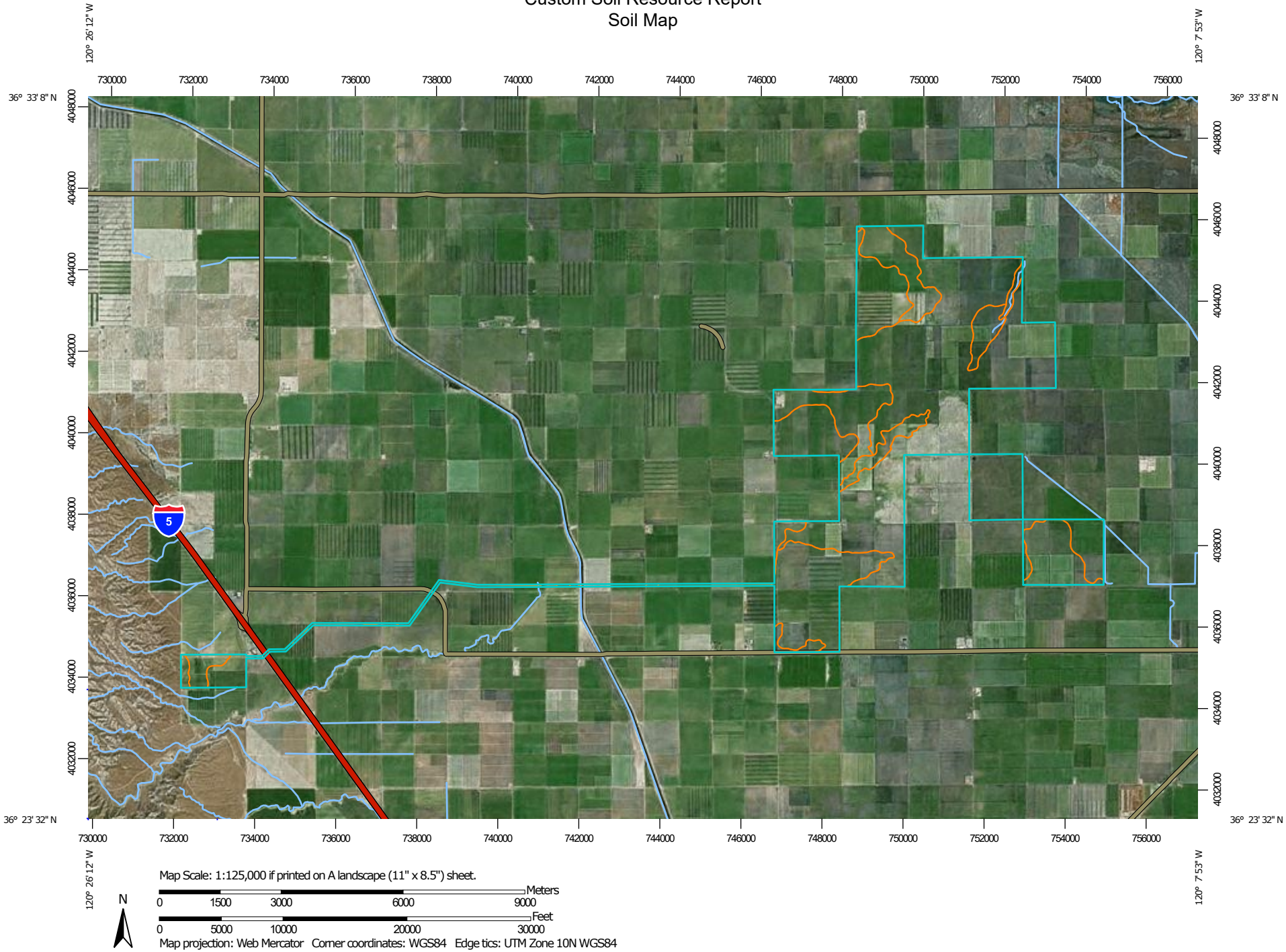
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Fresno County, California, Western Part
Survey Area Data: Version 18, Aug 31, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 16, 2022—Mar 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
285	Tranquillity-Tranquillity, wet, complex, saline-sodic, 0 to 1 percent slopes	48.1	0.5%
286	Tranquillity clay, saline-sodic, wet, 0 to 1 percent slopes	5,491.0	53.5%
405	Polvadero-Guijarral complex, 5 to 15 percent slopes	38.6	0.4%
436	Panoche loam, 0 to 2 percent slopes	191.2	1.9%
437	Panoche sandy loam, 0 to 2 percent slopes	126.5	1.2%
442	Panoche clay loam, 0 to 2 percent slopes	45.8	0.4%
459	Ciervo clay, 0 to 2 percent slopes	664.8	6.5%
461	Ciervo clay, saline-sodic, wet, 0 to 1 percent slopes	70.9	0.7%
462	Ciervo, wet-Ciervo complex, saline-sodic, 0 to 1 percent slopes	2,231.0	21.7%
475	Posochanet clay loam, saline-sodic, wet, 0 to 1 percent slopes	421.8	4.1%
478	Cerini sandy loam, 0 to 2 percent slopes, MLRA 17	6.4	0.1%
479	Cerini clay loam, 0 to 2 percent slopes	10.7	0.1%
482	Calflax clay loam, saline-sodic, wet, 0 to 1 percent slopes, MLRA 17	907.6	8.8%
960	Excelsior, sandy substratum-westhaven association, flooded, 0 to 2 percent slopes	5.9	0.1%
982	Water	0.9	0.0%
Totals for Area of Interest		**10,262.1**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named

according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Fresno County, California, Western Part

285—Tranquillity-Tranquillity, wet, complex, saline-sodic, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hnz4
Elevation: 130 to 360 feet
Mean annual precipitation: 7 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 220 to 250 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Tranquillity, clay, saline-sodic, and similar soils: 60 percent
Tranquillity, clay, saline-sodic, wet, and similar soils: 25 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tranquillity, Clay, Saline-sodic

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 22 inches: clay
Bkss - 22 to 53 inches: clay
Bk - 53 to 71 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Very rareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 3 percent
Maximum salinity: Slightly saline to moderately saline (4.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 20.0
Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: C
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert

Hydric soil rating: No

Description of Tranquillity, Clay, Saline-sodic, Wet

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap1 - 0 to 6 inches: clay
Ap2 - 6 to 16 inches: clay
Bknssyz1 - 16 to 31 inches: clay
Bknssyz2 - 31 to 48 inches: clay
Bknyz - 48 to 65 inches: silty clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: Very rareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 8 percent
Maximum salinity: Moderately saline (8.0 to 15.0 mmhos/cm)
Sodium adsorption ratio, maximum: 50.0
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: D
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert
Hydric soil rating: No

Minor Components

Ciervo, clay, saline-sodic, wet

Percent of map unit: 5 percent
Landform: Fan skirts
Hydric soil rating: No

Armona, loam, partially drained

Percent of map unit: 4 percent
Landform: Flood plains on basin floors
Hydric soil rating: Yes

Calflax, clay loam, saline-sodic, wet

Percent of map unit: 2 percent
Landform: Fan skirts
Hydric soil rating: No

Tachi, clay

Percent of map unit: 2 percent
Landform: Flood plains on basin floors
Hydric soil rating: Yes

Deldota, clay, partially drained

Percent of map unit: 2 percent
Landform: Fan skirts
Hydric soil rating: No

286—Tranquillity clay, saline-sodic, wet, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hnz5
Elevation: 160 to 260 feet
Mean annual precipitation: 7 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 220 to 250 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Tranquillity, clay, saline-sodic, wet, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tranquillity, Clay, Saline-sodic, Wet

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap1 - 0 to 6 inches: clay
Ap2 - 6 to 16 inches: clay
Bknssyz1 - 16 to 31 inches: clay
Bknssyz2 - 31 to 48 inches: clay
Bknyz - 48 to 65 inches: silty clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: About 48 to 60 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 8 percent
Maximum salinity: Moderately saline (8.0 to 15.0 mmhos/cm)
Sodium adsorption ratio, maximum: 50.0
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: D
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert
Hydric soil rating: No

Minor Components

Ciervo, clay, saline-sodic, wet

Percent of map unit: 4 percent
Landform: Fan skirts
Hydric soil rating: No

Tranquillity, clay, saline-sodic

Percent of map unit: 3 percent
Landform: Fan skirts
Hydric soil rating: No

Gepford, clay

Percent of map unit: 2 percent
Landform: Flood plains on basin floors
Hydric soil rating: Yes

Calflax, clay loam, saline-sodic, wet

Percent of map unit: 2 percent
Landform: Fan skirts
Hydric soil rating: No

Tachi, clay

Percent of map unit: 2 percent
Landform: Flood plains on basin floors
Hydric soil rating: Yes

Armona, loam, partially drained

Percent of map unit: 1 percent
Landform: Flood plains on basin floors
Hydric soil rating: Yes

Lethent, silt loam

Percent of map unit: 1 percent
Landform: Fan remnants
Hydric soil rating: No

405—Polvadero-Guijarral complex, 5 to 15 percent slopes

Map Unit Setting

National map unit symbol: hnzc
Elevation: 480 to 1,000 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 63 to 65 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Polvadero, sandy loam, and similar soils: 55 percent
Guijarral, sandy loam, and similar soils: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Polvadero, Sandy Loam

Setting

Landform: Fan remnants
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

A1 - 0 to 7 inches: sandy loam
A2 - 7 to 12 inches: sandy loam
Btkn1 - 12 to 30 inches: sandy clay loam
Btkn2 - 30 to 52 inches: sandy clay loam
C - 52 to 60 inches: sandy loam

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: 10 to 20 inches to natric
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to very slightly saline (1.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 50.0
Available water supply, 0 to 60 inches: Very low (about 1.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: C
Ecological site: R017XG043CA - Loamy 6-8" P.Z.
Hydric soil rating: No

Description of Guijarral, Sandy Loam

Setting

Landform: Fan remnants
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap1 - 0 to 3 inches: sandy loam
Ap2 - 3 to 6 inches: sandy loam
Bw - 6 to 12 inches: sandy loam
Bk1 - 12 to 24 inches: gravelly sandy loam
Bk2 - 24 to 36 inches: gravelly sandy loam
Bk3 - 36 to 60 inches: gravelly loamy sand

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R017XG043CA - Loamy 6-8" P.Z.
Hydric soil rating: No

Minor Components

Polvadero, sandy loam, hilly

Percent of map unit: 8 percent
Landform: Fan remnants
Hydric soil rating: No

Cyvar, loam

Percent of map unit: 3 percent

Landform: Fan remnants
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

Guijarral, sandy loam, gently sloping
Percent of map unit: 3 percent
Landform: Fan remnants
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

Yribarren, clay loam
Percent of map unit: 1 percent
Landform: Alluvial fans
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

436—Panoche loam, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: 2ycb2
Elevation: 260 to 850 feet
Mean annual precipitation: 7 to 9 inches
Mean annual air temperature: 63 to 65 degrees F
Frost-free period: 311 to 335 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition
Panoche and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Panoche

Setting
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sedimentary rock

Typical profile
Ap - 0 to 7 inches: loam
Bw - 7 to 24 inches: loam
Bk - 24 to 60 inches: loam

Properties and qualities
Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: R017XY905CA - Dry Alluvial Fans and Terraces
Hydric soil rating: No

Minor Components

Kimberlina

Percent of map unit: 5 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Cerini

Percent of map unit: 3 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Calflax

Percent of map unit: 2 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Twisselman

Percent of map unit: 2 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Excelsior

Percent of map unit: 2 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear

Hydric soil rating: No

Kettleman

Percent of map unit: 1 percent
Landform: Hills, alluvial fans
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Concave, linear
Across-slope shape: Convex, linear
Hydric soil rating: No

437—Panoche sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hnzp
Elevation: 300 to 850 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 250 to 280 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Panoche, sandy loam, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Panoche, Sandy Loam

Setting

Landform: Alluvial fans
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 7 inches: sandy loam
Bw - 7 to 16 inches: loam
Bk1 - 16 to 27 inches: loam
Bk2 - 27 to 43 inches: loam
Bk3 - 43 to 57 inches: loam
Bk4 - 57 to 72 inches: sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: Very rareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 4 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 8.0
Available water supply, 0 to 60 inches: High (about 9.0 inches)

Interpretive groups
Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: B
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert
Hydric soil rating: No

Minor Components

Kimberlina, sandy loam
Percent of map unit: 4 percent
Landform: Alluvial fans
Ecological site: R017XY904CA - Subirrigated Deep Alluvial Fans
Hydric soil rating: No

Cerini, clay loam
Percent of map unit: 4 percent
Landform: Alluvial fans
Ecological site: R017XY904CA - Subirrigated Deep Alluvial Fans
Hydric soil rating: No

Westhaven, loam
Percent of map unit: 4 percent
Landform: Alluvial fans
Ecological site: R017XY904CA - Subirrigated Deep Alluvial Fans
Hydric soil rating: No

Excelsior, sandy loam
Percent of map unit: 3 percent
Landform: Alluvial fans
Ecological site: R017XY904CA - Subirrigated Deep Alluvial Fans
Hydric soil rating: No

442—Panoche clay loam, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: 2ycb1
Elevation: 270 to 890 feet
Mean annual precipitation: 6 to 9 inches
Mean annual air temperature: 62 to 65 degrees F
Frost-free period: 305 to 326 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Panoche, clay loam, and similar soils: 87 percent
Minor components: 13 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Panoche, Clay Loam

Setting

Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 7 inches: clay loam
Bw - 7 to 16 inches: loam
Bk1 - 16 to 27 inches: loam
Bk2 - 27 to 43 inches: loam
Bk3 - 43 to 57 inches: loam
Bk4 - 57 to 72 inches: sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 4 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 8.0
Available water supply, 0 to 60 inches: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: R017XY905CA - Dry Alluvial Fans and Terraces
Hydric soil rating: No

Minor Components

Calflax

Percent of map unit: 4 percent
Landform: Fan skirts
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Cerini

Percent of map unit: 3 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Posochanet

Percent of map unit: 2 percent
Landform: Fan skirts
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Ciervo

Percent of map unit: 2 percent
Landform: Fan skirts
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Kimberlina

Percent of map unit: 1 percent
Landform: Alluvial fans
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Wasco

Percent of map unit: 1 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

459—Ciervo clay, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hp02
Elevation: 210 to 730 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 240 to 280 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Ciervo, clay, and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ciervo, Clay

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 17 inches: clay
Bw - 17 to 27 inches: clay
Bknyz - 27 to 41 inches: silty clay
Bknz - 41 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert
Hydric soil rating: No

Minor Components

Ciervo, clay loam

Percent of map unit: 5 percent
Landform: Fan skirts
Hydric soil rating: No

Ciervo, clay, saline-sodic

Percent of map unit: 4 percent
Landform: Fan skirts
Hydric soil rating: No

Ciervo, clay, saline-sodic, wet

Percent of map unit: 4 percent

Landform: Fan skirts
Hydric soil rating: No

Tranquillity, clay, saline-sodic
Percent of map unit: 3 percent
Landform: Fan skirts
Hydric soil rating: No

Cerini, clay loam
Percent of map unit: 2 percent
Landform: Alluvial fans
Hydric soil rating: No

Panoche, clay loam
Percent of map unit: 1 percent
Landform: Alluvial fans
Hydric soil rating: No

Westhaven, loam
Percent of map unit: 1 percent
Landform: Alluvial fans
Hydric soil rating: No

461—Ciervo clay, saline-sodic, wet, 0 to 1 percent slopes

Map Unit Setting
National map unit symbol: hp03
Elevation: 170 to 330 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 240 to 270 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Ciervo, clay, saline-sodic, wet, and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ciervo, Clay, Saline-sodic, Wet

Setting
Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile
Ap - 0 to 17 inches: clay
Bw - 17 to 27 inches: clay
Bknyz - 27 to 41 inches: silty clay

Bknz - 41 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: NoneRare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 50.0
Available water supply, 0 to 60 inches: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R017XY901CA - Clayey Basin Group
Hydric soil rating: No

Minor Components

Ciervo, clay, saline-sodic

Percent of map unit: 6 percent
Landform: Fan skirts
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

Ciervo, clay loam, saline-sodic, wet

Percent of map unit: 5 percent
Landform: Fan skirts
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

Tranquillity, clay, saline-sodic, wet

Percent of map unit: 5 percent
Landform: Fan skirts
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

Calflax, clay loam, saline-sodic, wet

Percent of map unit: 4 percent
Landform: Fan skirts
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

462—Ciervo, wet-Ciervo complex, saline-sodic, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hp04
Elevation: 170 to 580 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 240 to 270 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Ciervo, clay, saline-sodic, wet, and similar soils: 50 percent
Ciervo, clay, saline-sodic, and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ciervo, Clay, Saline-sodic, Wet

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 17 inches: clay
Bw - 17 to 27 inches: clay
Bknyz - 27 to 41 inches: silty clay
Bknz - 41 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 50.0
Available water supply, 0 to 60 inches: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R017XY901CA - Clayey Basin Group
Hydric soil rating: No

Description of Ciervo, Clay, Saline-sodic

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 17 inches: clay
Bw - 17 to 27 inches: clay
Bknyz - 27 to 41 inches: silty clay
Bknz - 41 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 40.0
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R017XY901CA - Clayey Basin Group
Hydric soil rating: No

Minor Components

Ciervo, clay loam, saline-sodic, wet

Percent of map unit: 5 percent
Landform: Fan skirts
Hydric soil rating: No

Panoche, clay loam

Percent of map unit: 3 percent
Landform: Alluvial fans
Hydric soil rating: No

Tranquillity, clay, saline-sodic

Percent of map unit: 3 percent

Landform: Fan skirts
Hydric soil rating: No

Ciervo, clay

Percent of map unit: 3 percent
Landform: Fan skirts
Hydric soil rating: No

Cerini, clay loam

Percent of map unit: 3 percent
Landform: Fan skirts
Hydric soil rating: No

Calflax, clay loam, saline-sodic, wet

Percent of map unit: 3 percent
Landform: Fan skirts
Hydric soil rating: No

475—Posochanet clay loam, saline-sodic, wet, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: hp0b
Elevation: 160 to 270 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 62 to 63 degrees F
Frost-free period: 230 to 250 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Posochanet, clay loam, saline-sodic, wet, and similar soils: 88 percent
Minor components: 12 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Posochanet, Clay Loam, Saline-sodic, Wet

Setting

Landform: Fan skirts
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap1 - 0 to 7 inches: clay loam
Ap2 - 7 to 15 inches: clay loam
Bw - 15 to 24 inches: stratified loam to silty clay loam
Bknz - 24 to 60 inches: stratified loam to silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: NoneRare
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Slightly saline to strongly saline (4.0 to 20.0 mmhos/cm)
Sodium adsorption ratio, maximum: 50.0
Available water supply, 0 to 60 inches: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert
Hydric soil rating: No

Minor Components

Calflax, clay loam, saline-sodic, wet

Percent of map unit: 4 percent
Landform: Fan skirts
Hydric soil rating: No

Lethent, clay loam

Percent of map unit: 3 percent
Landform: Fan remnants
Hydric soil rating: No

Tranquillity, clay, saline-sodic, wet

Percent of map unit: 3 percent
Landform: Fan skirts
Hydric soil rating: No

Ciervo, clay, saline-sodic

Percent of map unit: 2 percent
Landform: Fan skirts
Hydric soil rating: No

478—Cerini sandy loam, 0 to 2 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2vnd5
Elevation: 210 to 930 feet
Mean annual precipitation: 6 to 11 inches
Mean annual air temperature: 62 to 66 degrees F
Frost-free period: 240 to 300 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Cerini and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cerini

Setting

Landform: Alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 5 inches: sandy loam
Bw - 5 to 25 inches: clay loam
Bk1 - 25 to 35 inches: stratified sandy loam to clay loam
Bk2 - 35 to 79 inches: stratified sandy loam to clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 4 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 8.0
Available water supply, 0 to 60 inches: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: R017XY904CA - Subirrigated Deep Alluvial Fans
Hydric soil rating: No

Minor Components

Westhaven, loam

Percent of map unit: 3 percent
Landform: Alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Excelsior, sandy loam

Percent of map unit: 3 percent
Landform: Alluvial fans
Down-slope shape: Linear

Across-slope shape: Linear
Hydric soil rating: No

Kimberlina, sandy loam
Percent of map unit: 2 percent
Landform: Alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Granoso
Percent of map unit: 1 percent
Landform: Alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Ciervo, clay
Percent of map unit: 1 percent
Landform: Alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

479—Cerini clay loam, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: hp0g
Elevation: 160 to 800 feet
Mean annual precipitation: 6 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 230 to 290 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition
Cerini, clay loam, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cerini, Clay Loam

Setting
Landform: Alluvial fans
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile
Ap - 0 to 5 inches: clay loam

Bw - 5 to 25 inches: clay loam
Bk1 - 25 to 35 inches: stratified sandy loam to clay loam
Bk2 - 35 to 62 inches: stratified sandy loam to clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneVery rare
Frequency of ponding: None
Calcium carbonate, maximum content: 4 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 8.0
Available water supply, 0 to 60 inches: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): 1
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: R017XY906CA - Non-Alkali San Joaquin Valley Desert
Hydric soil rating: No

Minor Components

Ciervo, clay

Percent of map unit: 4 percent
Landform: Fan skirts
Hydric soil rating: No

Panoche, clay loam

Percent of map unit: 3 percent
Landform: Alluvial fans
Hydric soil rating: No

Excelsior, sandy loam

Percent of map unit: 2 percent
Landform: Alluvial fans
Hydric soil rating: No

Kimberlina, sandy loam

Percent of map unit: 2 percent
Landform: Alluvial fans
Hydric soil rating: No

Westhaven, loam

Percent of map unit: 2 percent
Landform: Alluvial fans
Hydric soil rating: No

Cerini, sandy loam

Percent of map unit: 2 percent
Landform: Alluvial fans
Hydric soil rating: No

482—Calflax clay loam, saline-sodic, wet, 0 to 1 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2vncl
Elevation: 160 to 340 feet
Mean annual precipitation: 7 to 9 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 230 to 250 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Calflax, clay loam, saline-sodic, wet, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Calflax, Clay Loam, Saline-sodic, Wet

Setting

Landform: Fan skirts
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 8 inches: clay loam
Bw - 8 to 26 inches: clay loam
Bny - 26 to 33 inches: loam
Bnyz1 - 33 to 47 inches: silt loam
Bnyz2 - 47 to 65 inches: loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 48 to 60 inches
Frequency of flooding: NoneRare
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 40.0
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: R017XY907CA - Aridic Alkali Desert
Hydric soil rating: No

Minor Components

Ciervo, clay, saline-sodic, wet
Percent of map unit: 6 percent
Landform: Fan skirts
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Cerini, clay loam
Percent of map unit: 2 percent
Landform: Alluvial fans
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Lethent, clay loam
Percent of map unit: 2 percent
Landform: Basin floors
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Posochanet, clay loam, saline-sodic, wet
Percent of map unit: 2 percent
Landform: Fan skirts
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Garces, silt loam
Percent of map unit: 1 percent
Landform: Rims on basin floors
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Twisselman, clay, saline-sodic
Percent of map unit: 1 percent
Landform: Rims
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Kimberlina, fine sandy loam
Percent of map unit: 1 percent
Landform: Alluvial fans

Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

960—Excelsior, sandy substratum-westhaven association, flooded, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hp2l
Elevation: 310 to 850 feet
Mean annual precipitation: 7 to 8 inches
Mean annual air temperature: 62 to 64 degrees F
Frost-free period: 240 to 280 days
Farmland classification: Not prime farmland

Map Unit Composition

Excelsior, sandy loam, sandy substratum, and similar soils: 50 percent
Westhaven, loam, and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Excelsior, Sandy Loam, Sandy Substratum

Setting

Landform: Alluvial fans, flood plains
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Tread
Microfeatures of landform position: Bars and channels
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

A1 - 0 to 7 inches: sandy loam
A2 - 7 to 23 inches: sandy loam
C1 - 23 to 53 inches: stratified loamy sand to silt loam
C2 - 53 to 72 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneOccasional
Frequency of ponding: Occasional
Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water supply, 0 to 60 inches: Moderate (about 6.8 inches)

Interpretive groups

Land capability classification (irrigated): 2w
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: B
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: No

Description of Westhaven, Loam

Setting

Landform: Alluvial fans, flood plains
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Tread
Microfeatures of landform position: Bars and channels
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from calcareous sedimentary rock

Typical profile

Ap - 0 to 7 inches: loam
Bw - 7 to 17 inches: loam
Bk1 - 17 to 42 inches: stratified loam to silty clay loam
Bk2 - 42 to 65 inches: stratified loamy sand to silty clay loam
C - 65 to 72 inches: stratified loam to silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneOccasional
Frequency of ponding: Occasional
Calcium carbonate, maximum content: 4 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): 2w
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: C
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: No

Minor Components

Ciervo, clay

Percent of map unit: 10 percent

Landform: Fan skirts
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: No

Excelsior, sandy loam

Percent of map unit: 5 percent
Landform: Alluvial fans, flood plains
Microfeatures of landform position: Bars and channels
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: No

Cerini, clay loam

Percent of map unit: 3 percent
Landform: Alluvial fans
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: No

Anela, very gravelly sandy loam

Percent of map unit: 2 percent
Landform: Flood plains
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: No

982—Water

Map Unit Composition

Water: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

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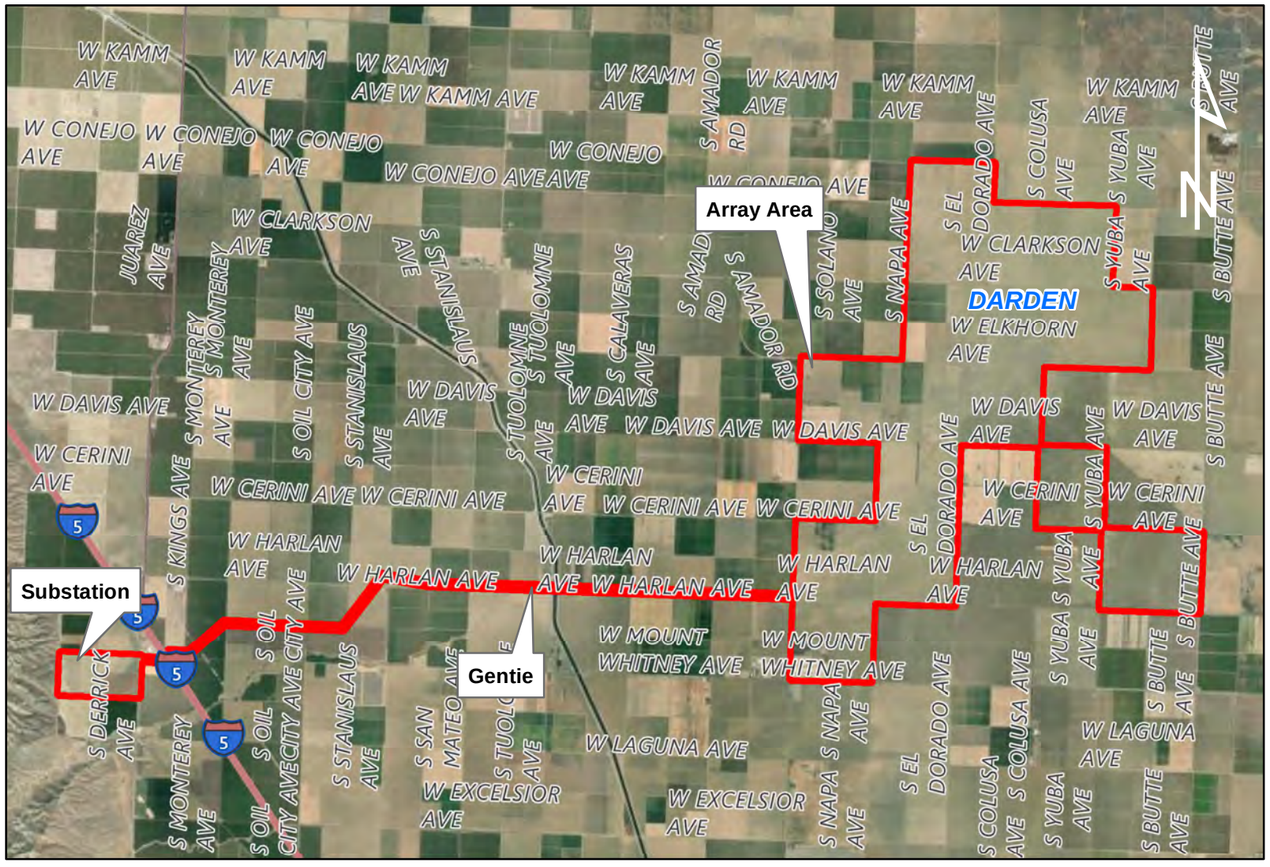
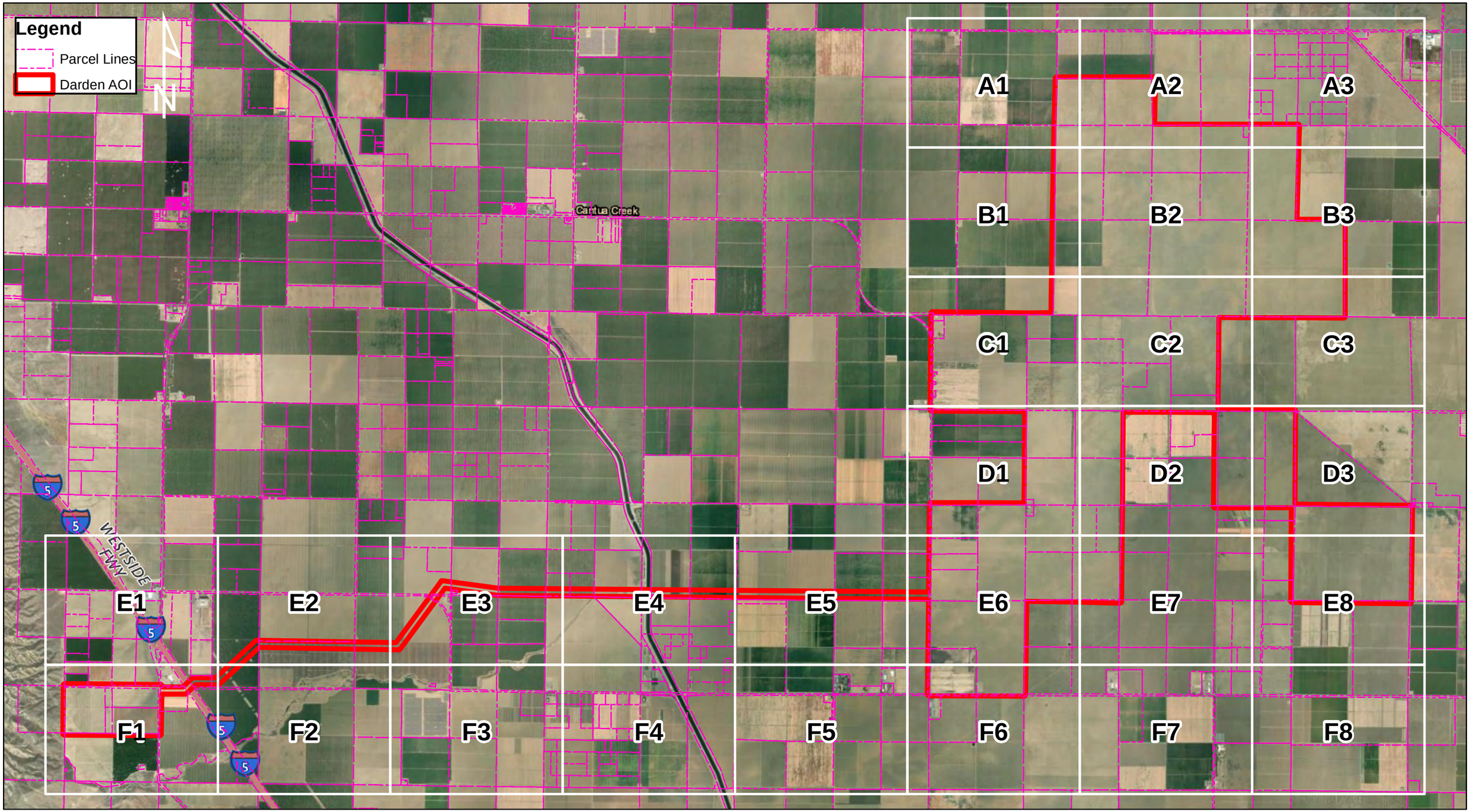
Intersect Power

STUDY AREA: IP DARDEN
LOCATION: FRESNO COUNTY, CA
TOTAL ACREAGE: 10,261
CLASSIFICATION: 100YR-24HR FLOOD (MAX DEPTH)
COORDINATE SYSTEM: NAD 83 STATE PLANE - CA ZN04
DATE PRODUCED: OCTOBER 2023



Intersect Power	**UPPER DRY SUB-BASIN DARDEN STUDY AREA FRESNO COUNTY, CA**	***THIS DOCUMENT CONTAINS PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT WRITTEN PRIOR APPROVAL OF INTERSECT POWER, INC.***	**TITLE SHEET DARDEN STUDY AREA MAX FLOOD DEPTH CLASSIFICATION** Map Produced: 10/10/2023	SCALE: 1 in = 10,000 ft COUNTY: FRESNO STATE: CALIFORNIA	BY: WRMA GRID INDEX NO.: PAGE: 1 OF 30



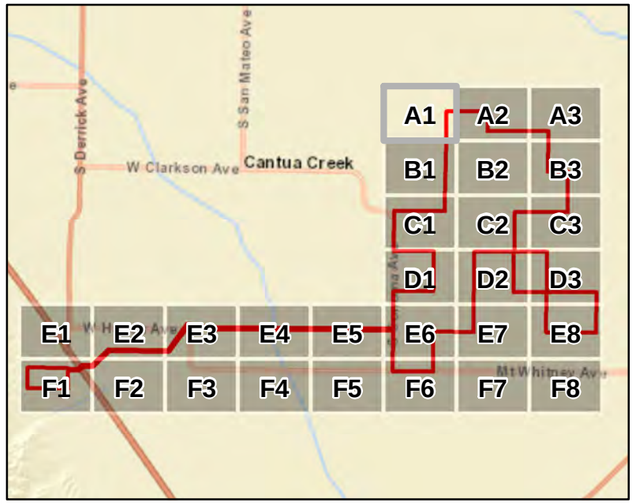
Intersect Power

TITLE SHEET
DARDEN STUDY AREA
FRESNO COUNTY, CA

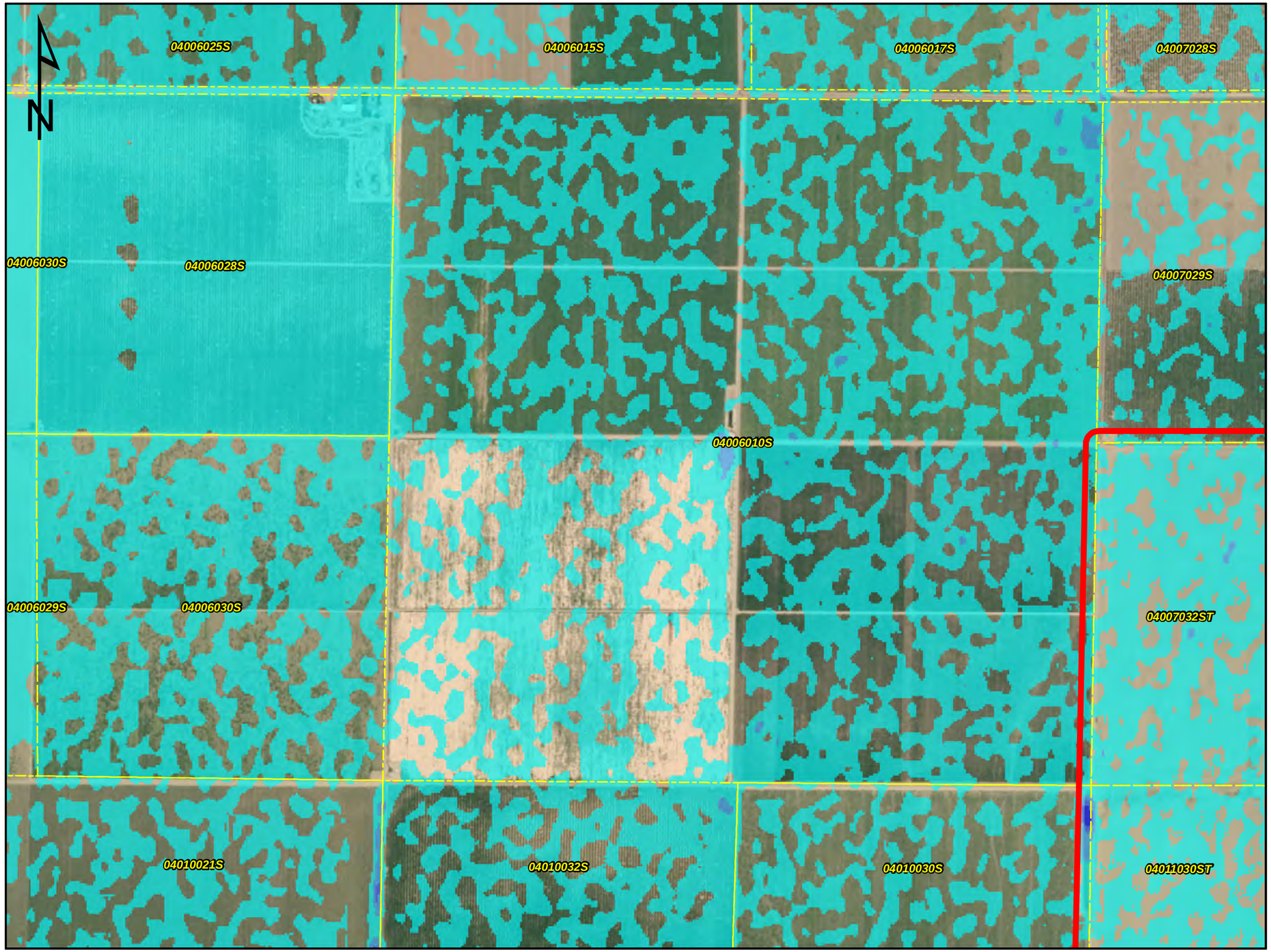
DARDEN STUDY AREA
GRID INDEX

Map Produced: 10/10/2023

SCALE: 1 in = 5,000 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.:
STATE: CALIFORNIA	PAGE: 2 OF 30



GRID INDEX



Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

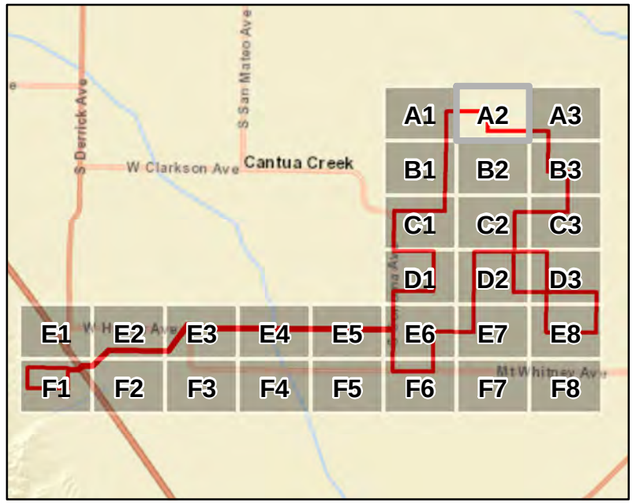
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: A1
STATE: CALIFORNIA	PAGE: 3 OF 30



GRID INDEX

Legend

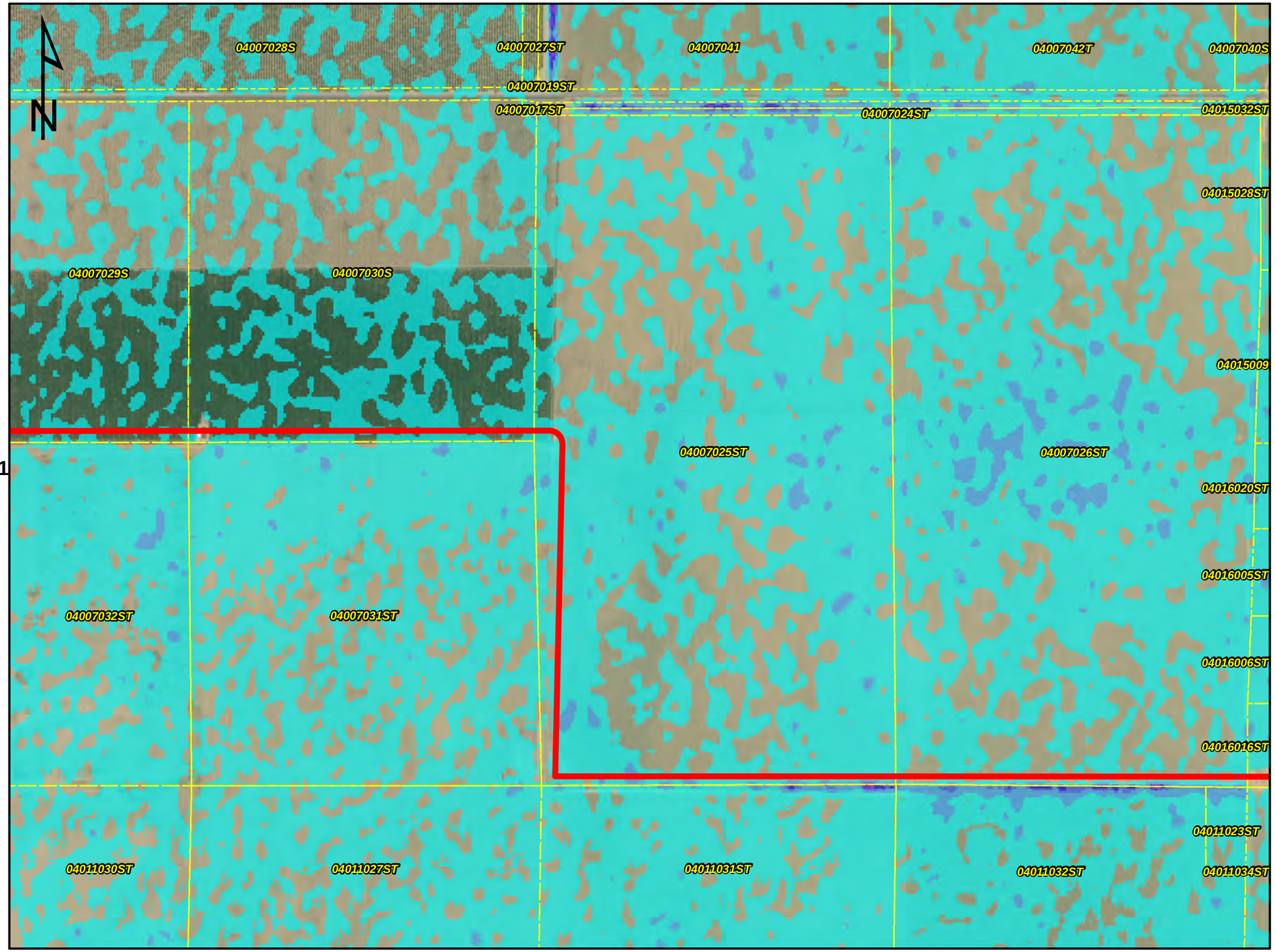
- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet



Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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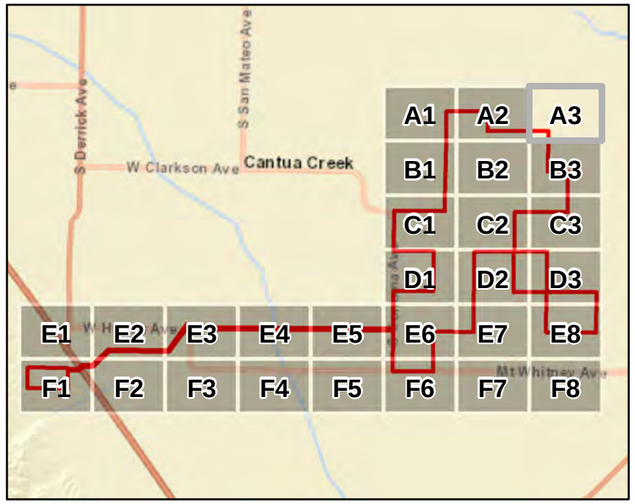

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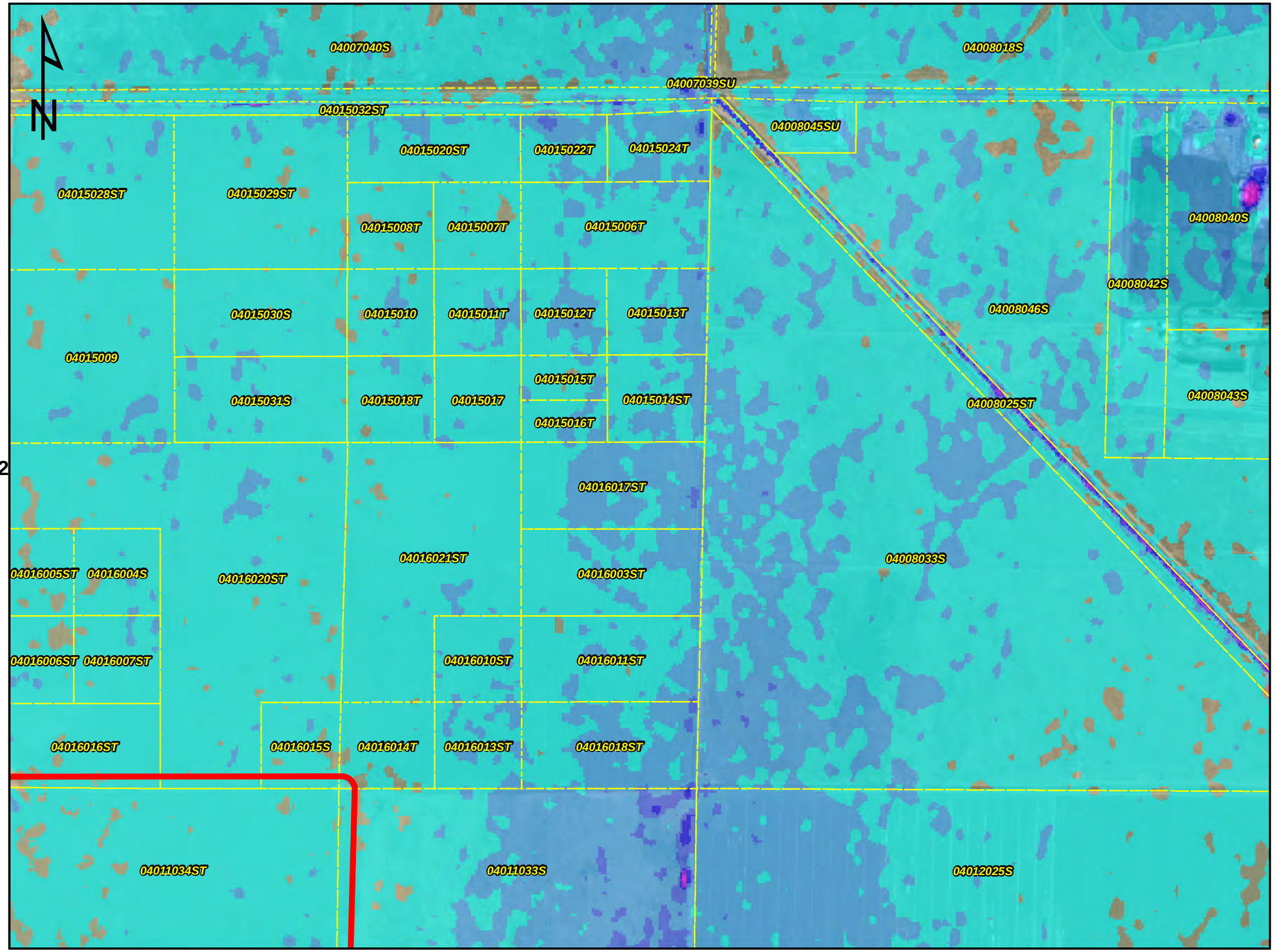

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: A3
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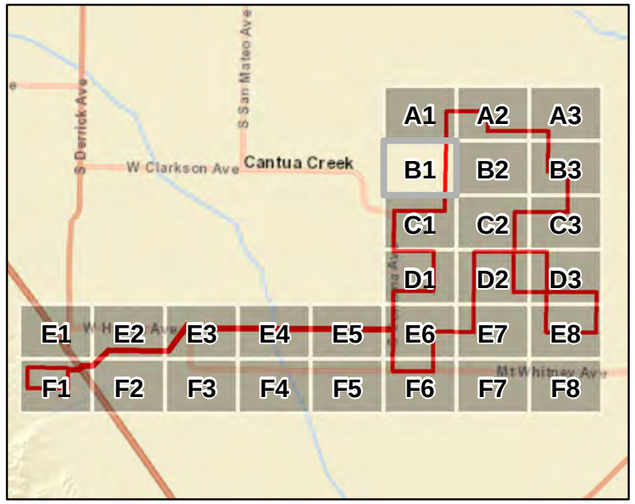

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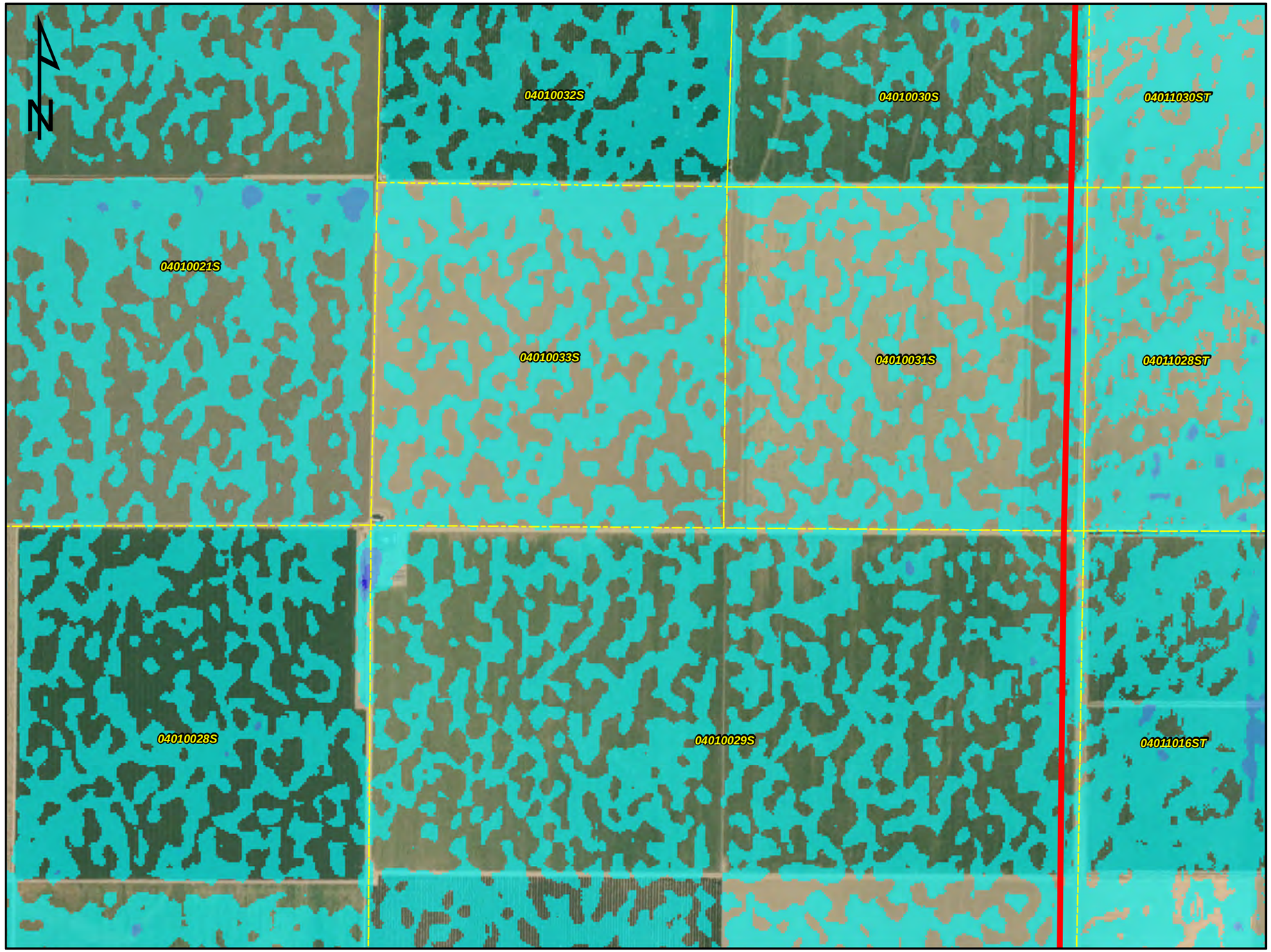

B2

C1

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
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UPPER DRY SUB-BASIN
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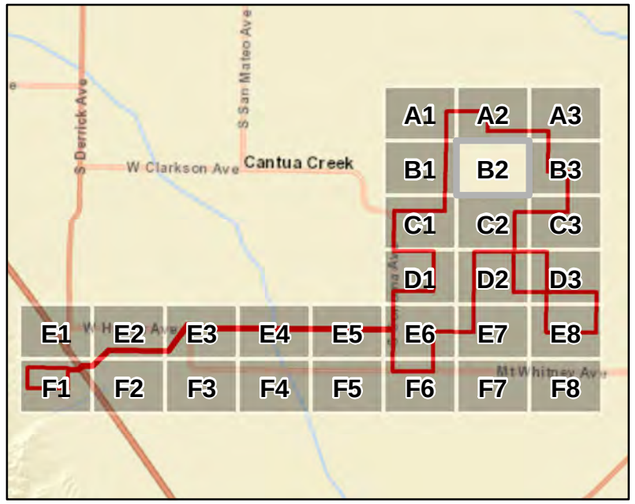

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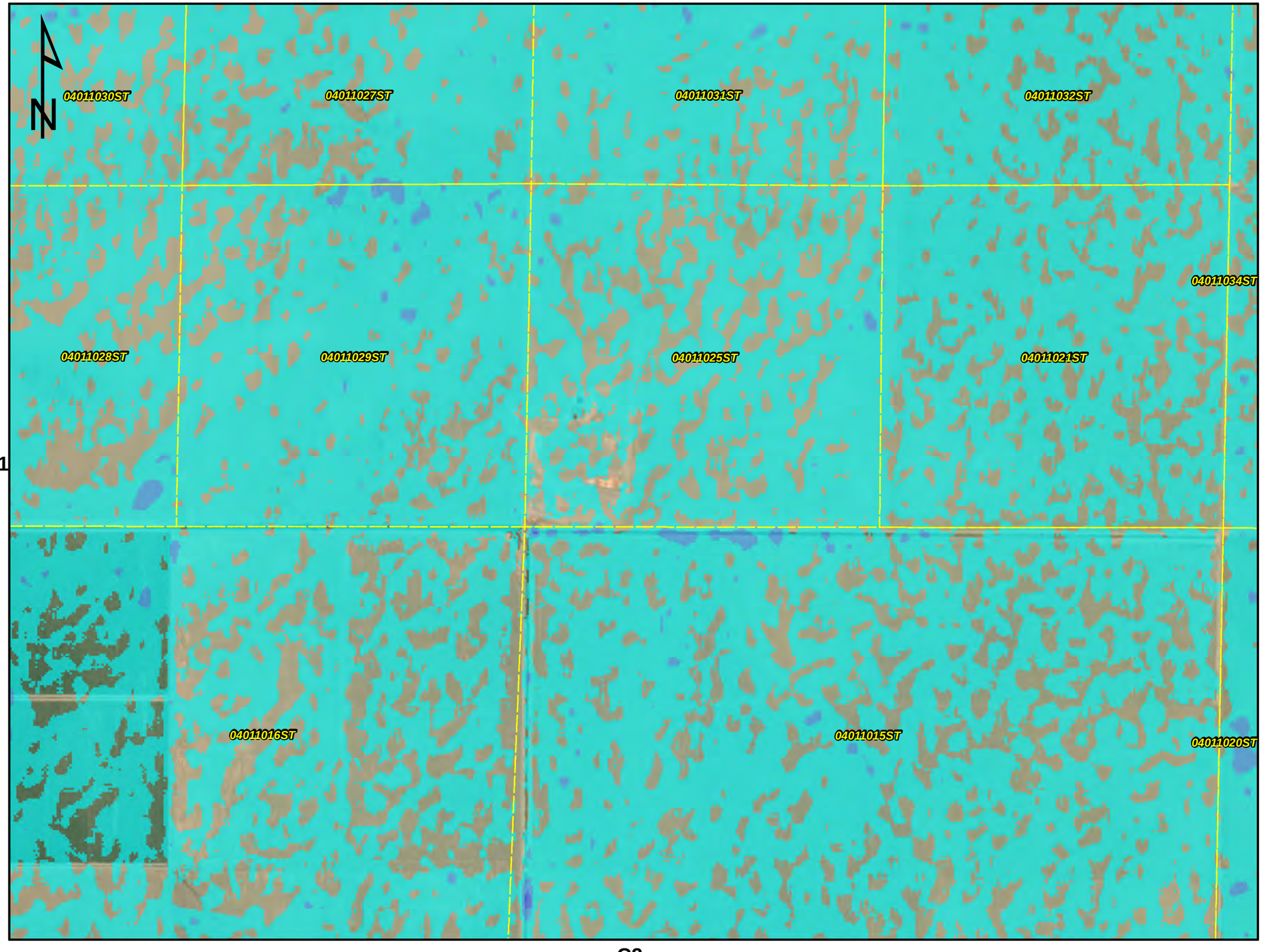

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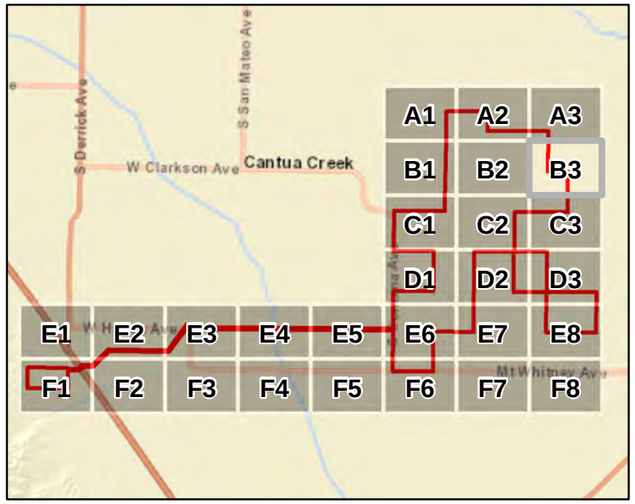

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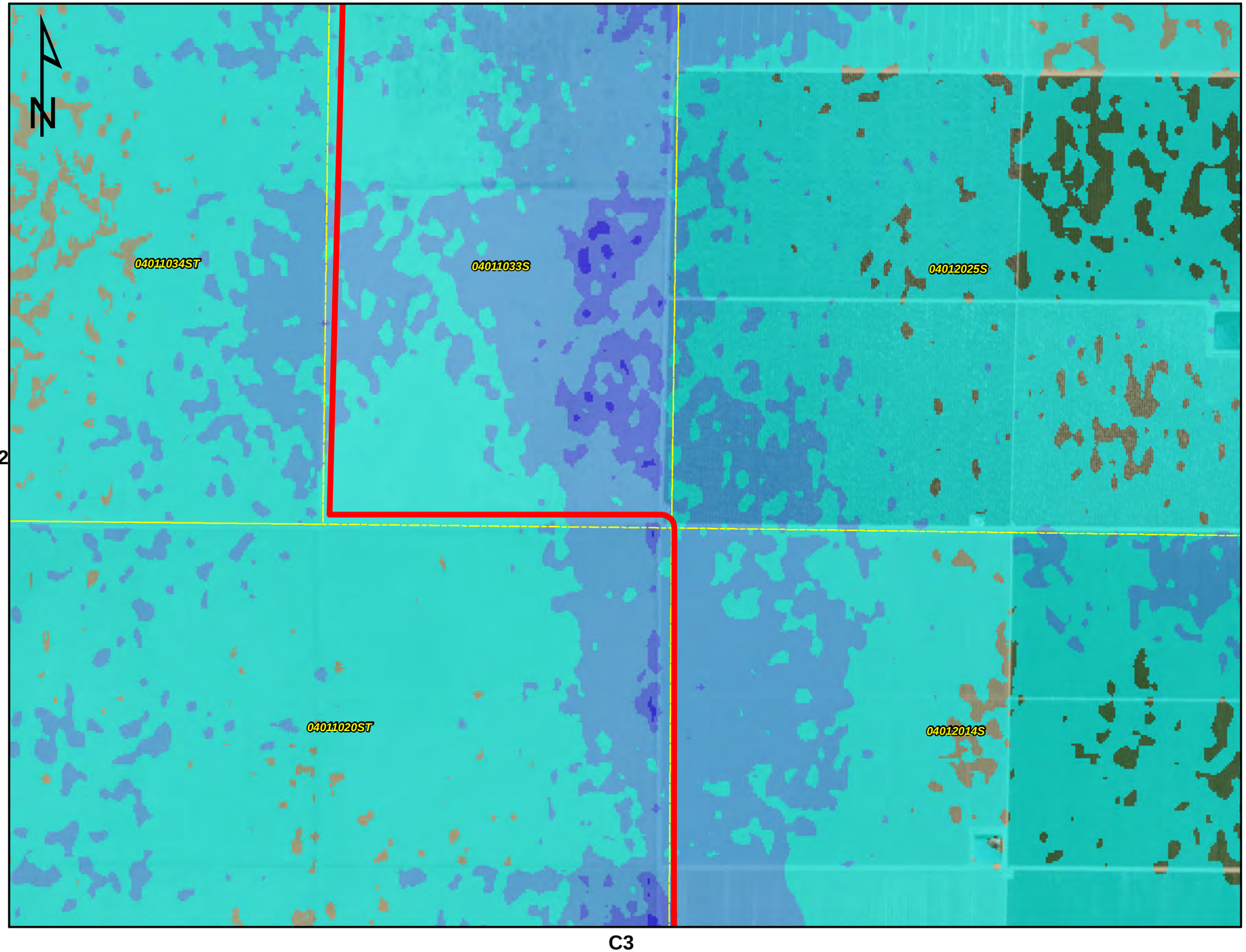

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UPPER DRY SUB-BASIN
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FRESNO COUNTY, CA

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Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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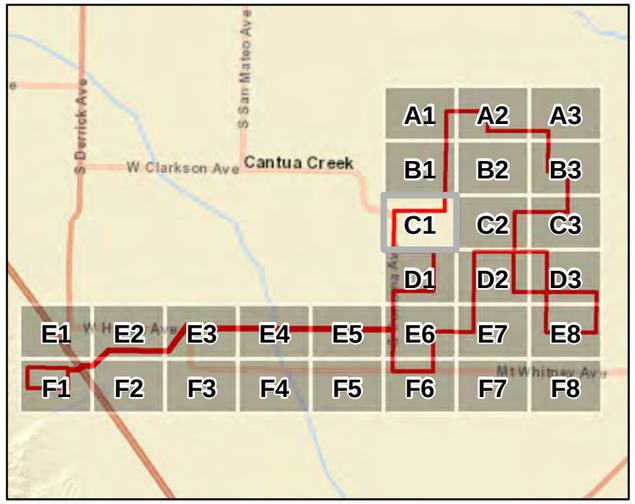

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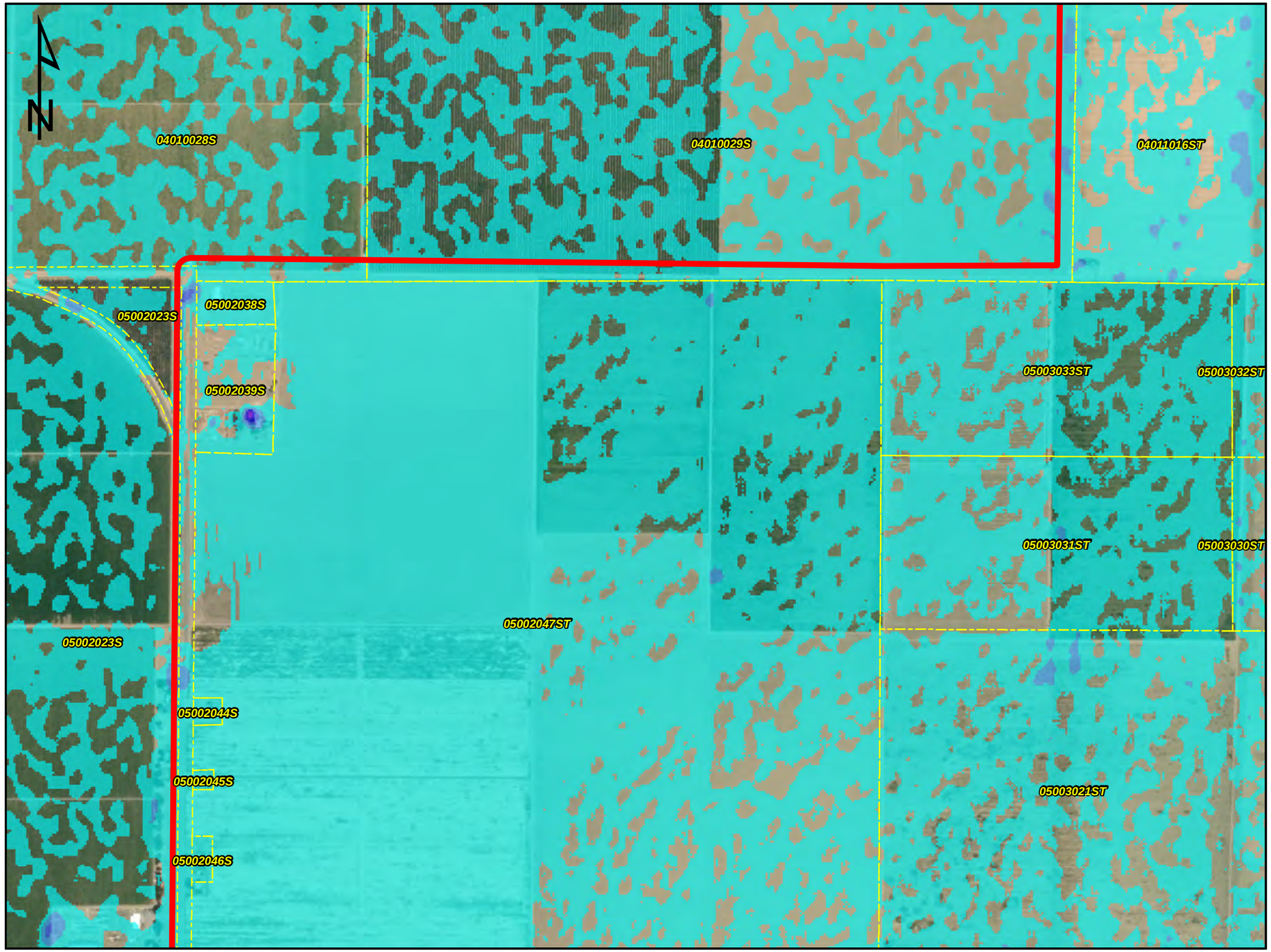

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UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

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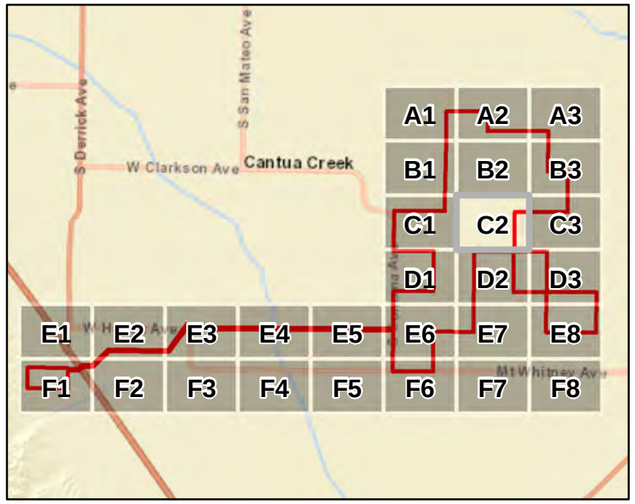

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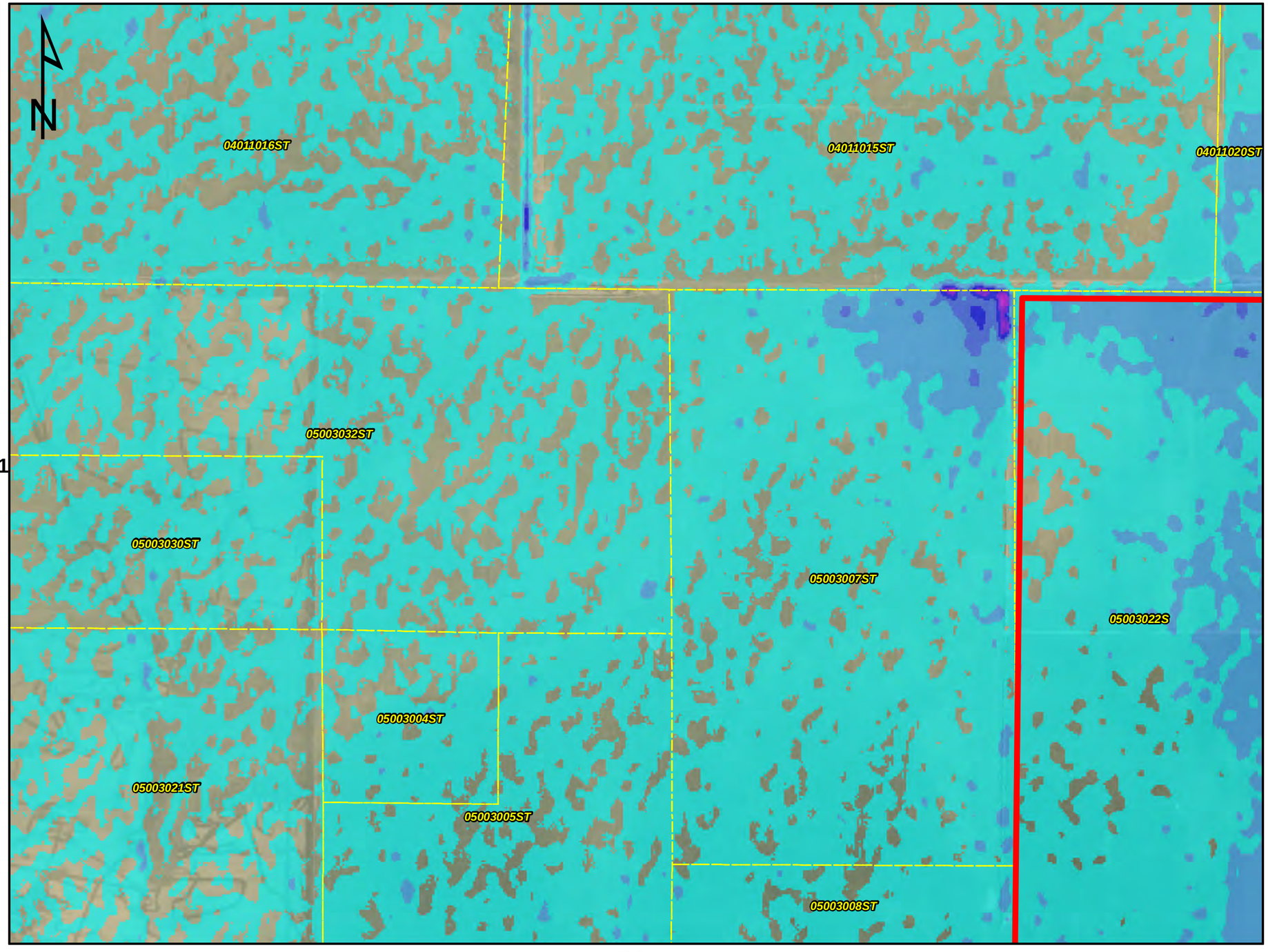

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- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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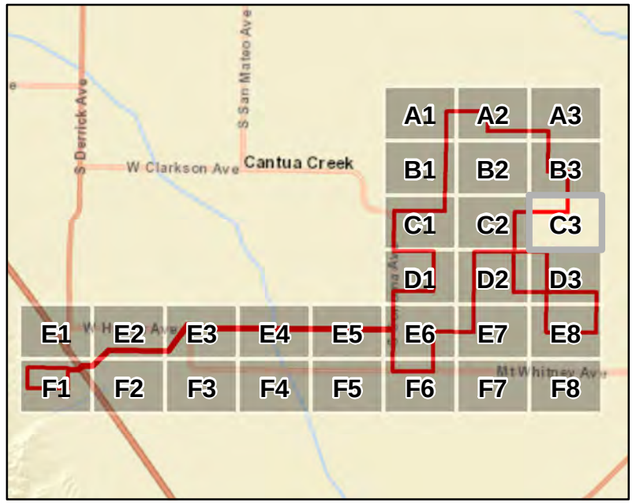

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040110205T

040120145

050030225

050040015T

050040145T

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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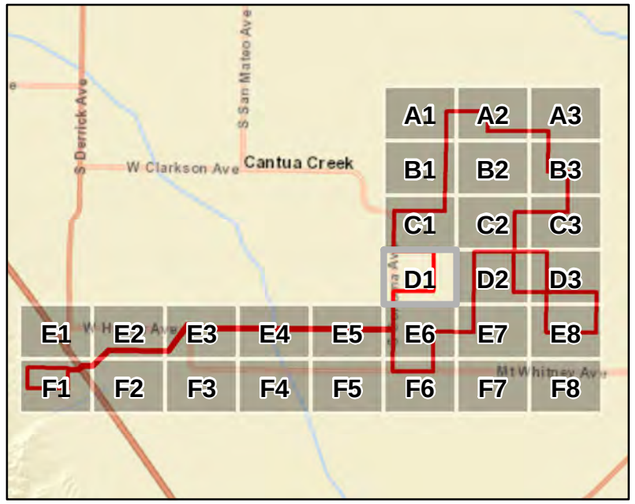

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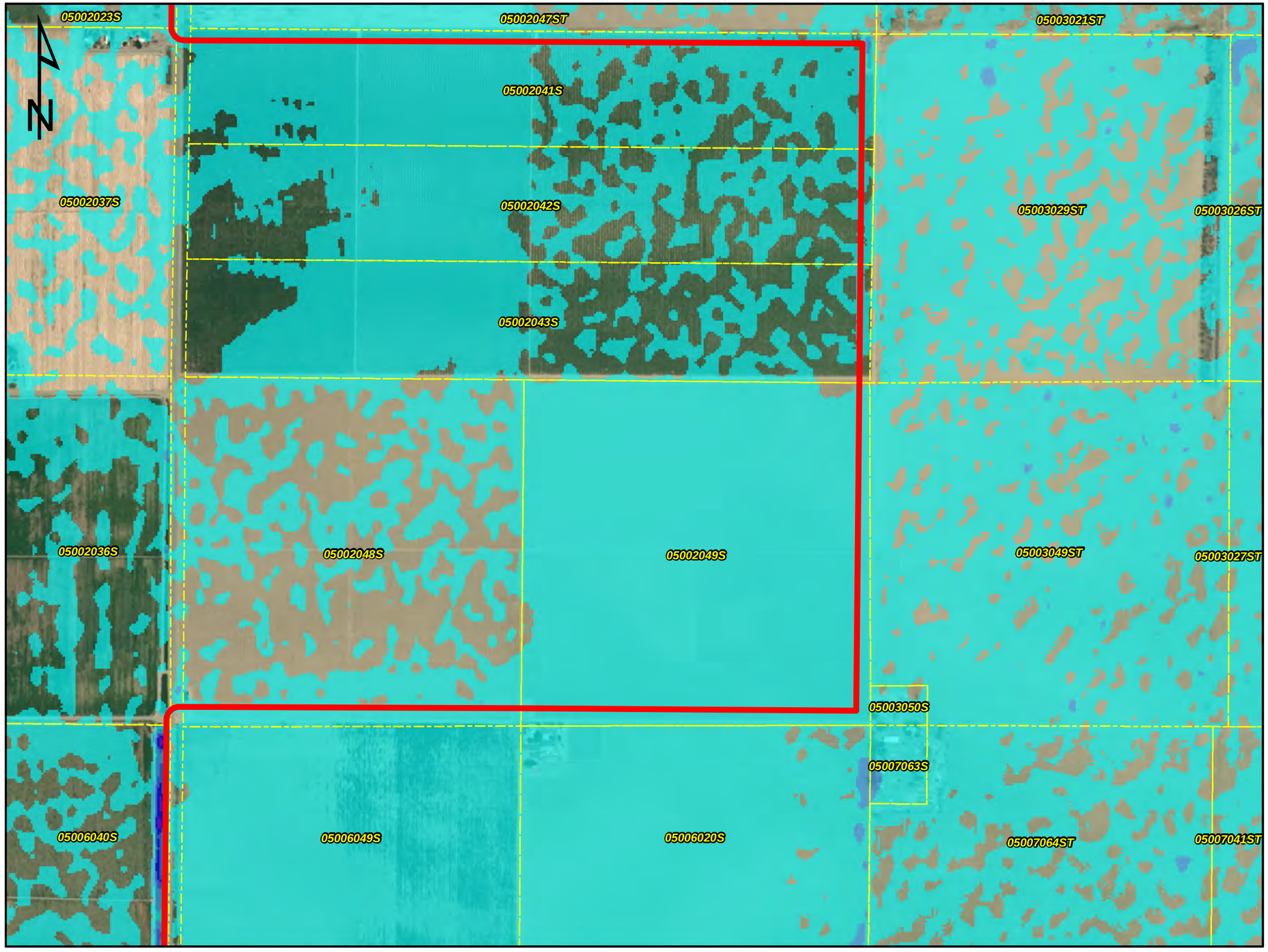

D2

E6

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
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Central Meridian: -119.0000
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Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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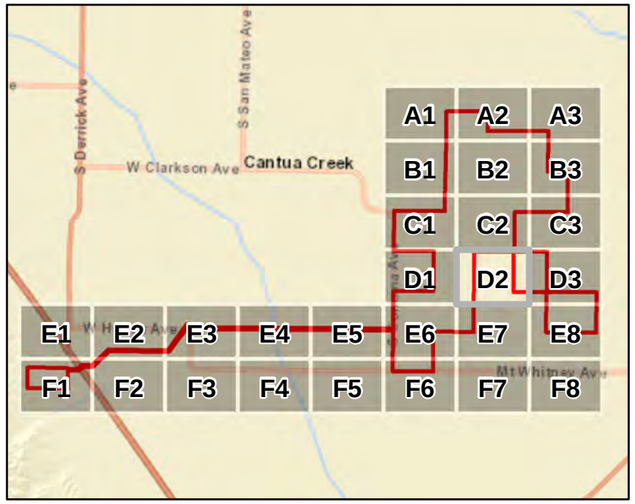

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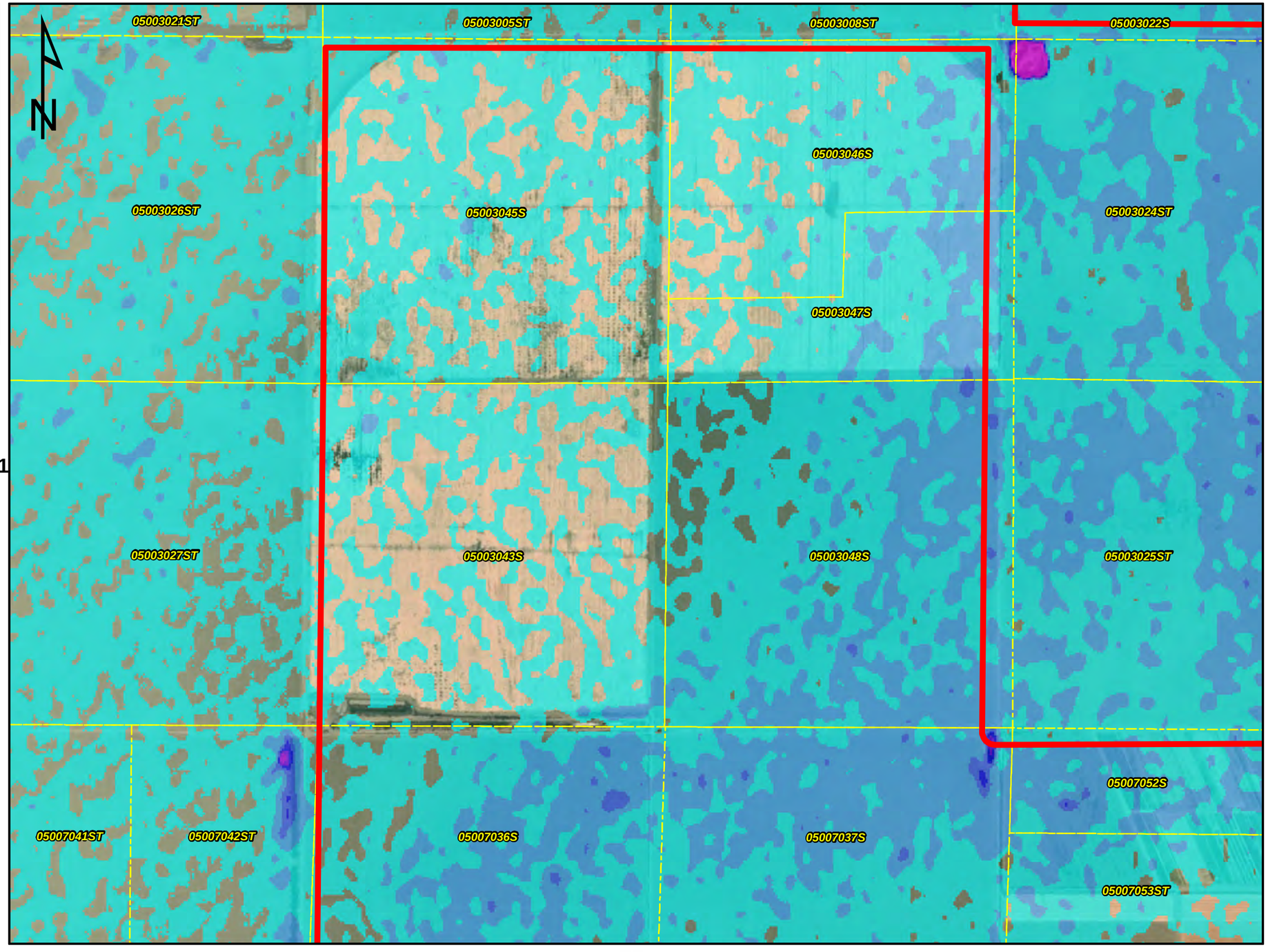

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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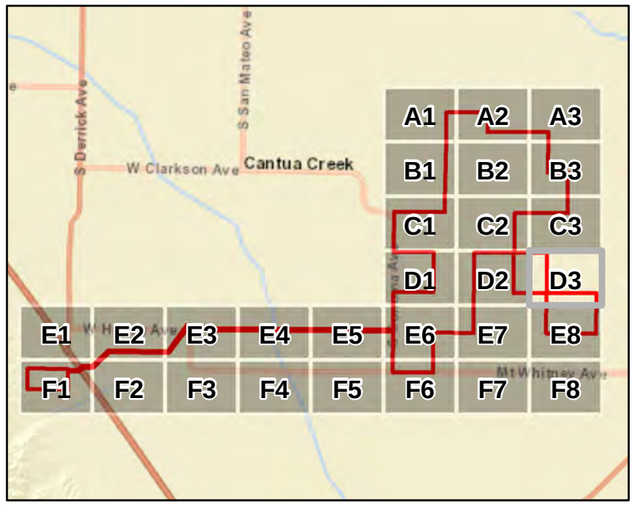

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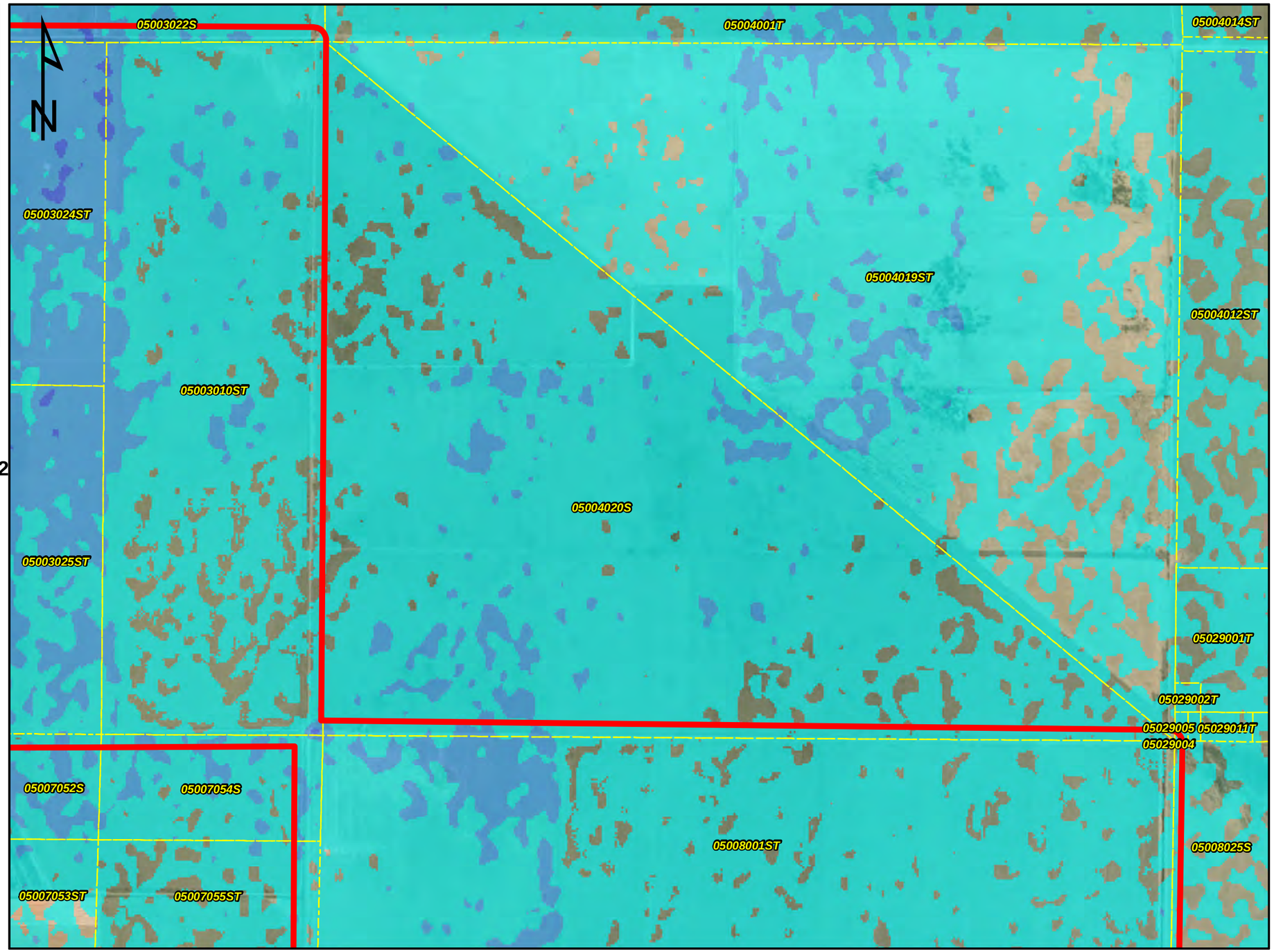

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
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100 Year - 24 Hour Storm (1% Annual Chance)

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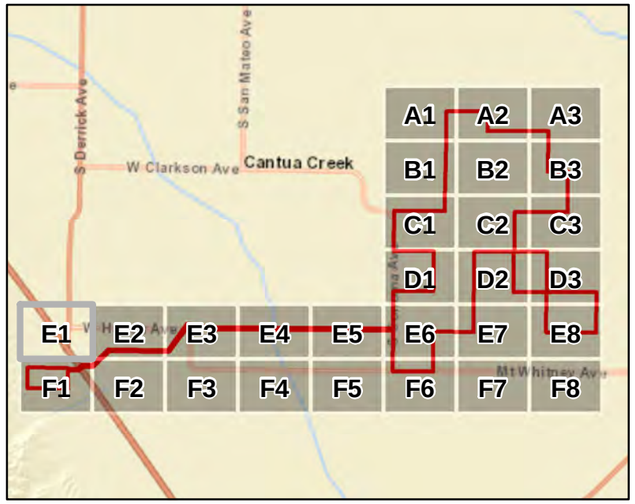

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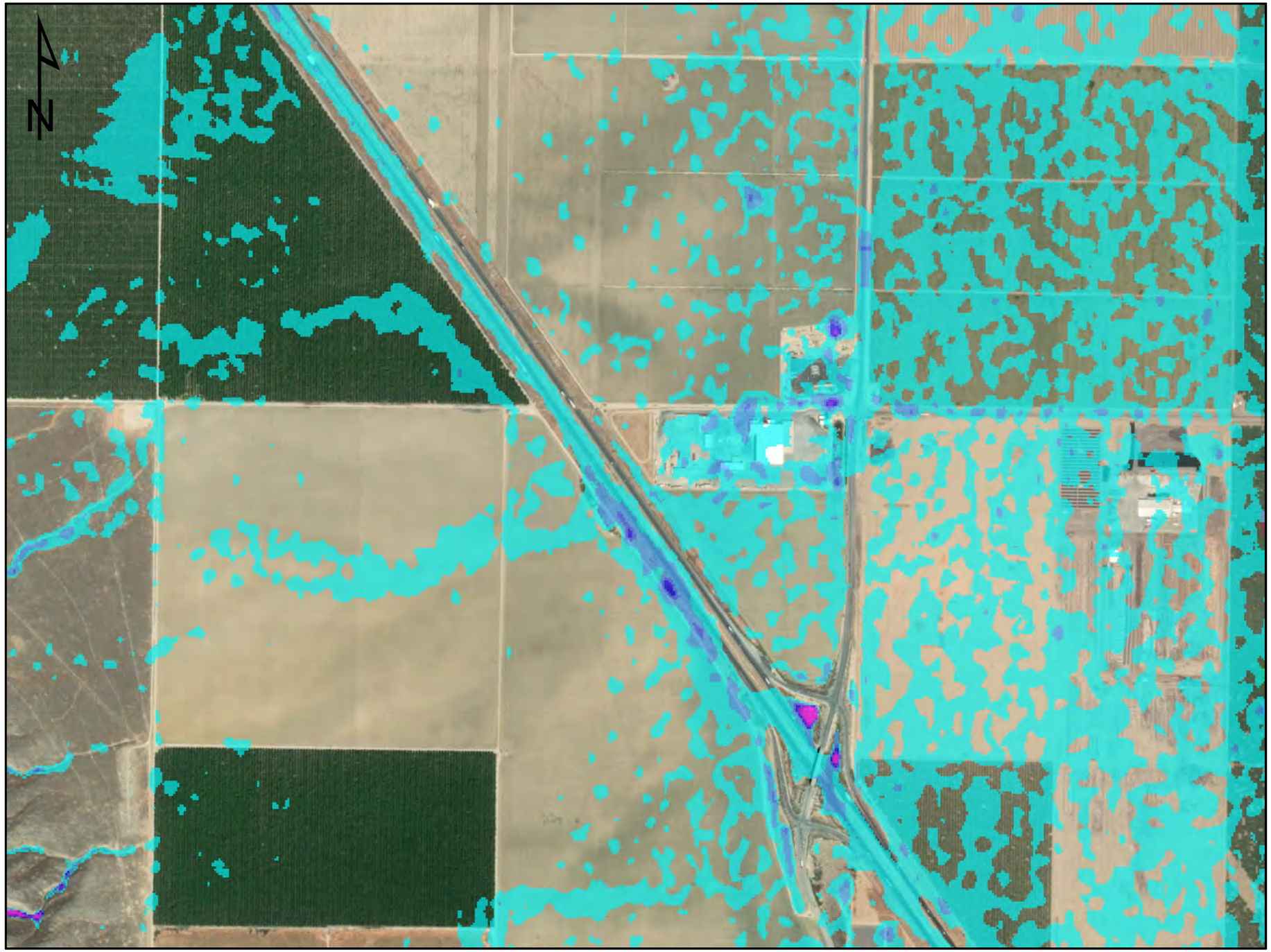

Legend

- Darden Study Area
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DARDEN STUDY AREA
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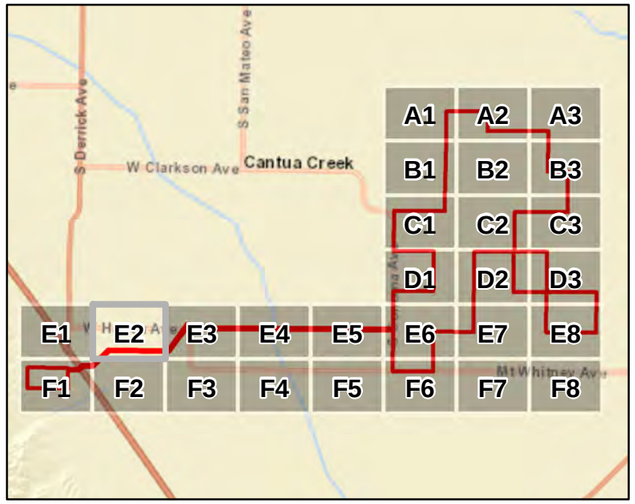

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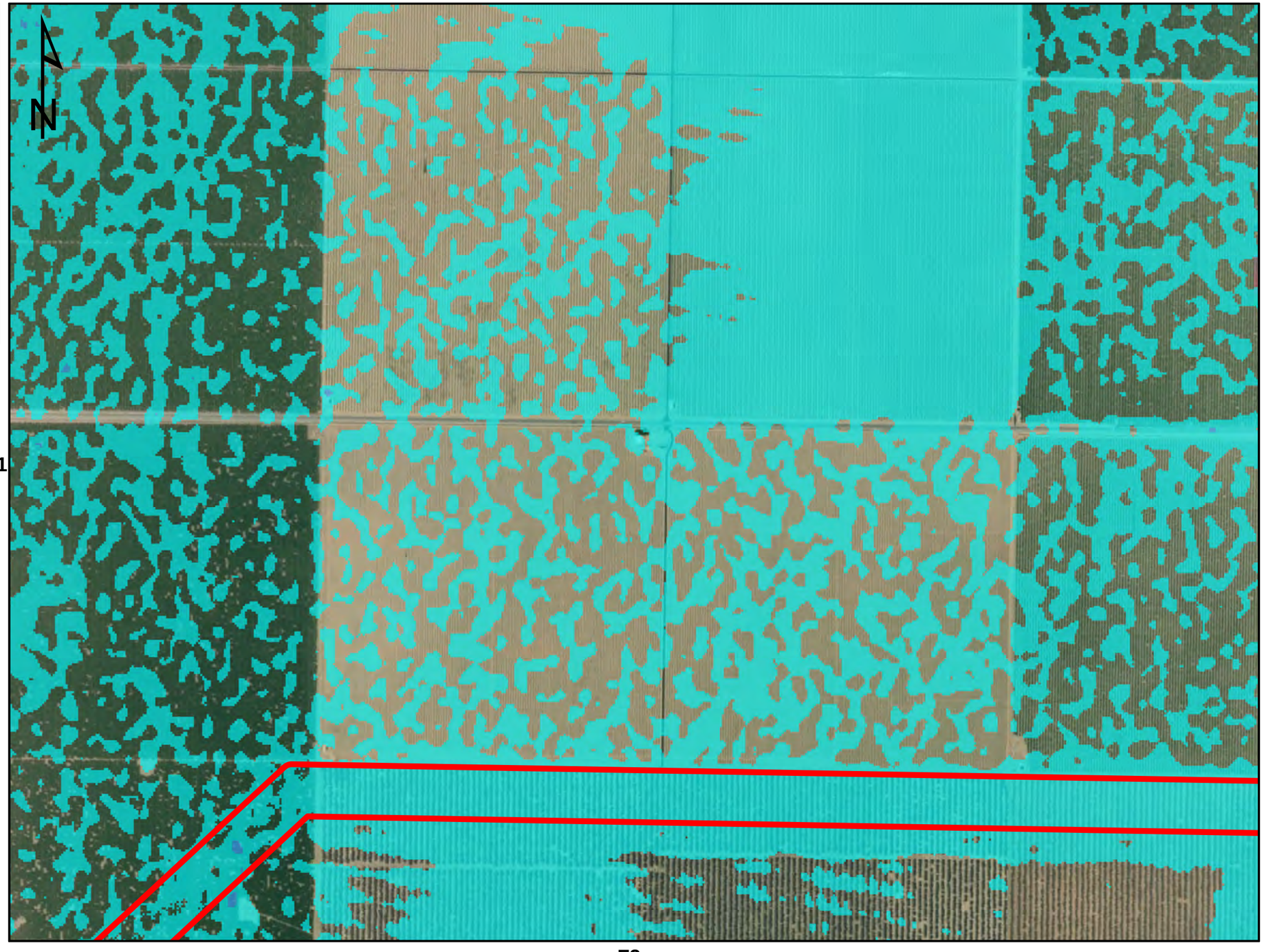

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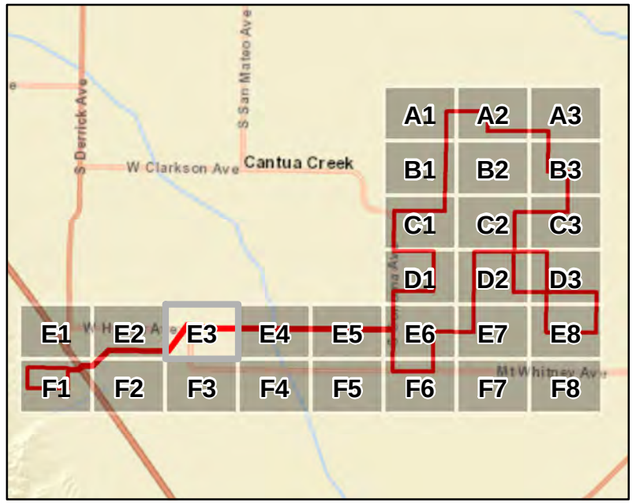

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Legend

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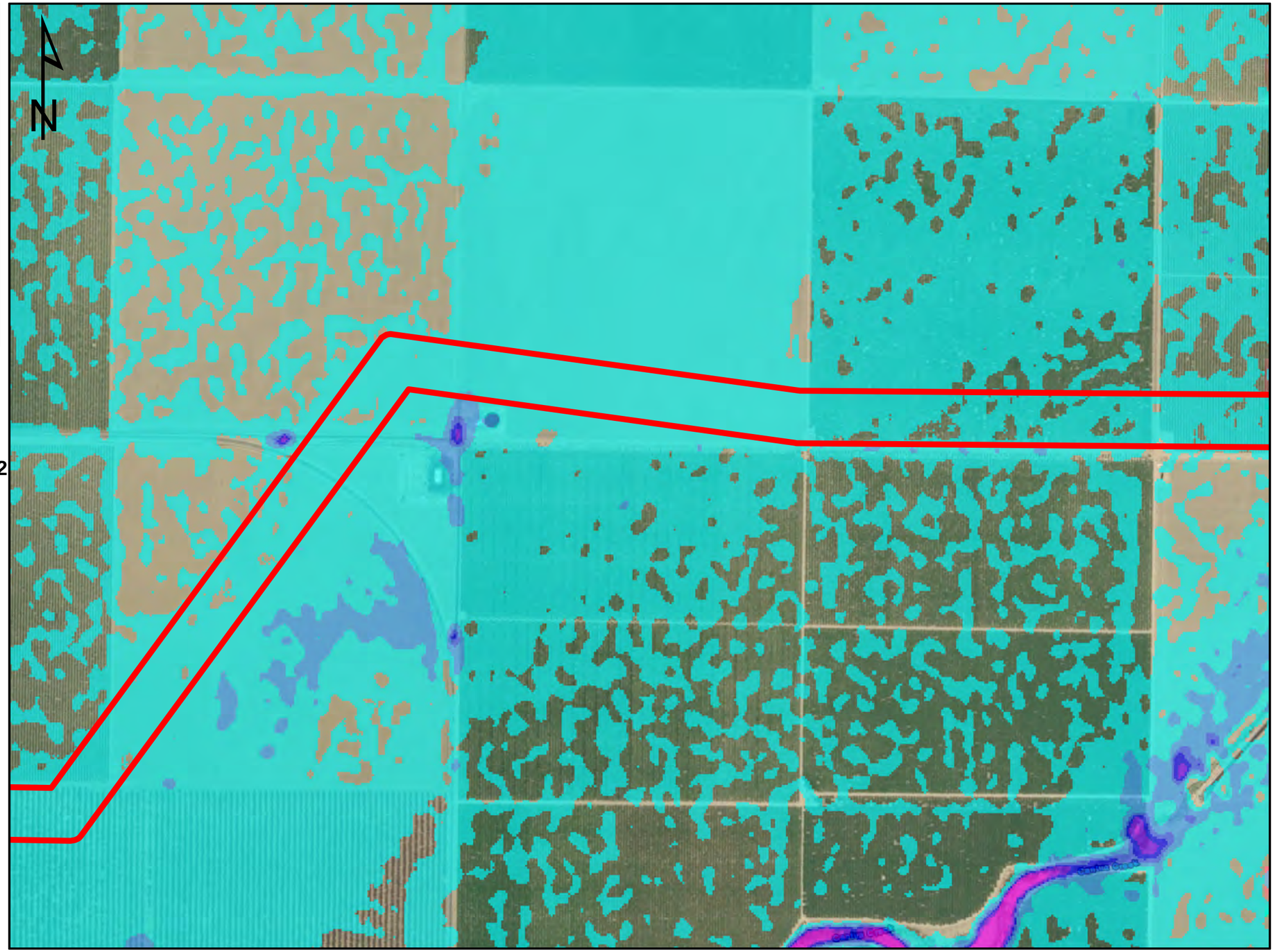
Units: Foot US

0 400 800 1,600 Feet



Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: E3
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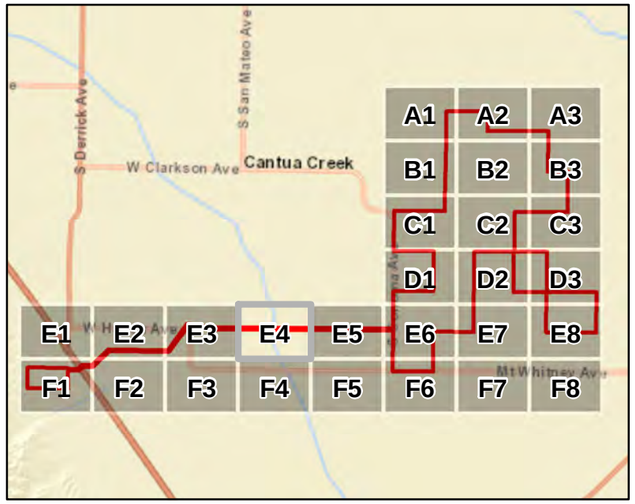


GRID INDEX

Legend

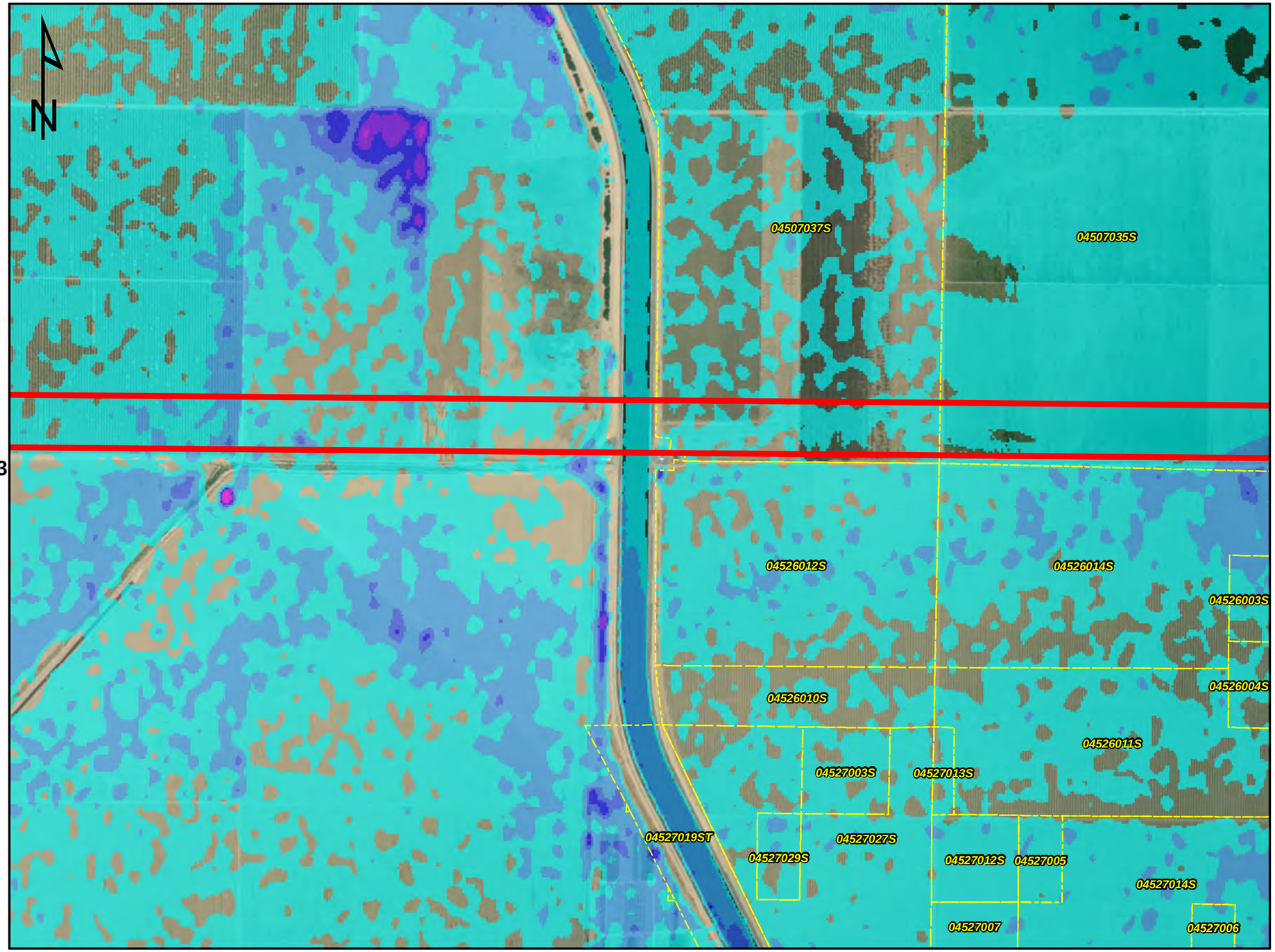
- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet



Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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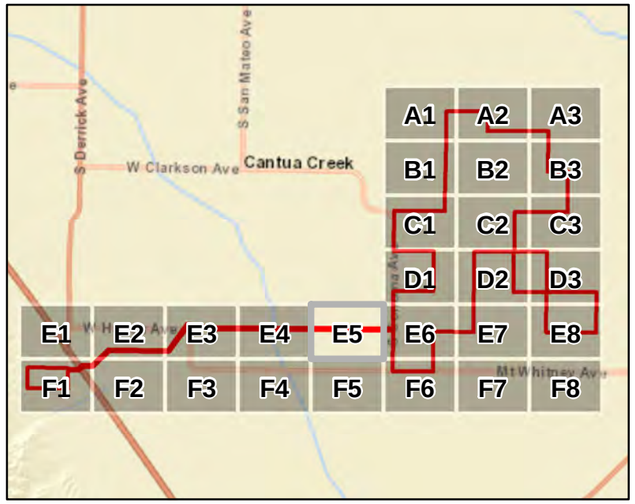

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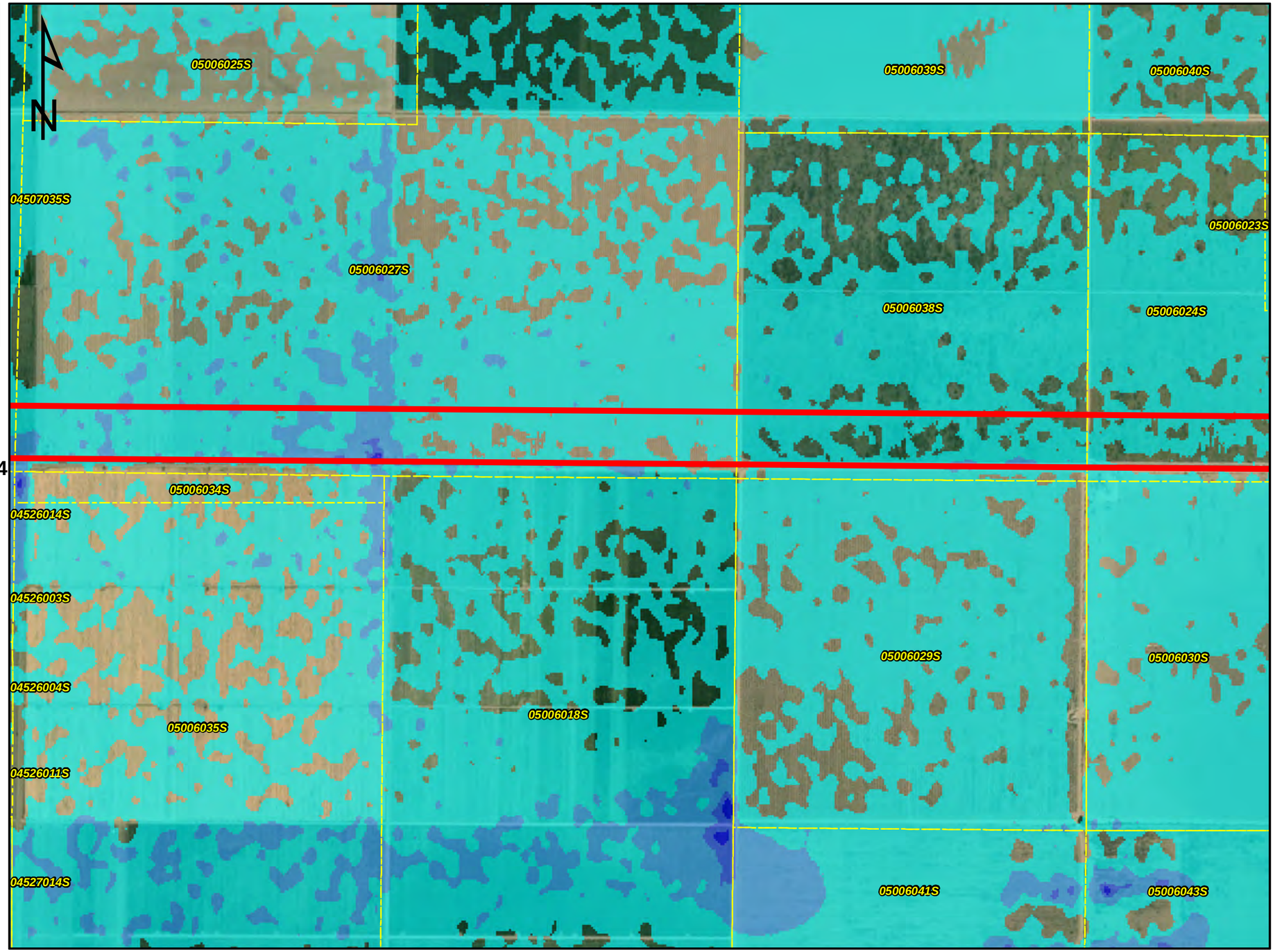

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: E5
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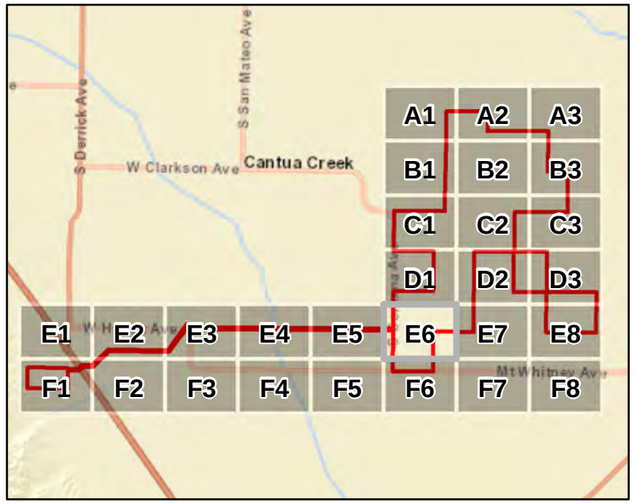

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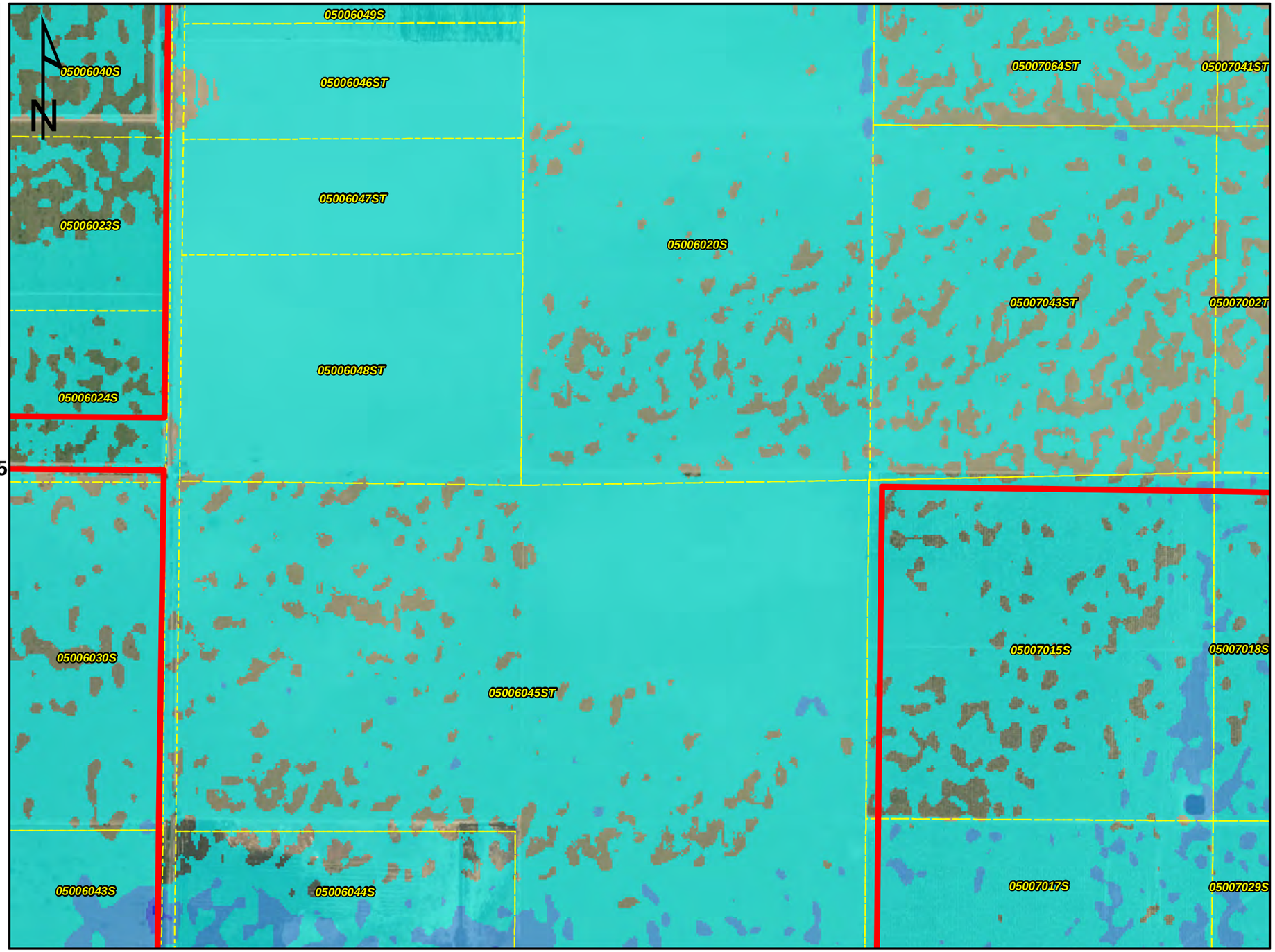

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
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Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: E6
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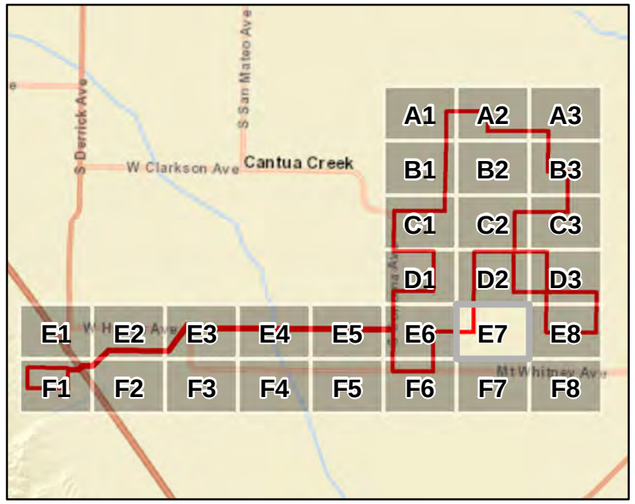

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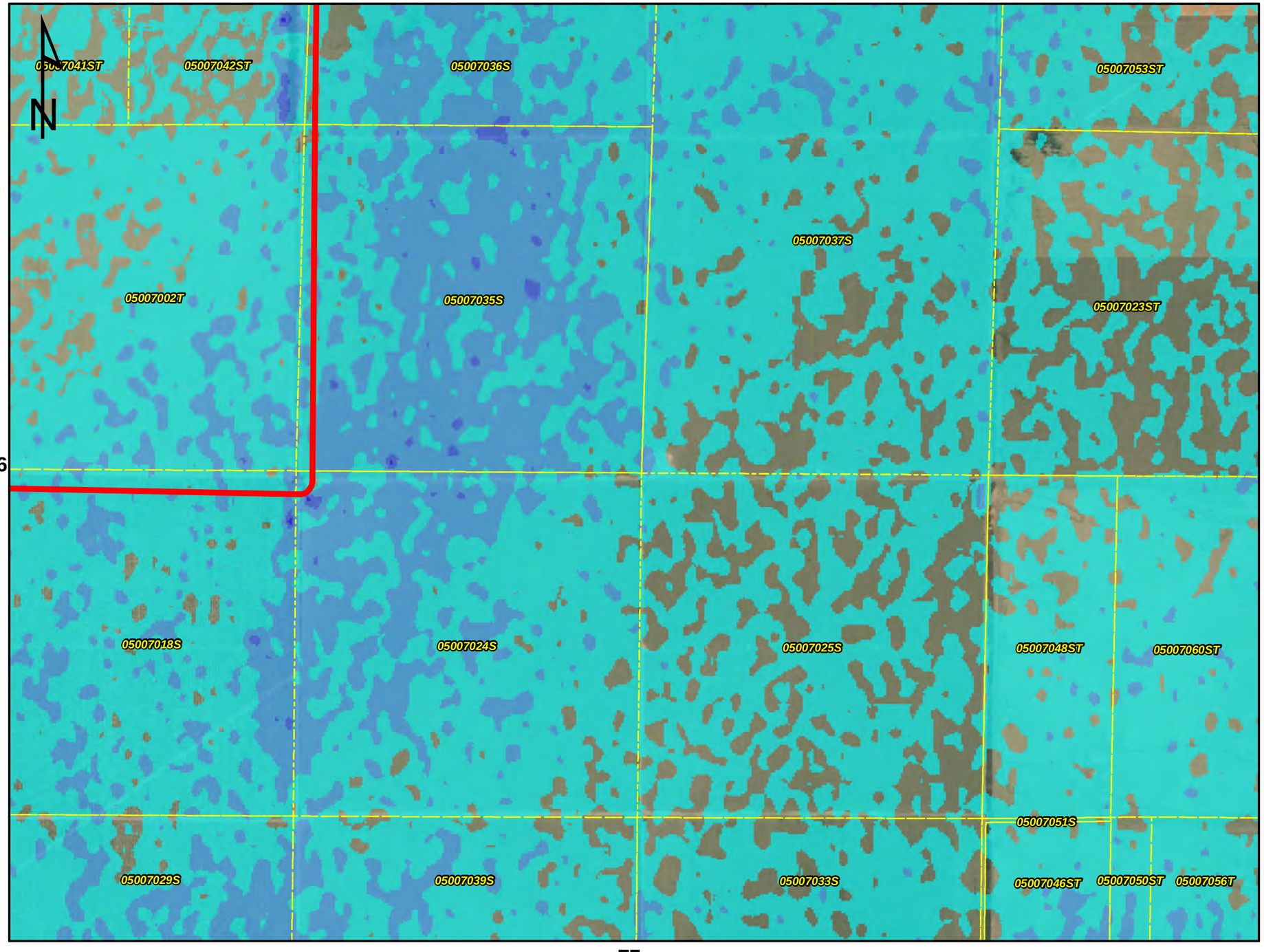

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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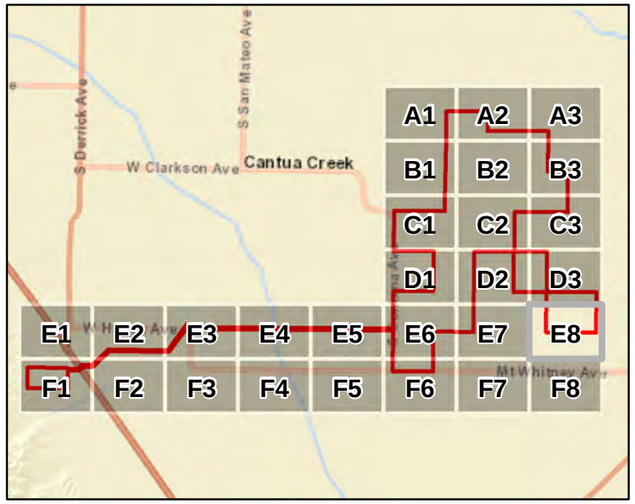

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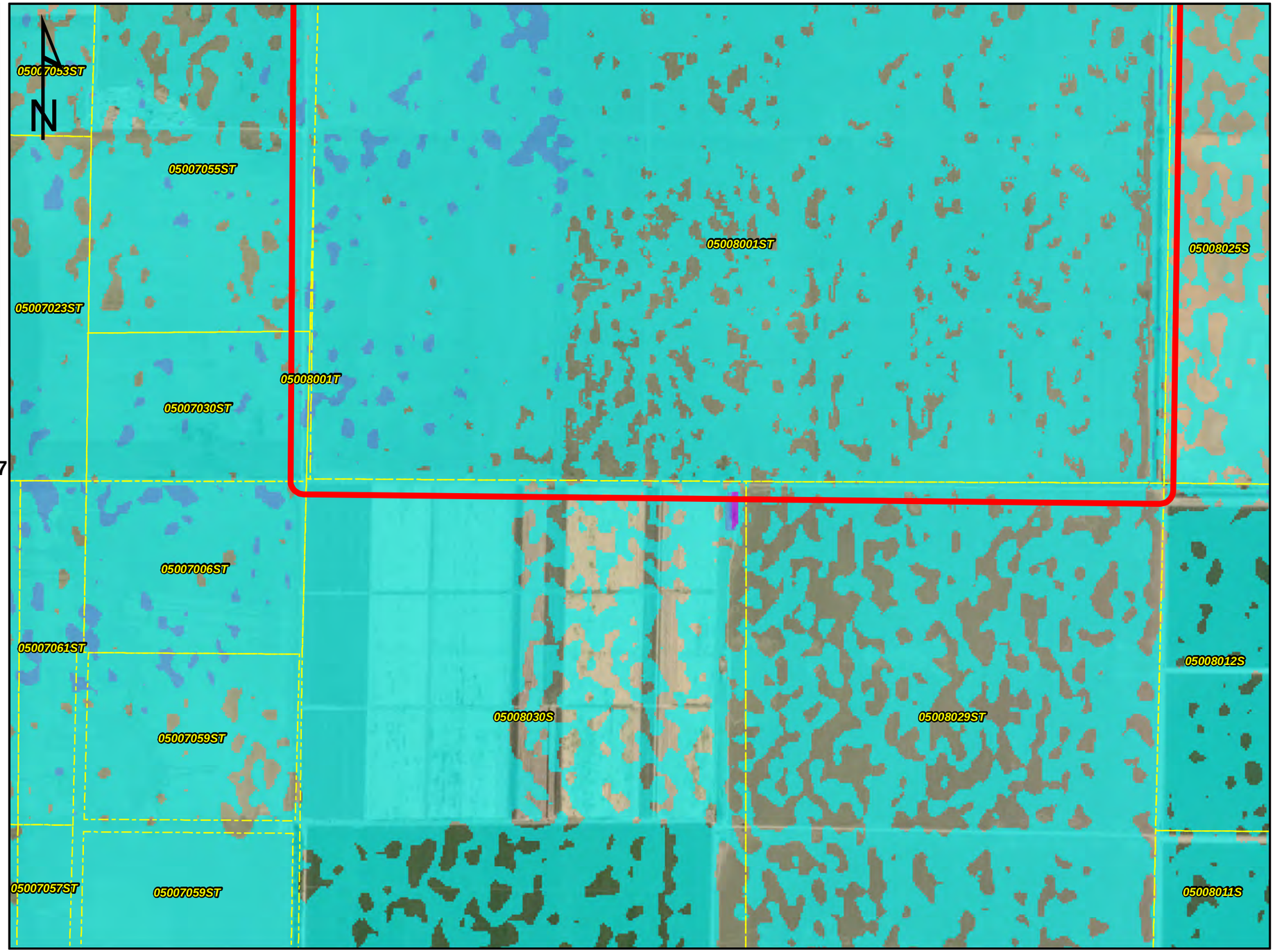

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
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False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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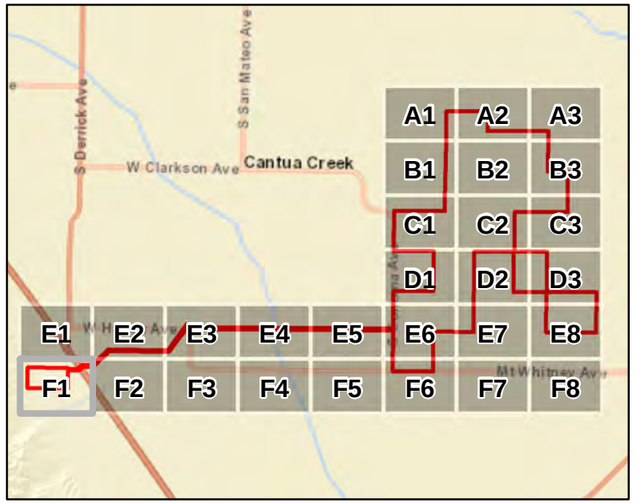

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Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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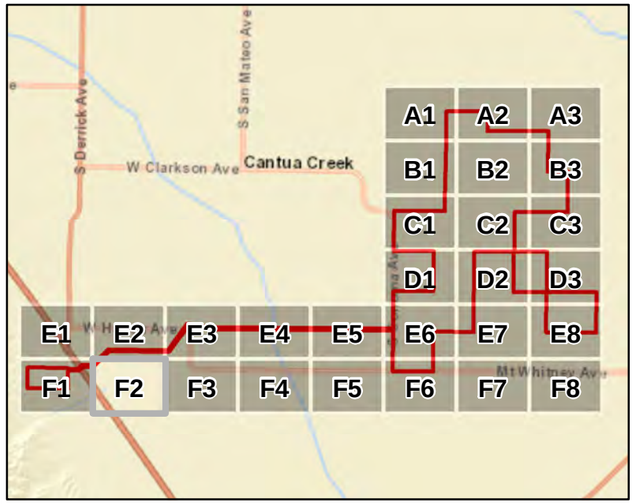

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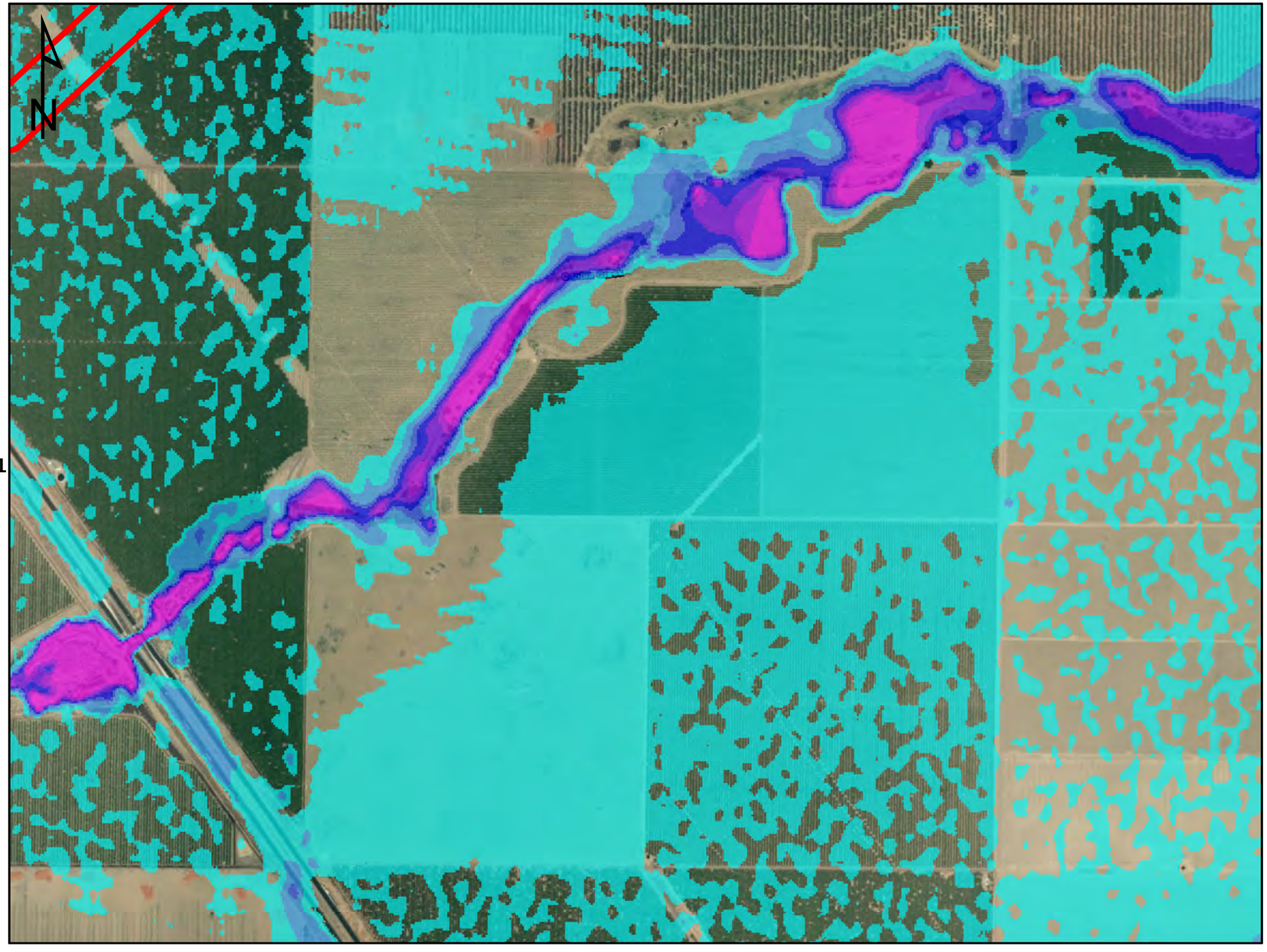

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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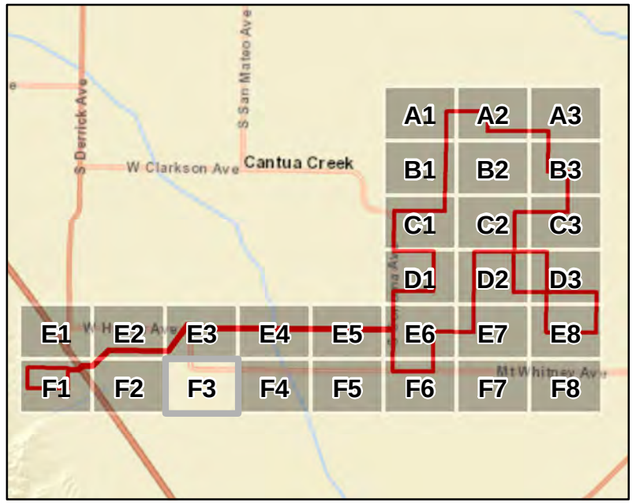
STATE: CALIFORNIA	PAGE: 24 OF 30



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Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

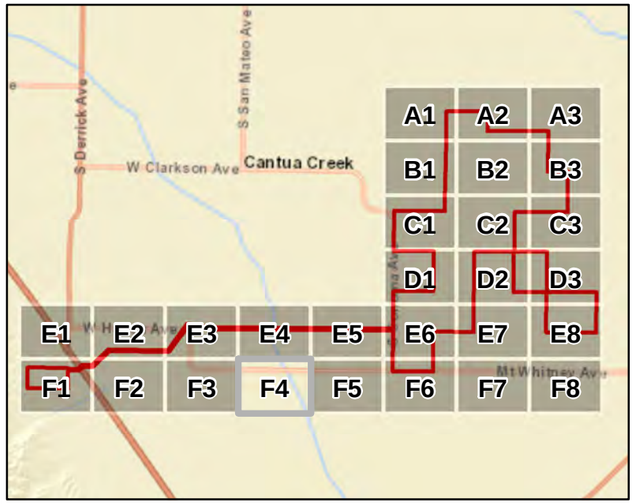
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F3
STATE: CALIFORNIA	PAGE: 25 OF 30



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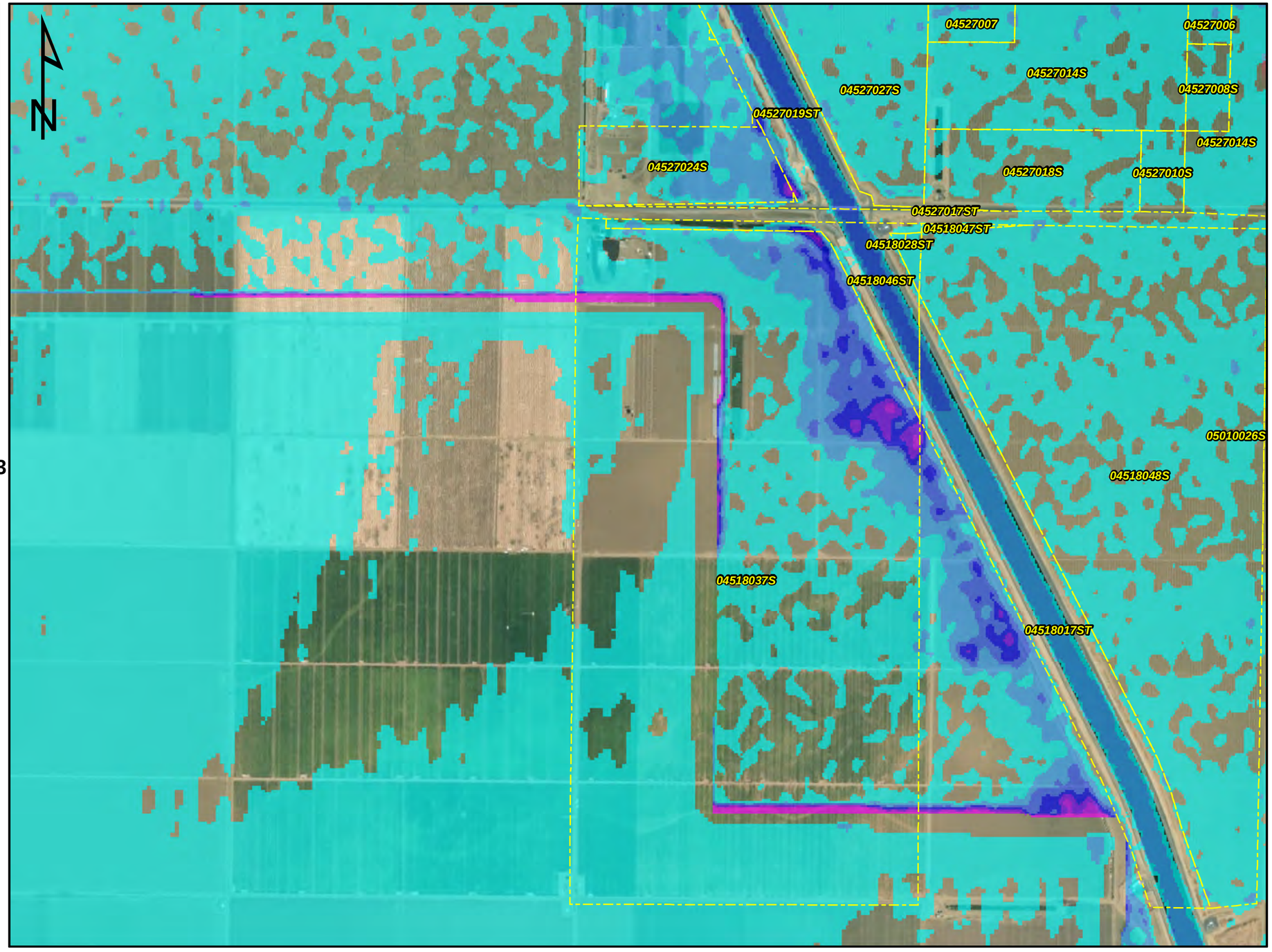


Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

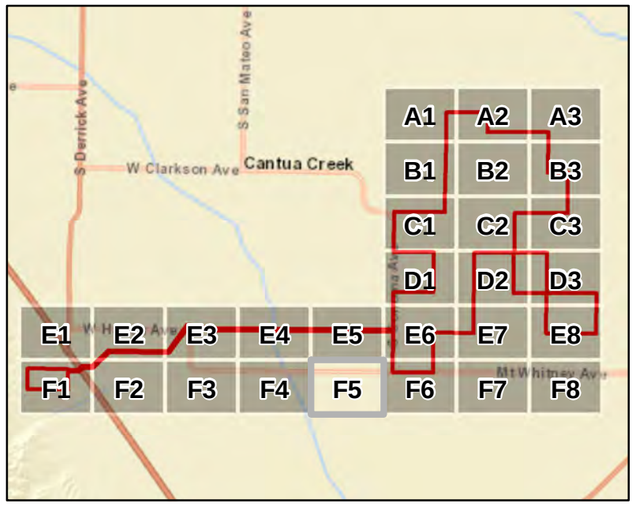
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F4
STATE: CALIFORNIA	PAGE: 26 OF 30



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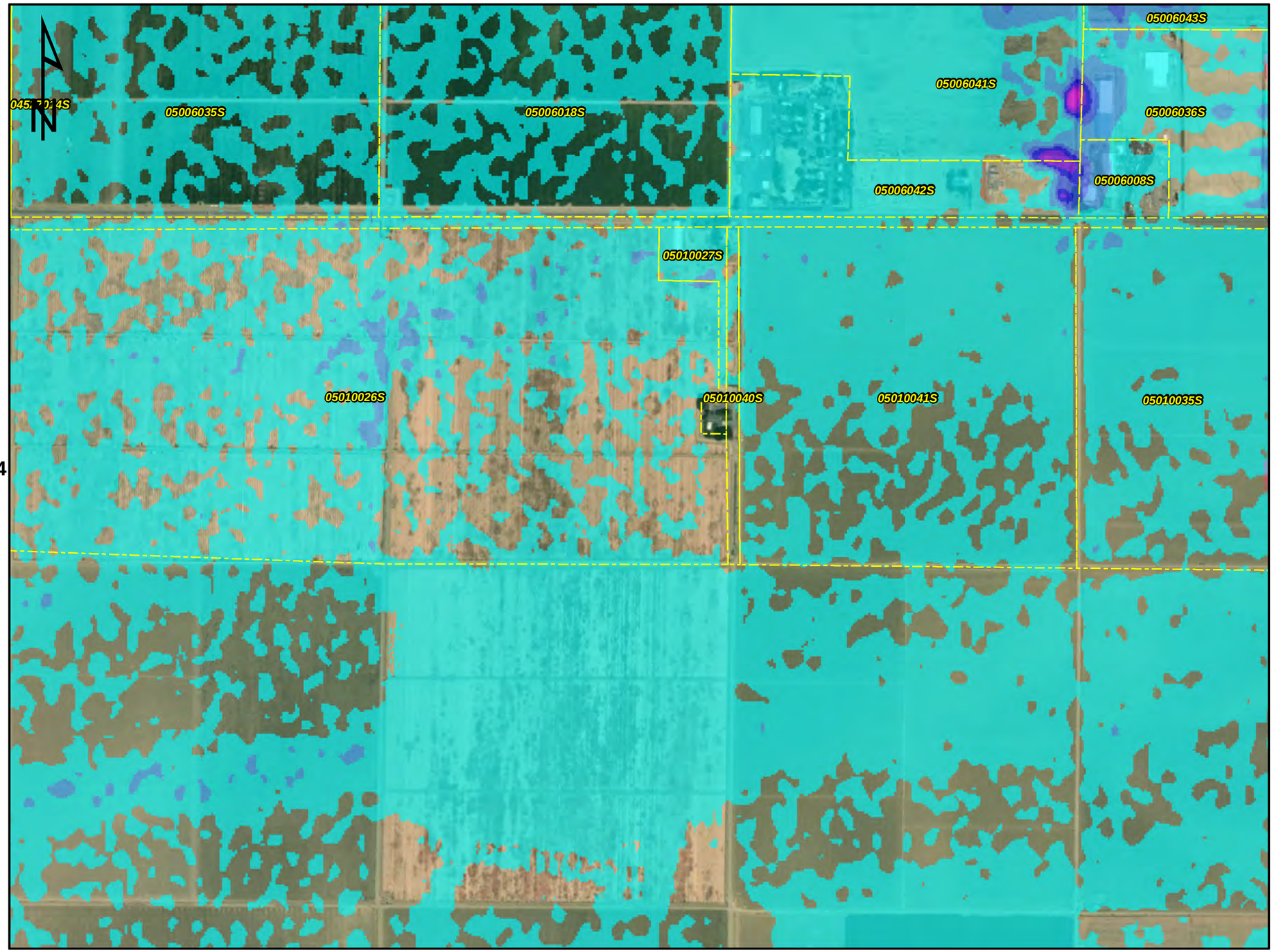

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F5
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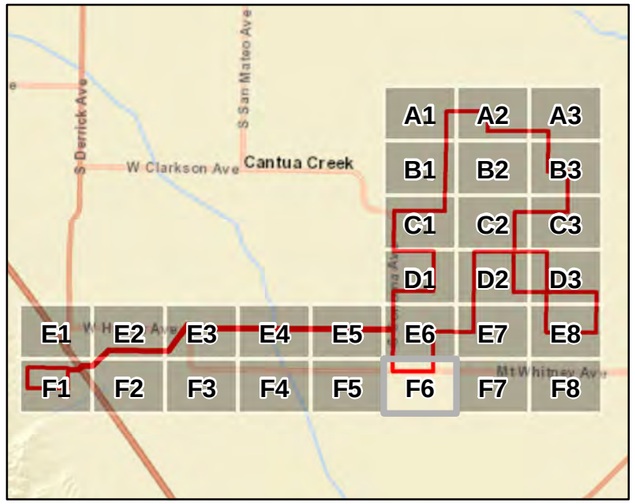

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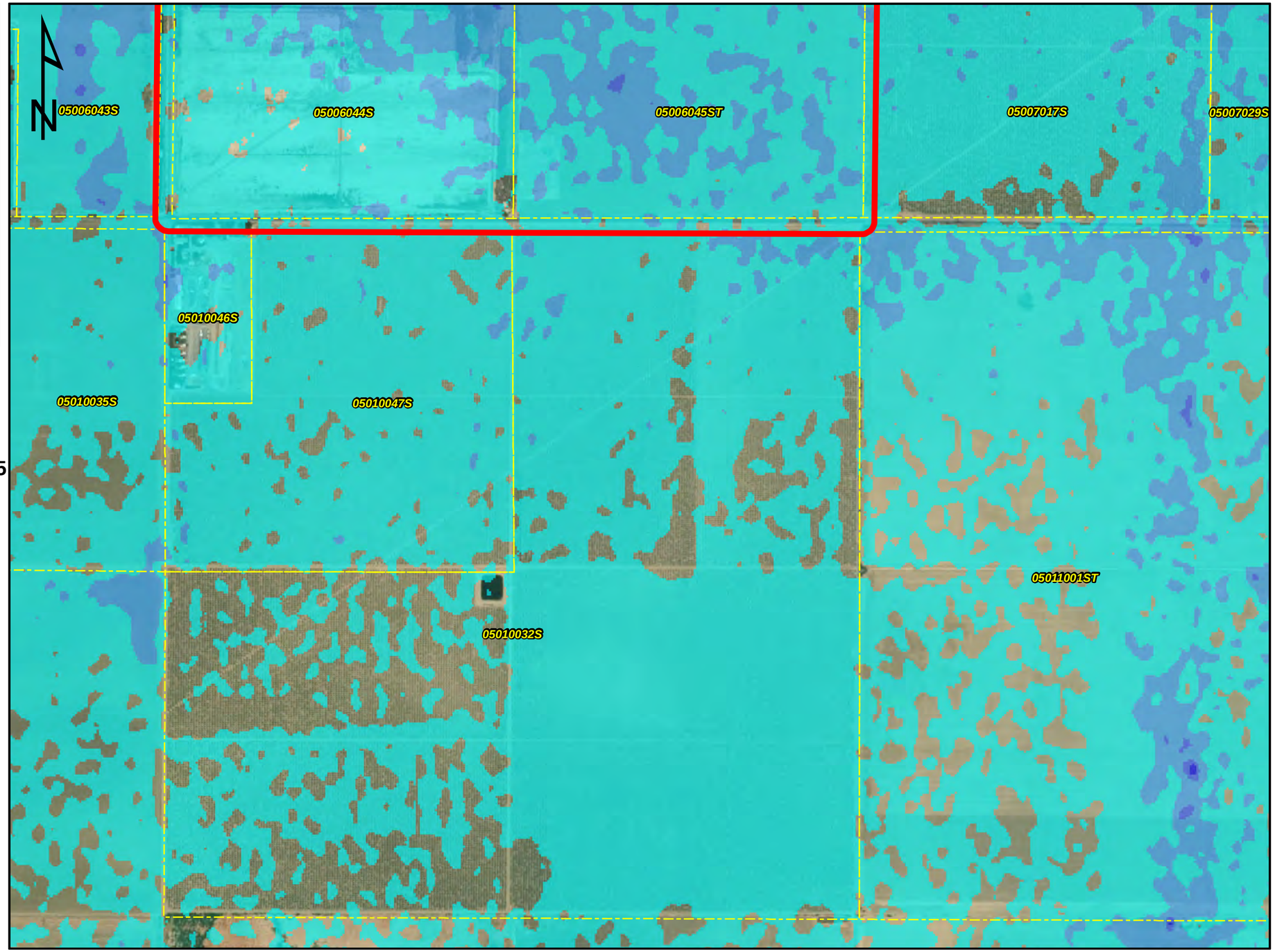

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
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Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

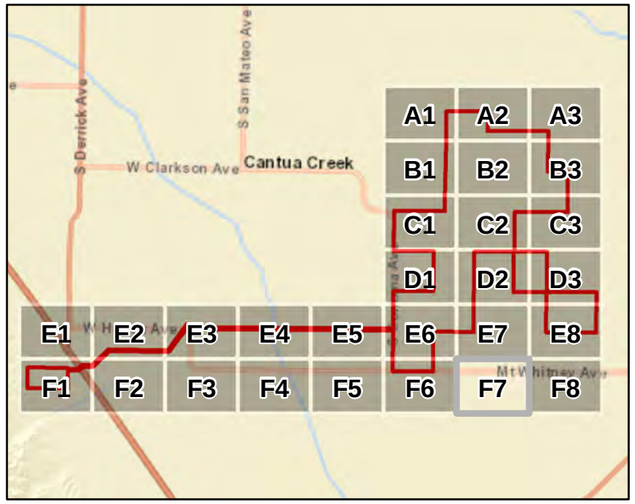
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F6
STATE: CALIFORNIA	PAGE: 28 OF 30



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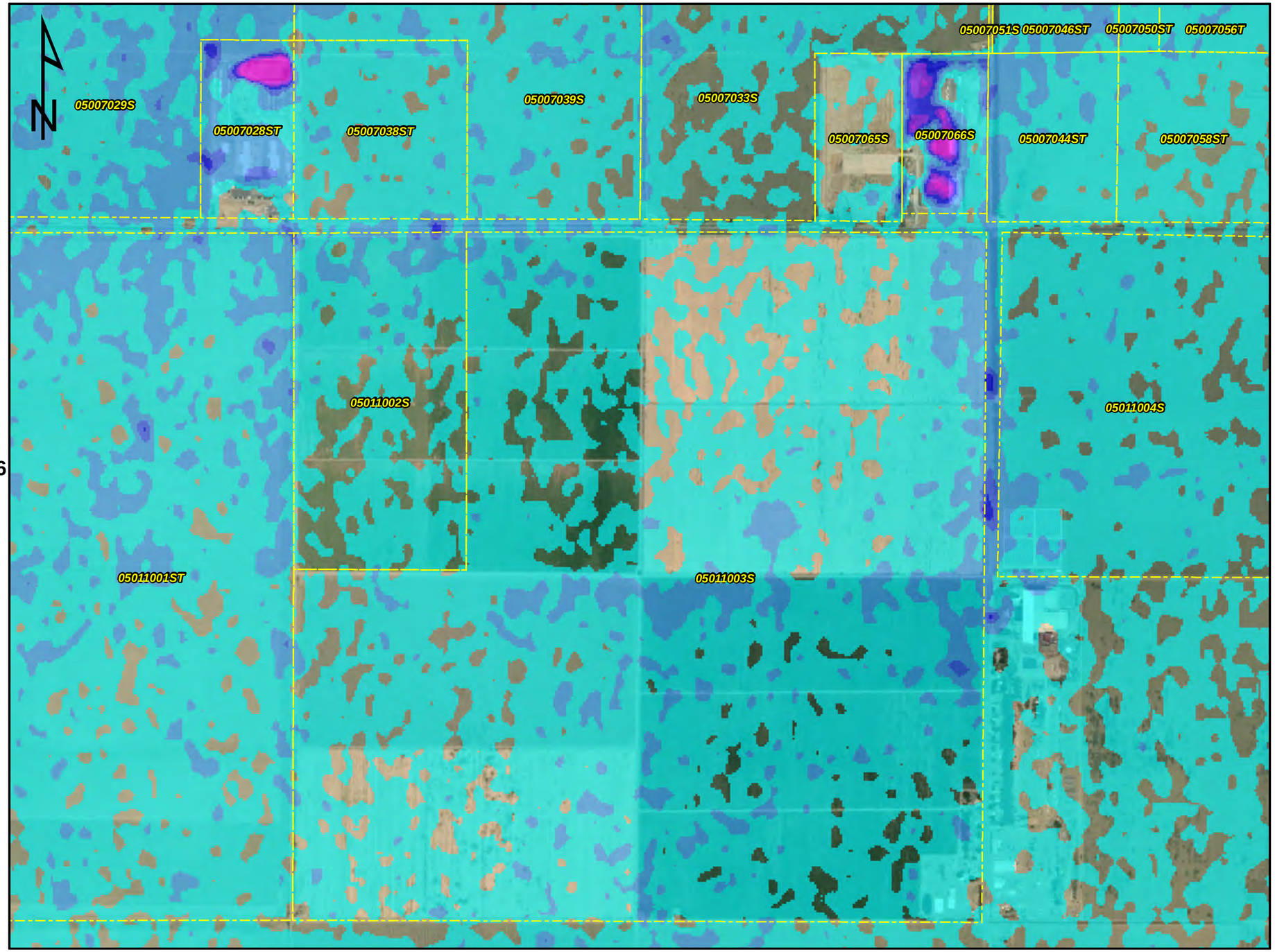

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
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Central Meridian: -119.0000
Standard Parallel 1: 36.0000
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Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Map Produced: 10/10/2023

Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F7
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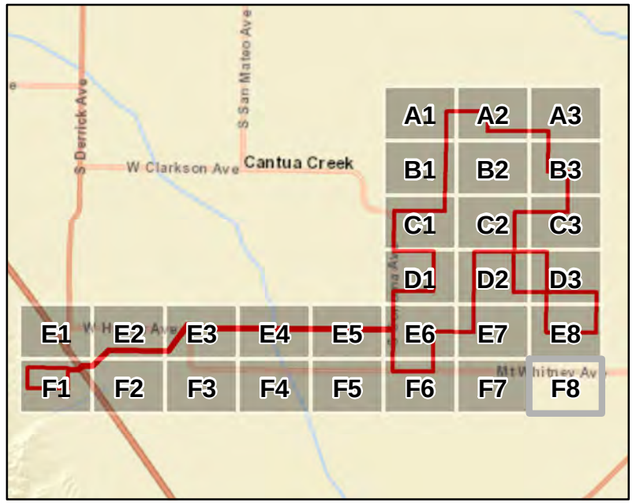

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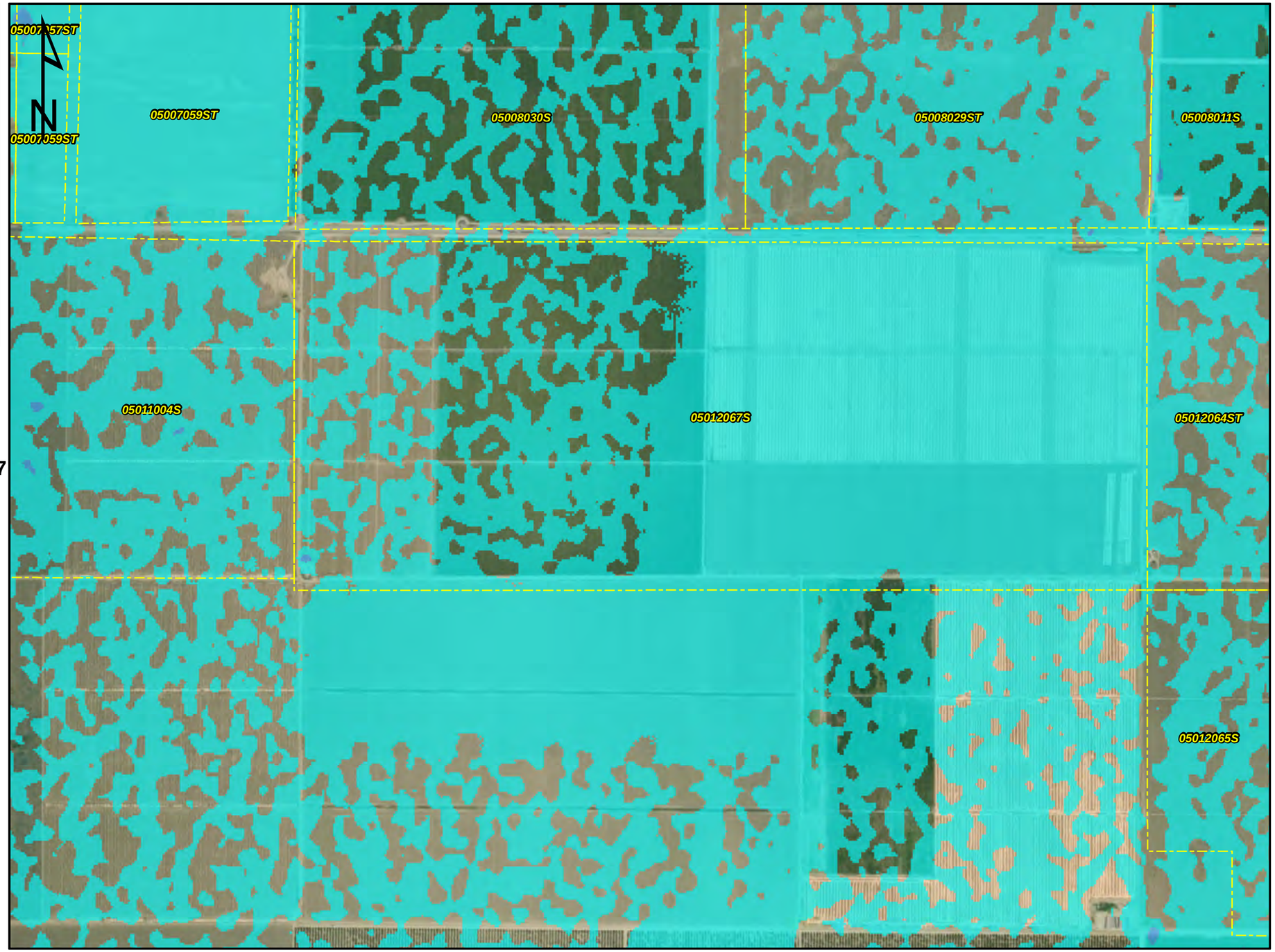

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
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Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

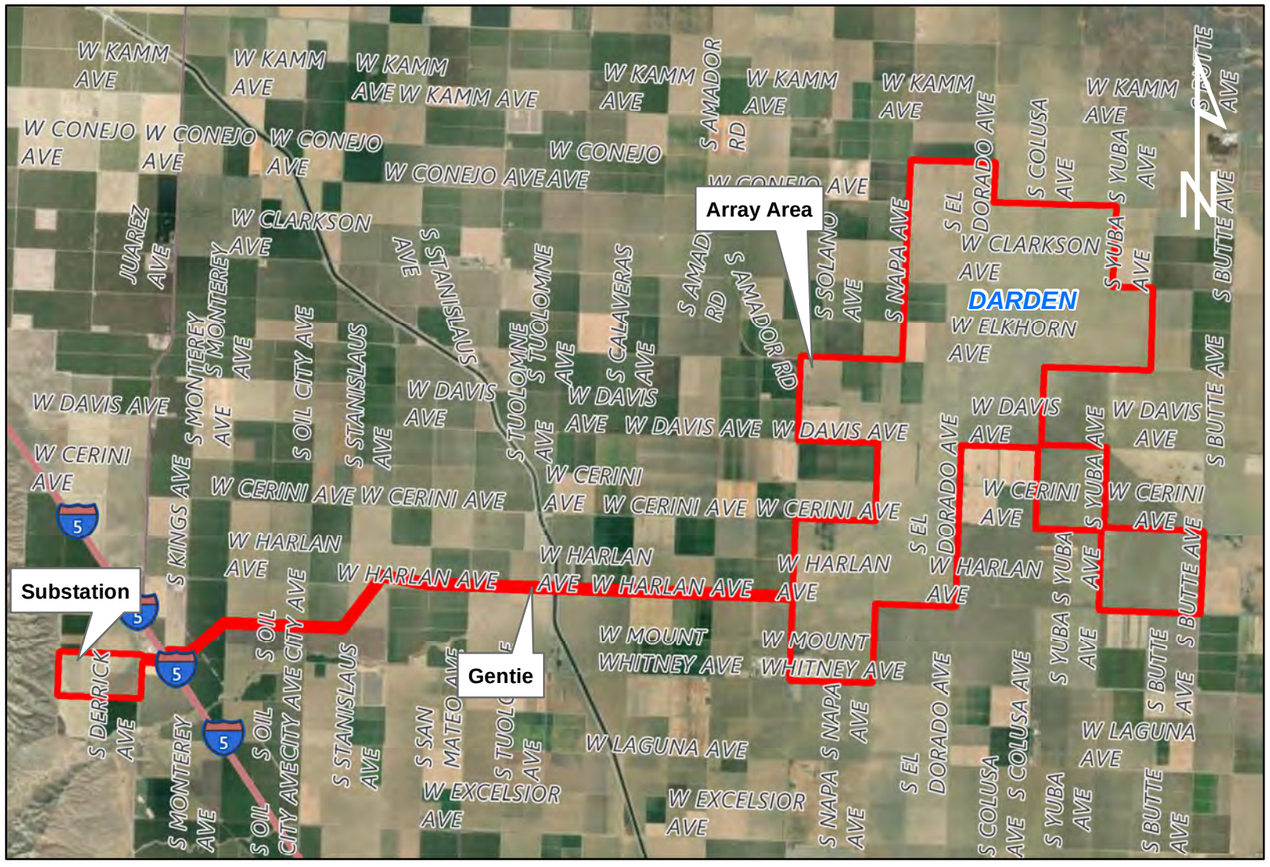
Darden
Maximum Flood Depth Classification
100 Year - 24 Hour Storm (1% Annual Chance)

Map Produced: 10/10/2023

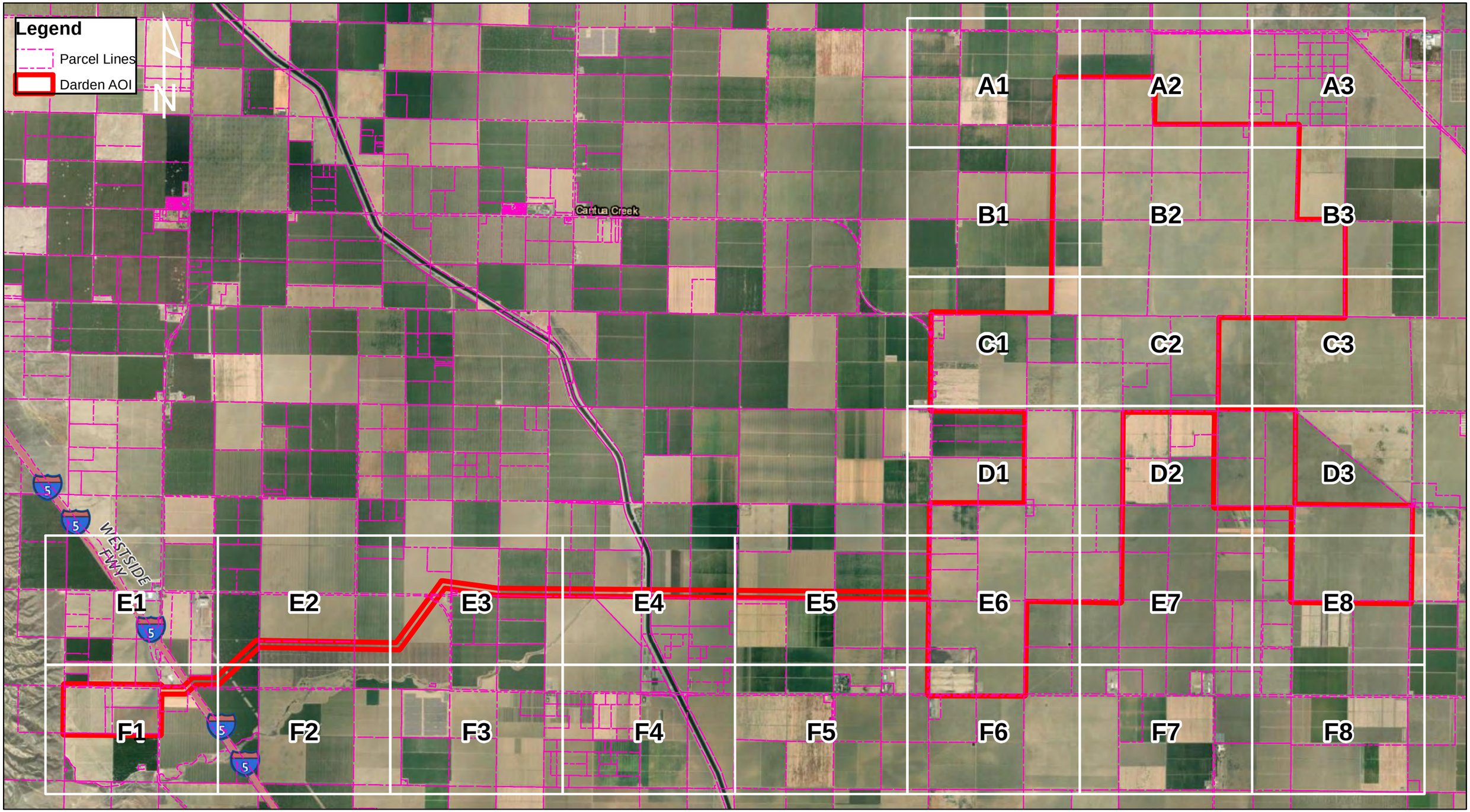
SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F8
STATE: CALIFORNIA	PAGE: 30 OF 30

Intersect Power

STUDY AREA: IP DARDEN
LOCATION: FRESNO COUNTY, CA
TOTAL ACREAGE: 10,261
CLASSIFICATION: 500YR-24HR FLOOD (MAX DEPTH)
COORDINATE SYSTEM: NAD 83 STATE PLANE - CA ZN04
DATE PRODUCED: OCTOBER 2023



Intersect Power	**UPPER DRY SUB-BASIN DARDEN STUDY AREA FRESNO COUNTY, CA**	***THIS DOCUMENT CONTAINS PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT WRITTEN PRIOR APPROVAL OF INTERSECT POWER, INC.***	**TITLE SHEET DARDEN STUDY AREA MAX FLOOD DEPTH CLASSIFICATION** Map Produced: 10/10/2023	SCALE: 1 in = 10,000 ft COUNTY: FRESNO STATE: CALIFORNIA	BY: WRMA GRID INDEX NO.: PAGE: 1 OF 30



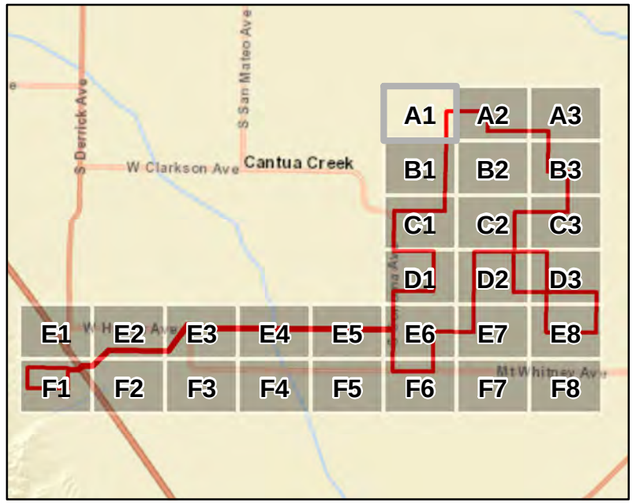
Intersect Power

TITLE SHEET
DARDEN STUDY AREA
FRESNO COUNTY, CA

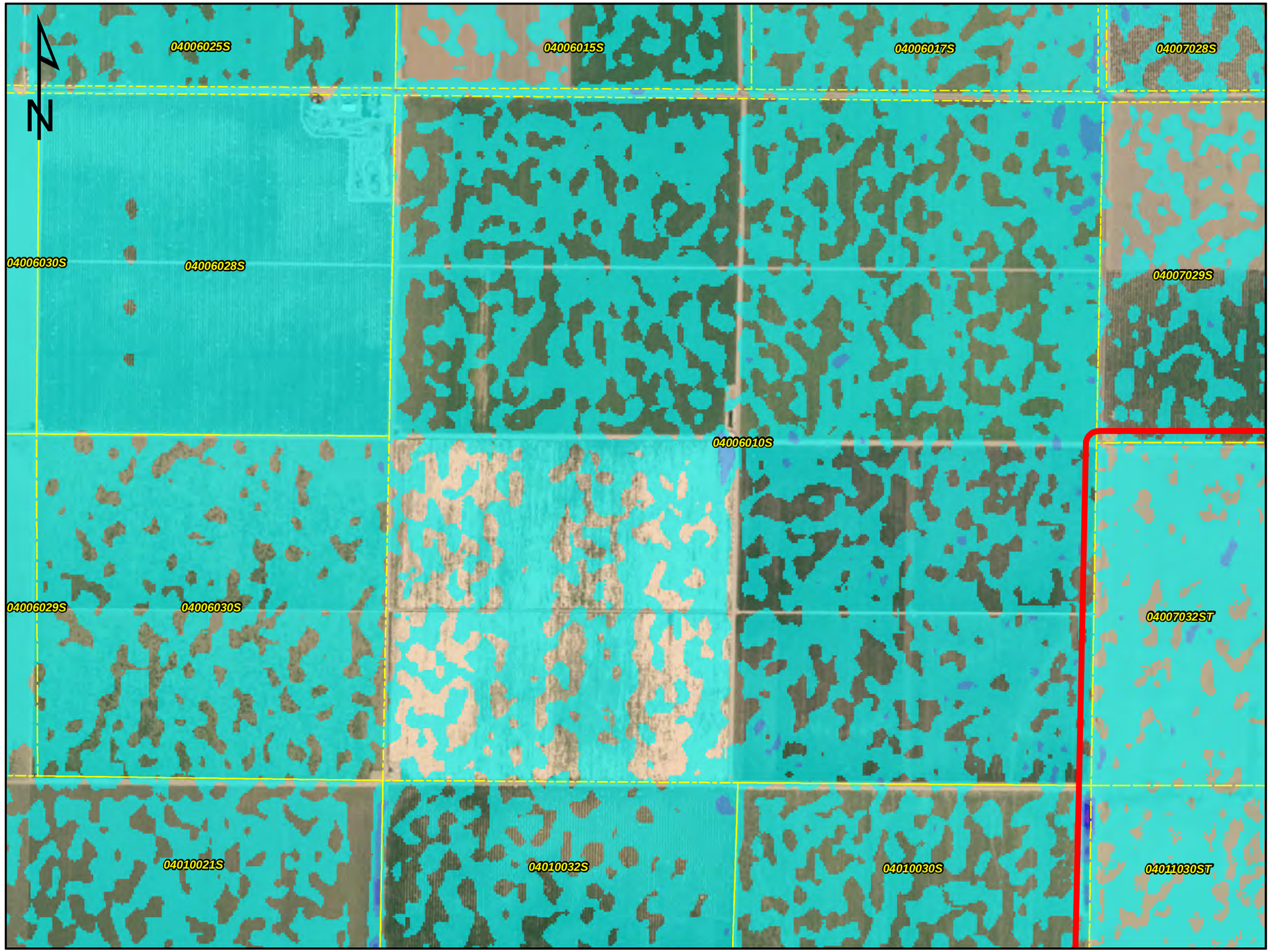
DARDEN STUDY AREA
GRID INDEX

Map Produced: 10/10/2023

SCALE: 1 in = 5,000 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.:
STATE: CALIFORNIA	PAGE: 2 OF 30



GRID INDEX



Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: A1
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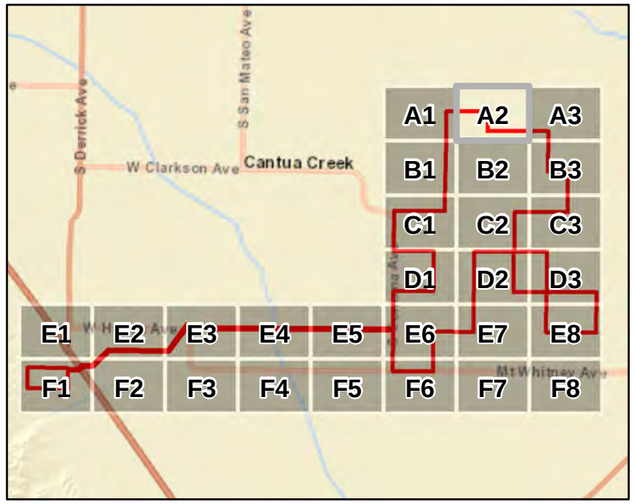
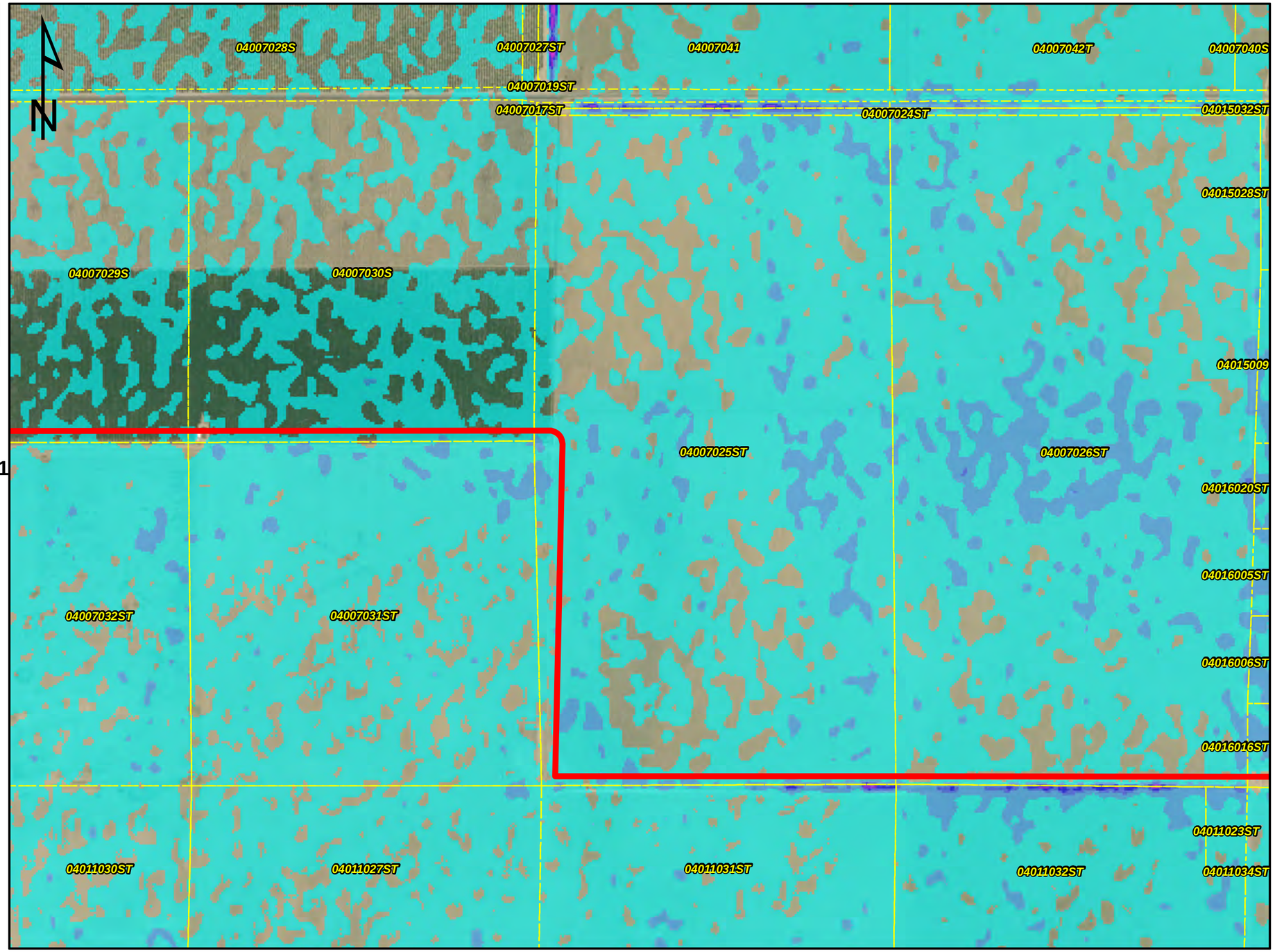


GRID INDEX



Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
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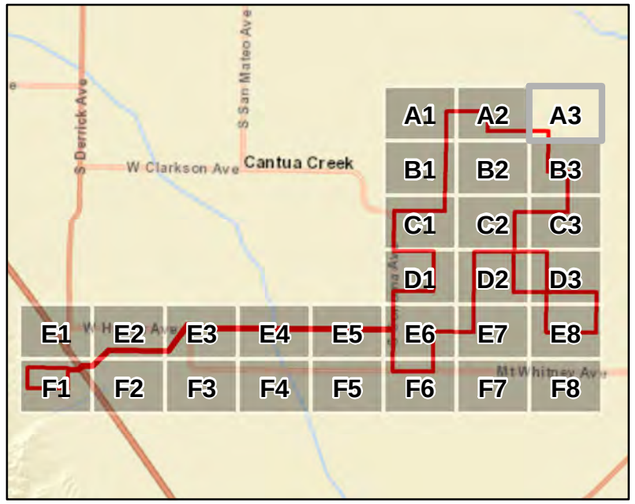
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: A2
STATE: CALIFORNIA	PAGE: 4 OF 30



GRID INDEX

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
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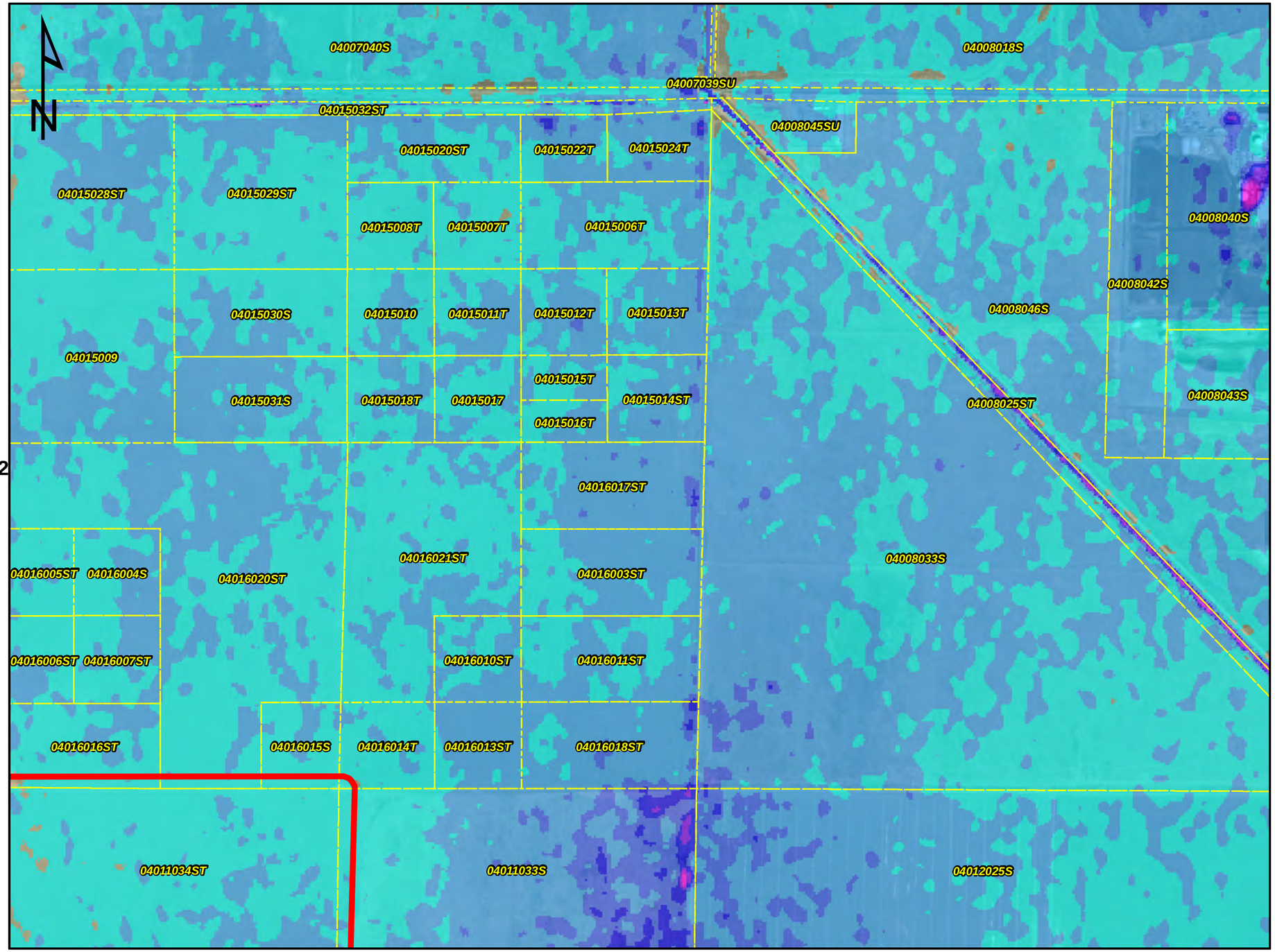
0 400 800 1,600 Feet



Intersect Power	**UPPER DRY SUB-BASIN DARDEN STUDY AREA FRESNO COUNTY, CA**	*THIS DOCUMENT CONTAINS PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT WRITTEN PRIOR APPROVAL OF INTERSECT POWER, INC.*	**Darden Maximum Flood Depth Classification 500 Year - 24 Hour Storm (0.2% Annual Chance)** Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: A3
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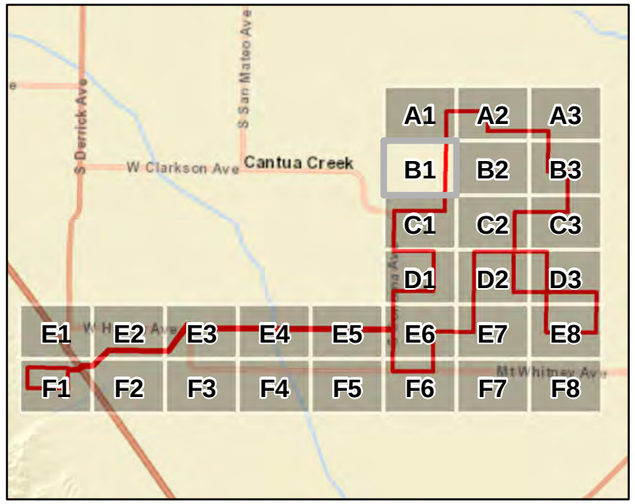

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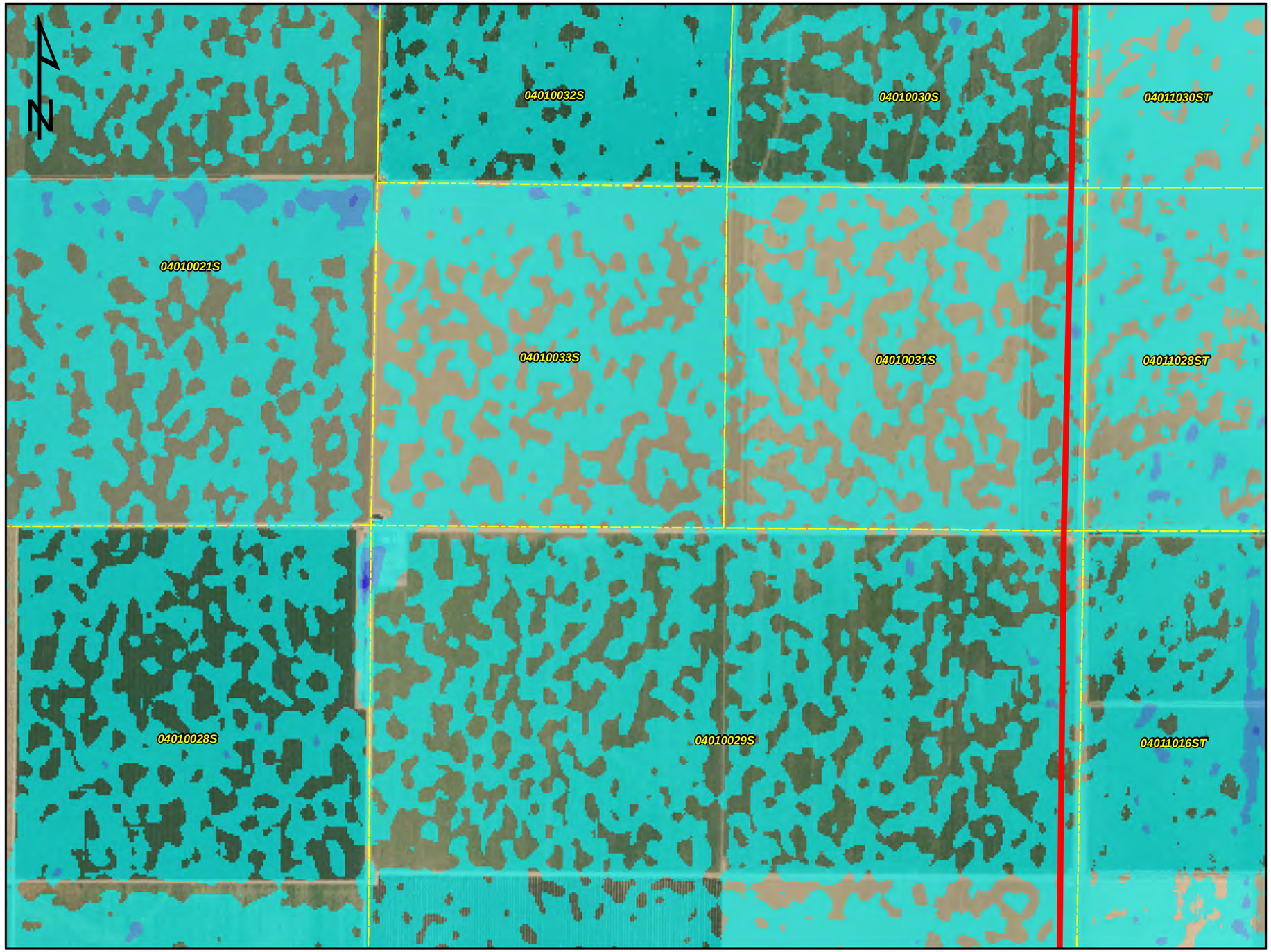

B2

C1

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
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Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: B1
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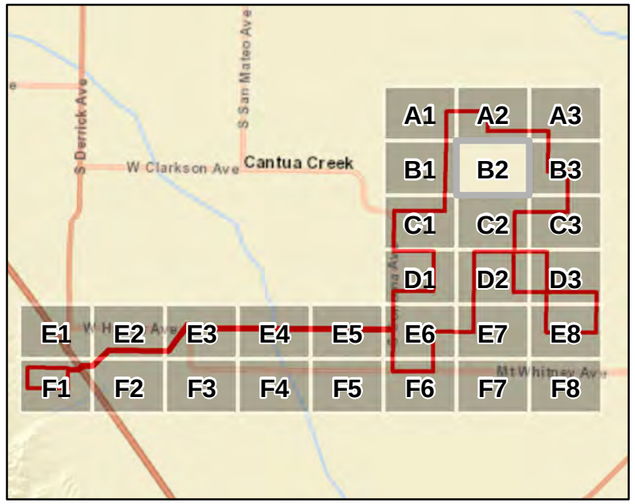

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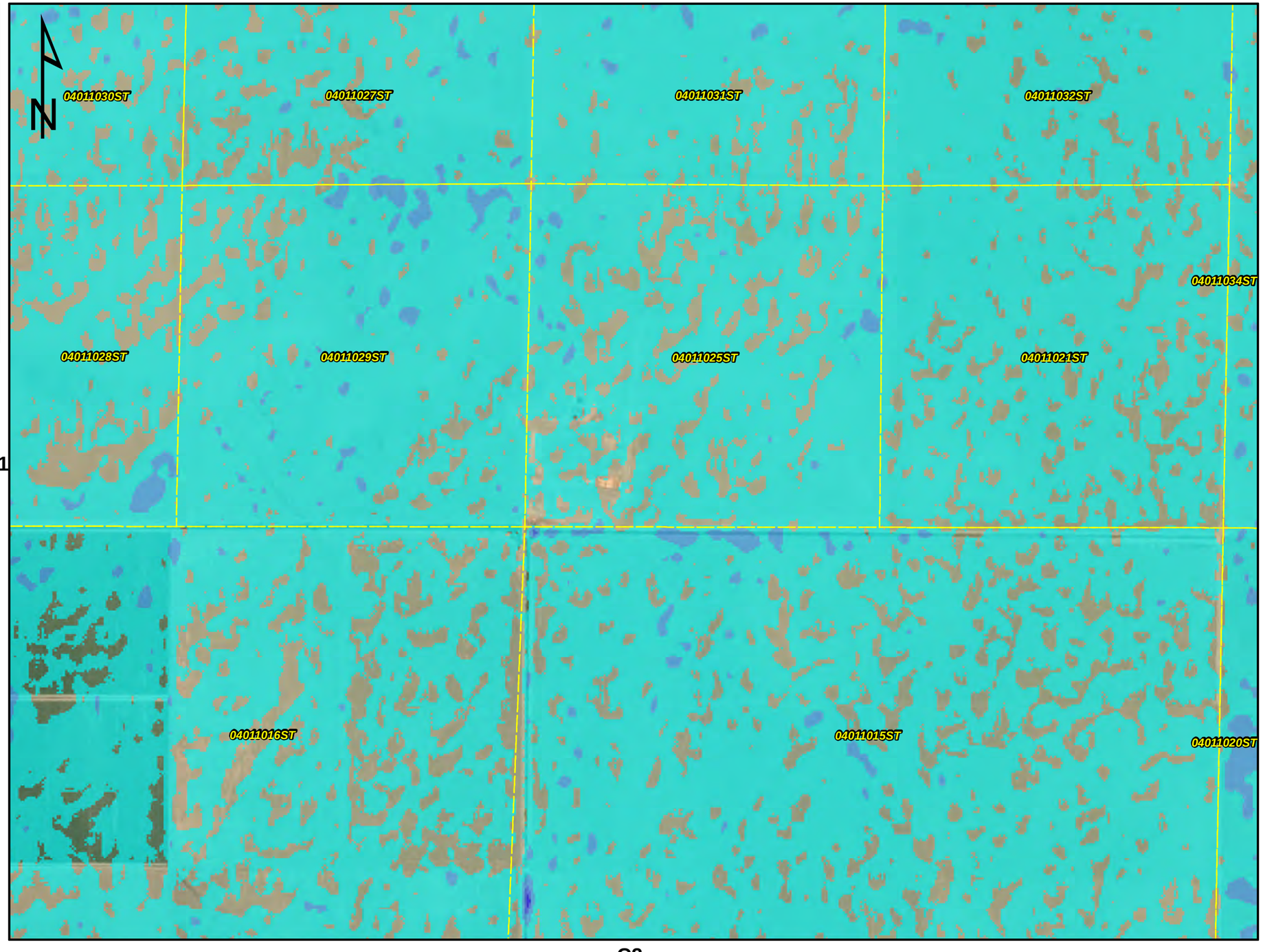

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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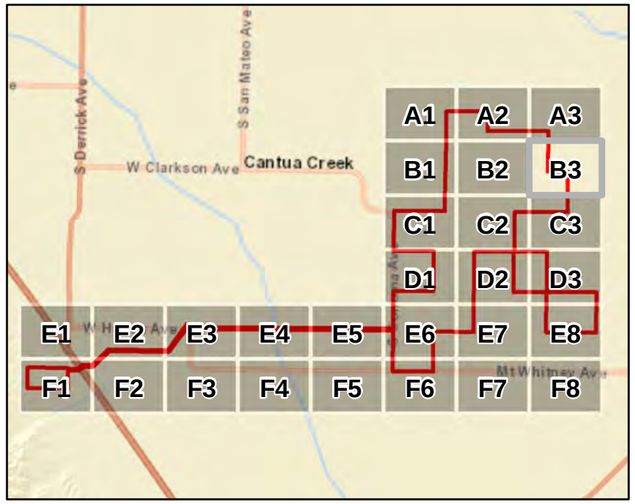

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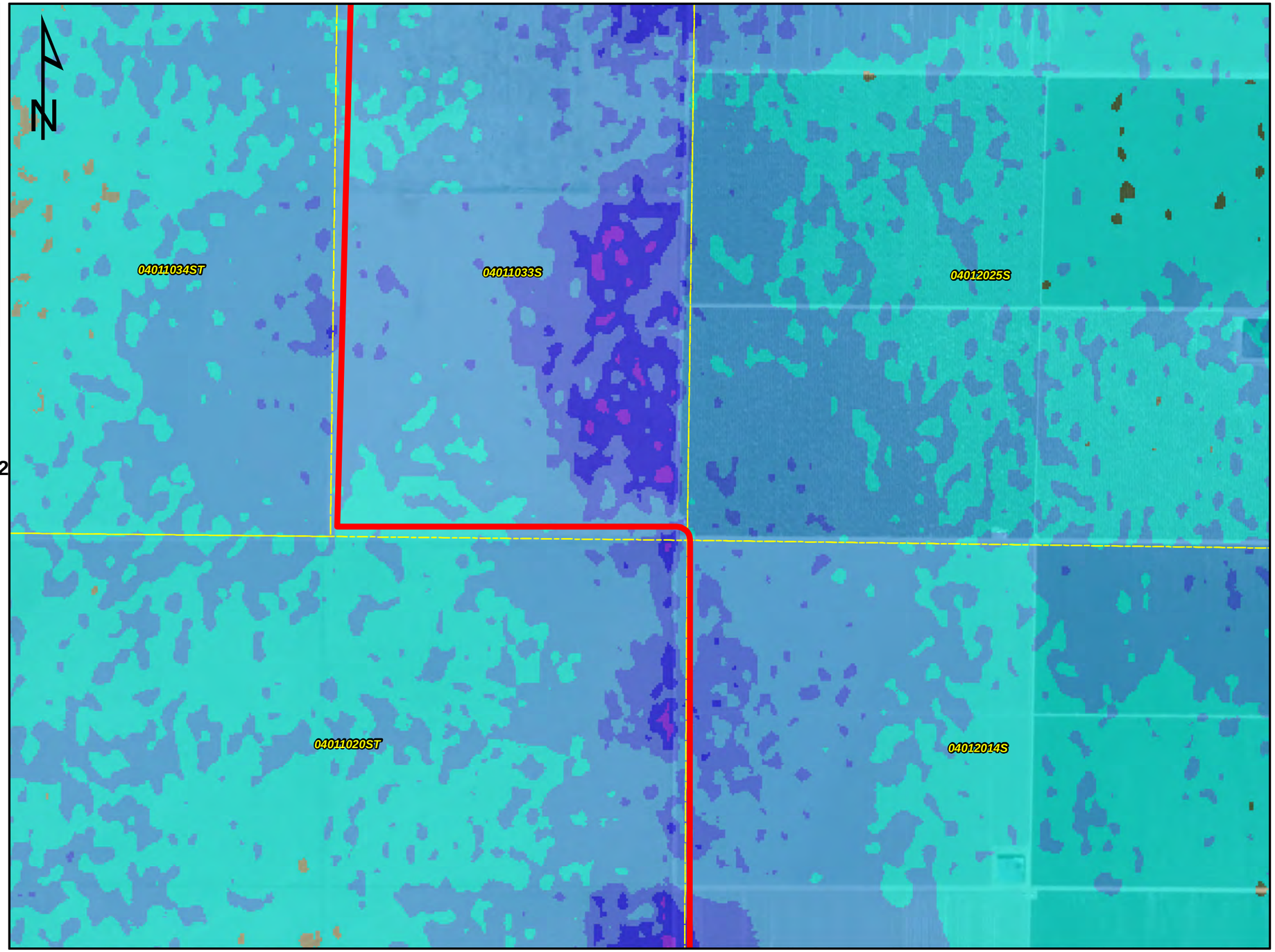

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: B3
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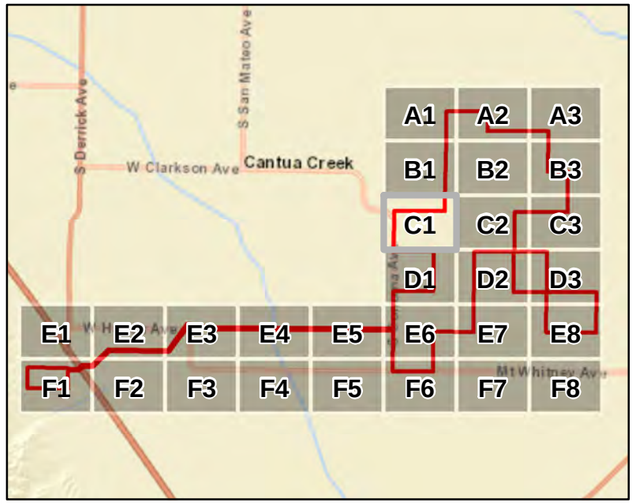

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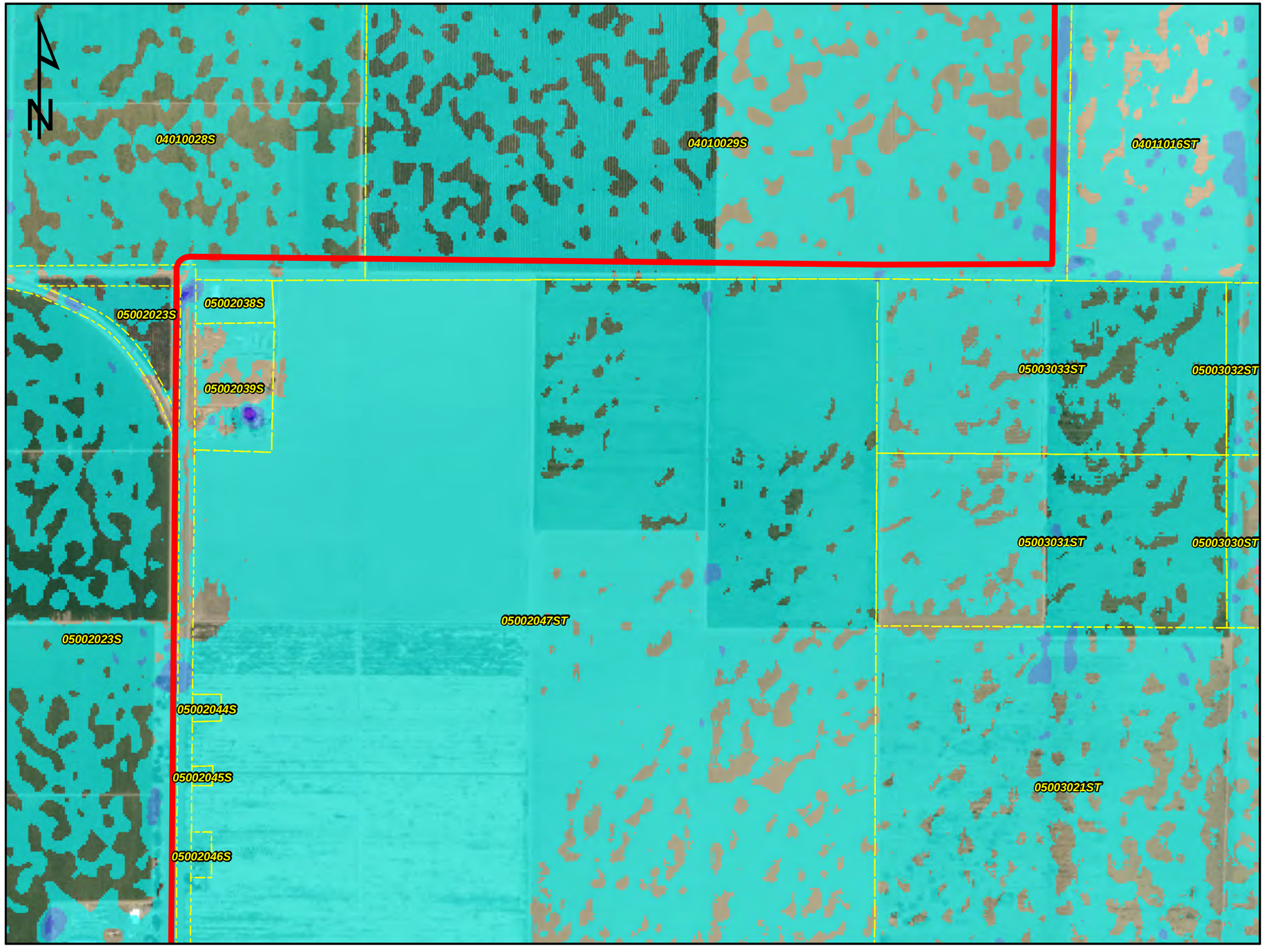

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- 0.0 - 1.0
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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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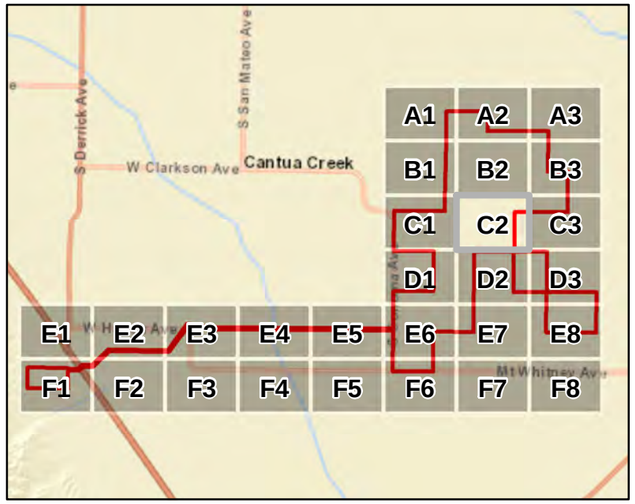

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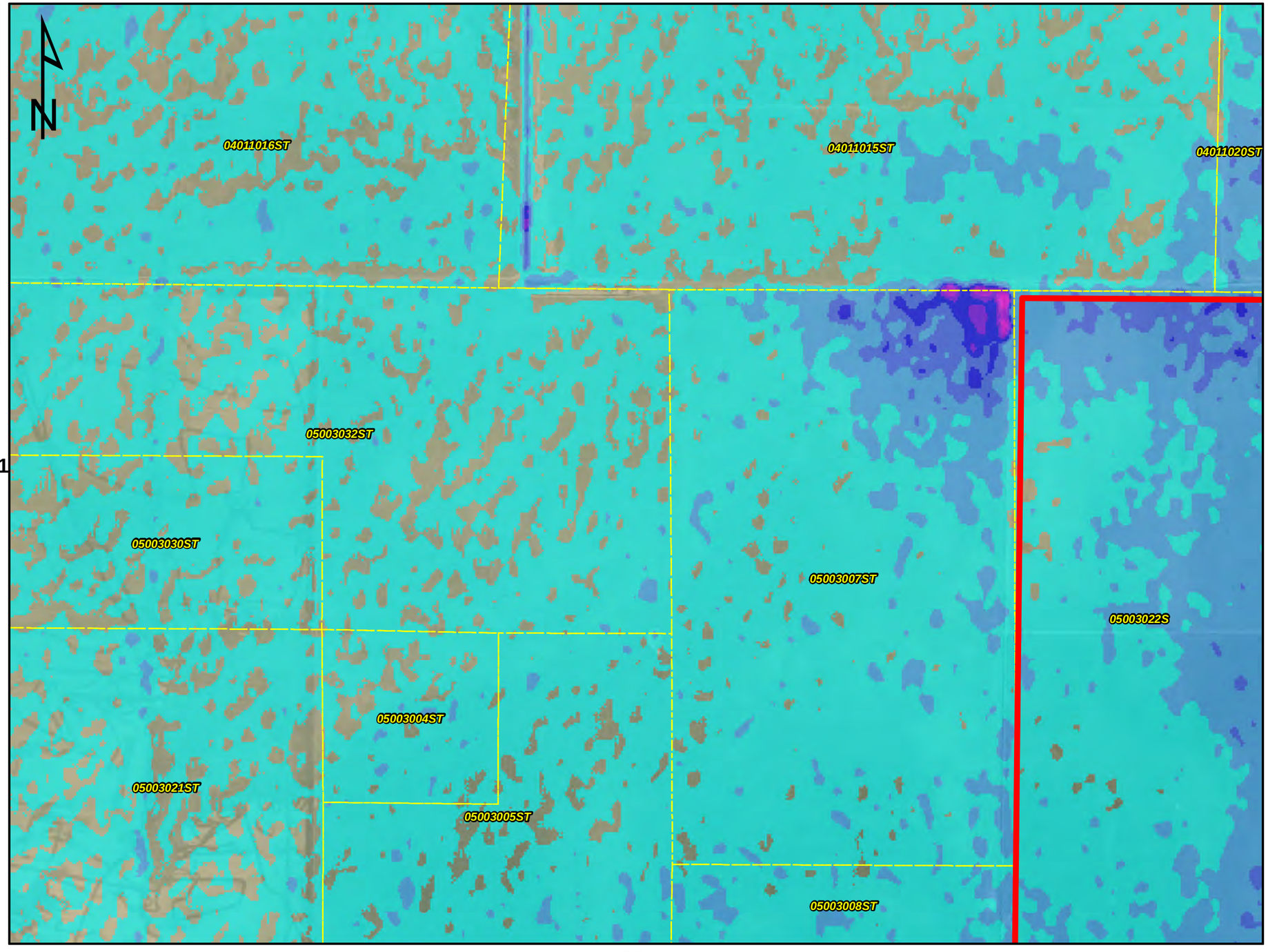

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
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- 2.1 - 2.5
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Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
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Central Meridian: -119.0000
Standard Parallel 1: 36.0000
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Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

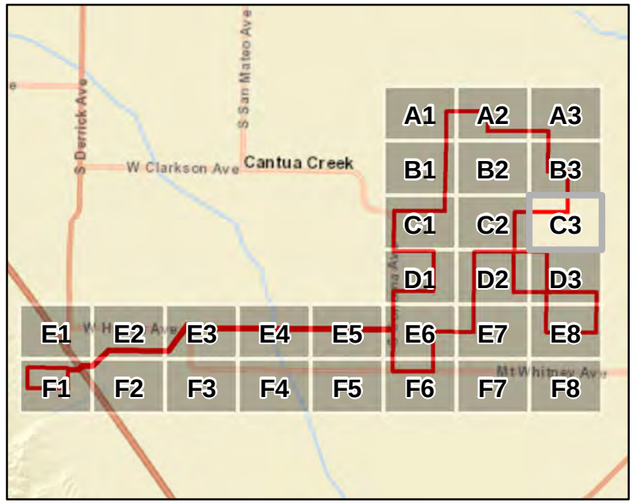
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: C2
STATE: CALIFORNIA	PAGE: 10 OF 30



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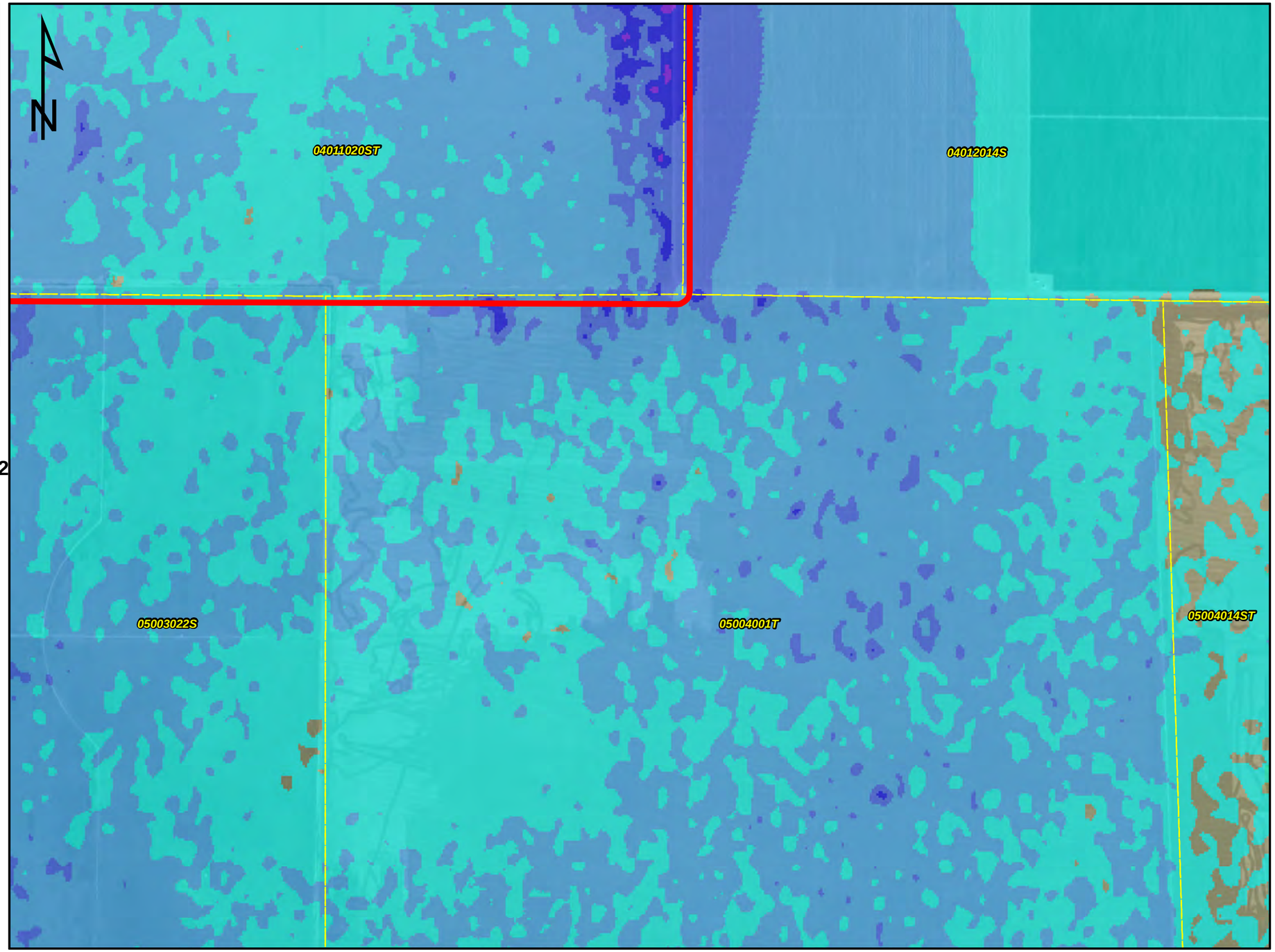

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: C3
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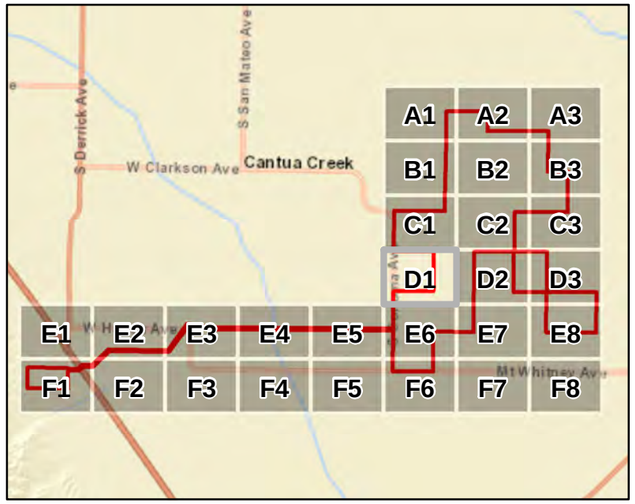

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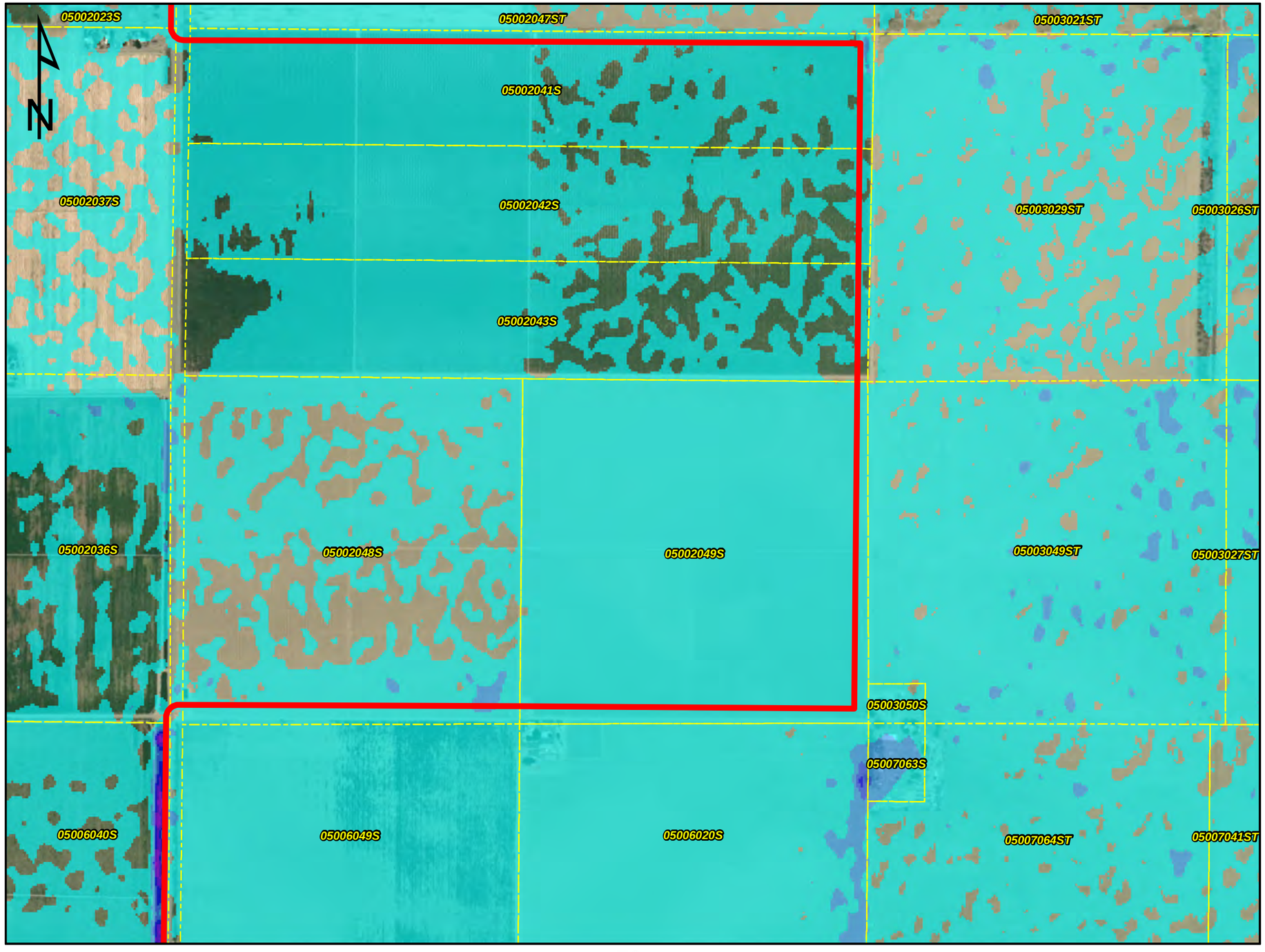

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
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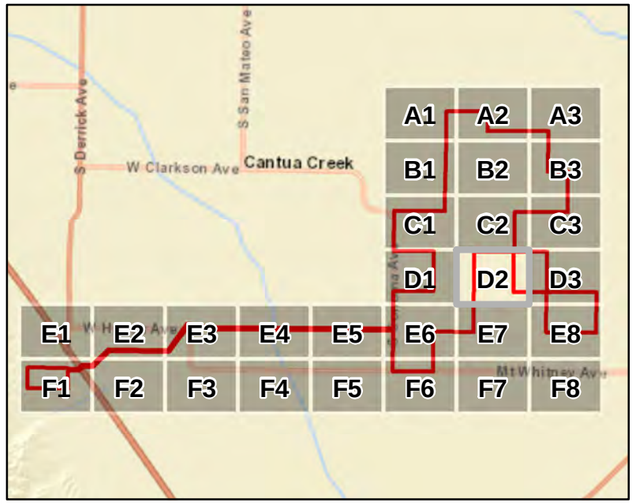
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: D1
STATE: CALIFORNIA	PAGE: 12 OF 30



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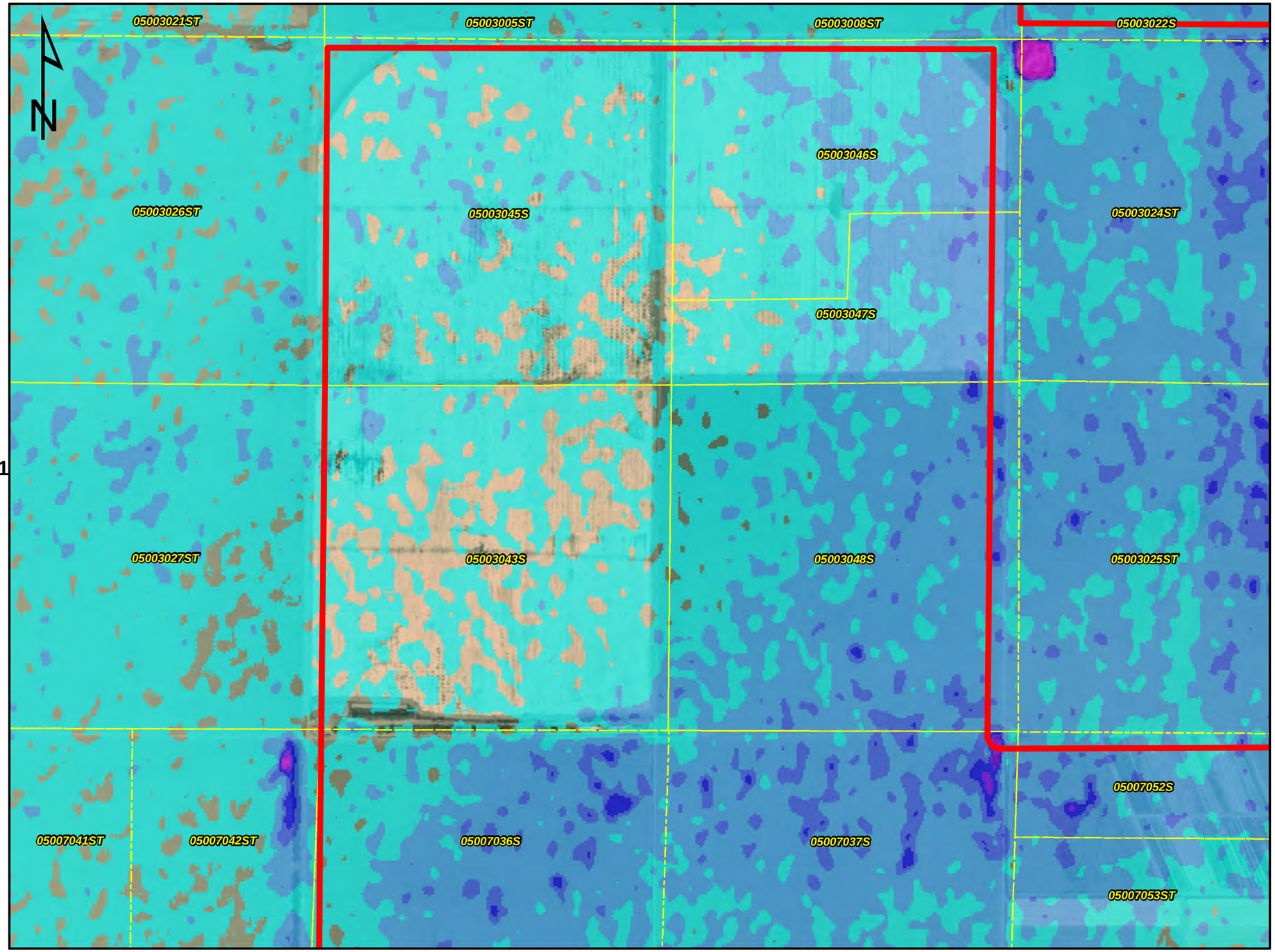

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
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- 2.1 - 2.5
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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: D2
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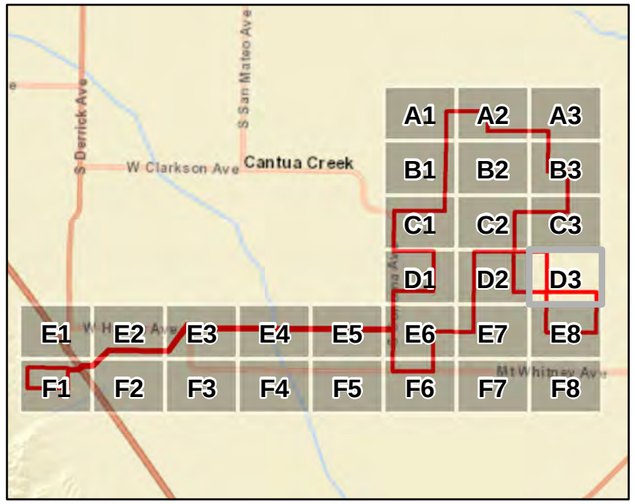

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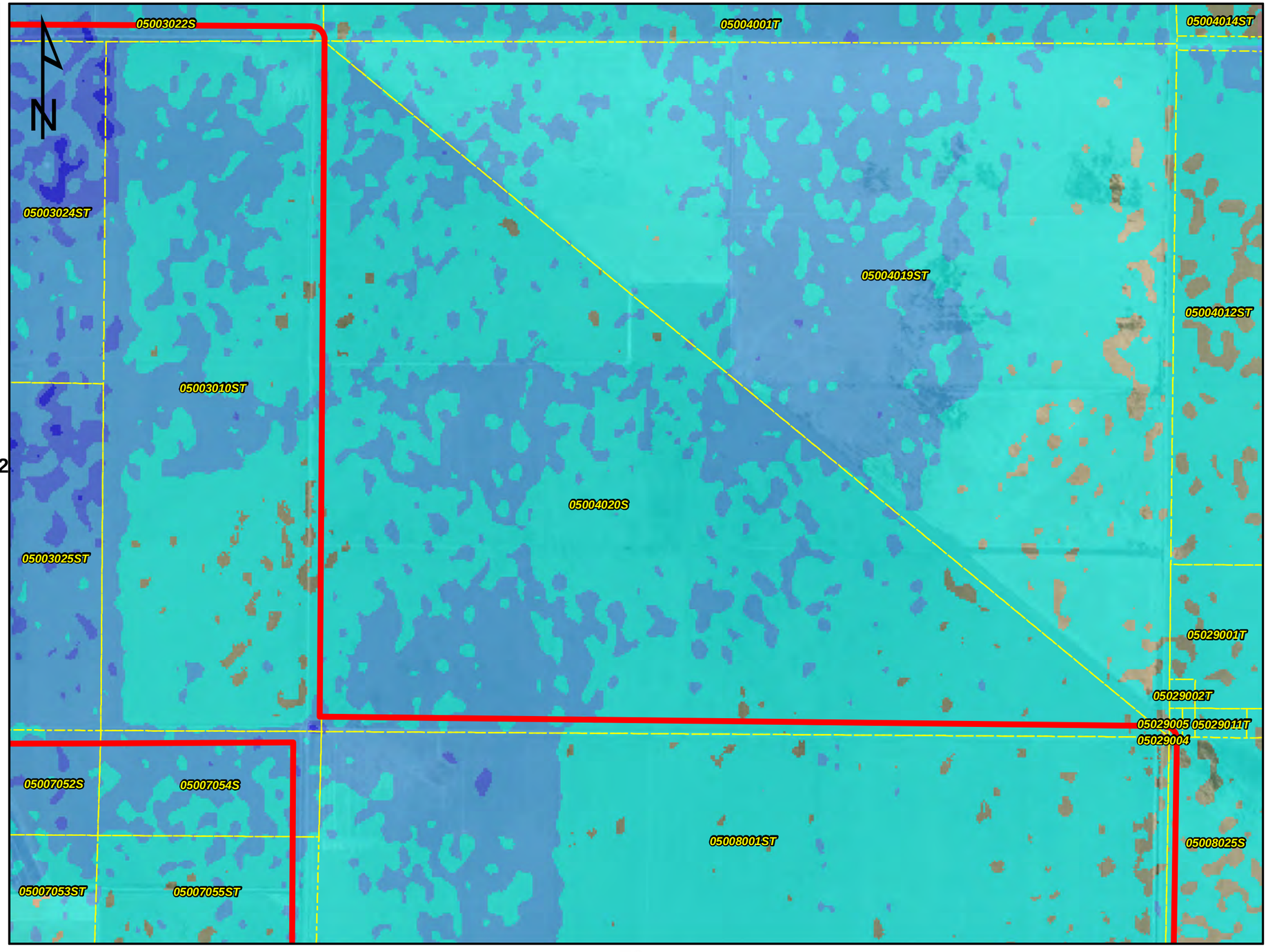

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
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Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: D3
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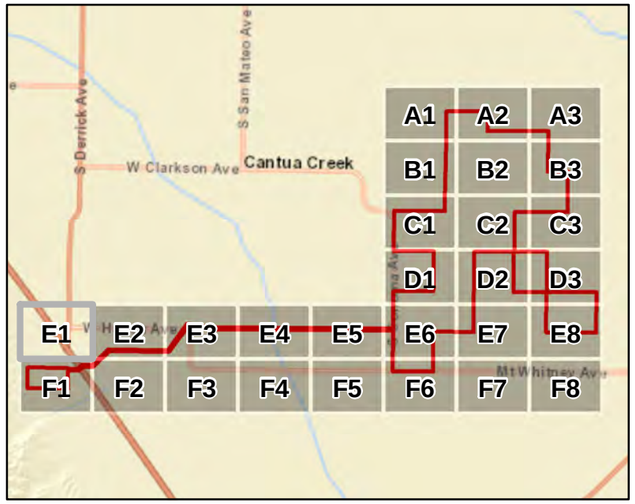

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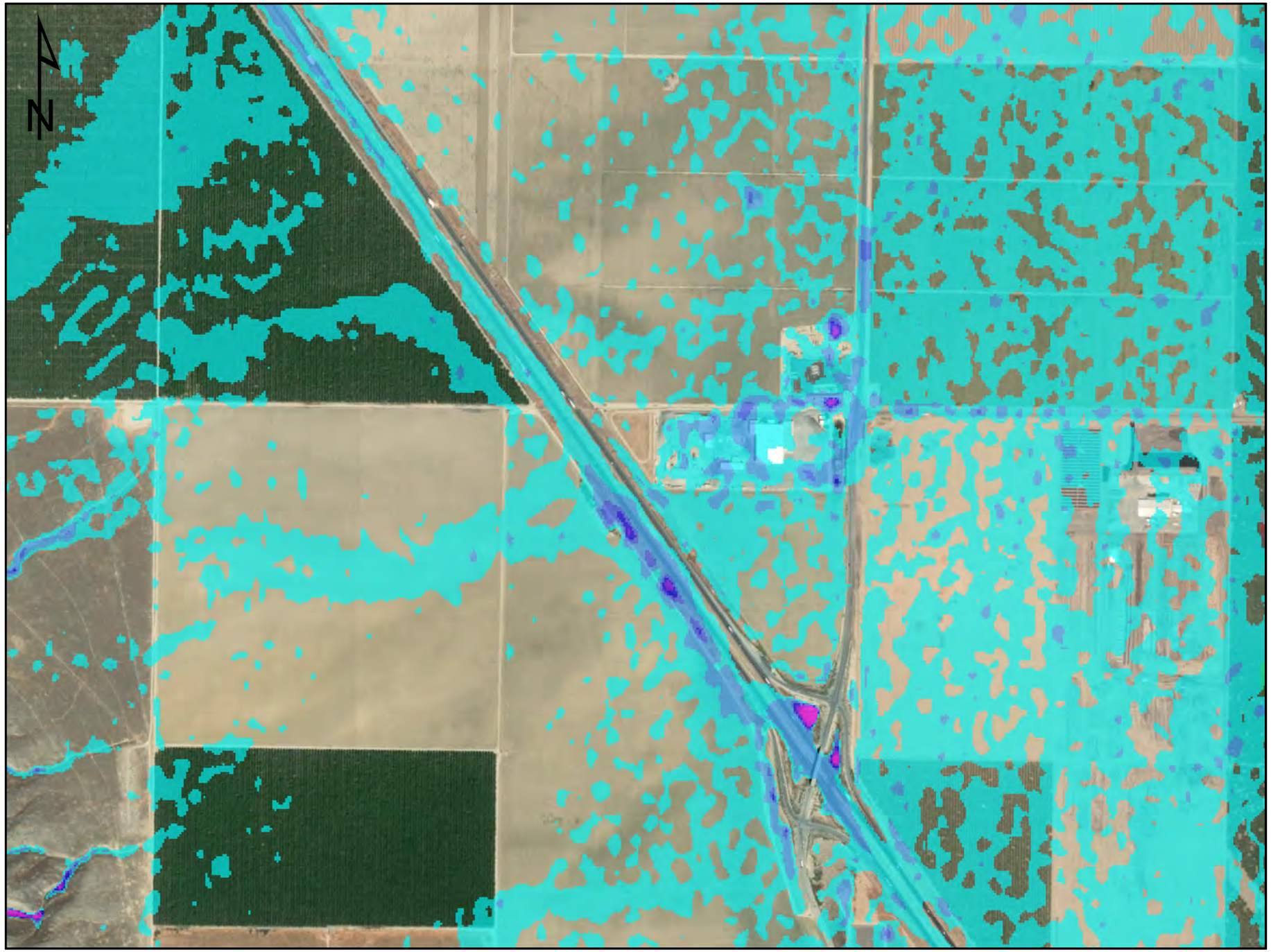

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: E1
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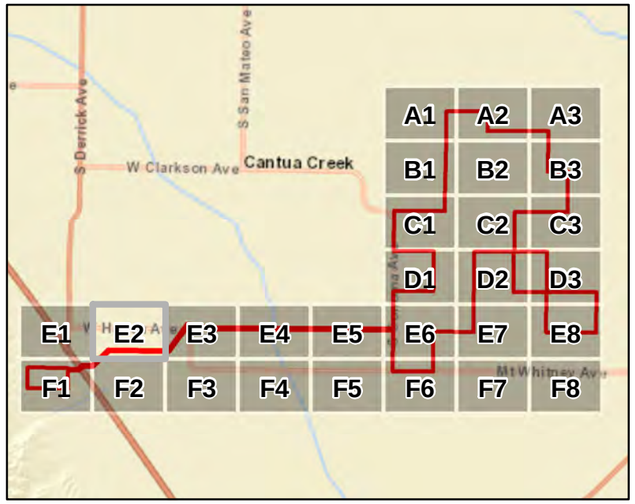

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Legend

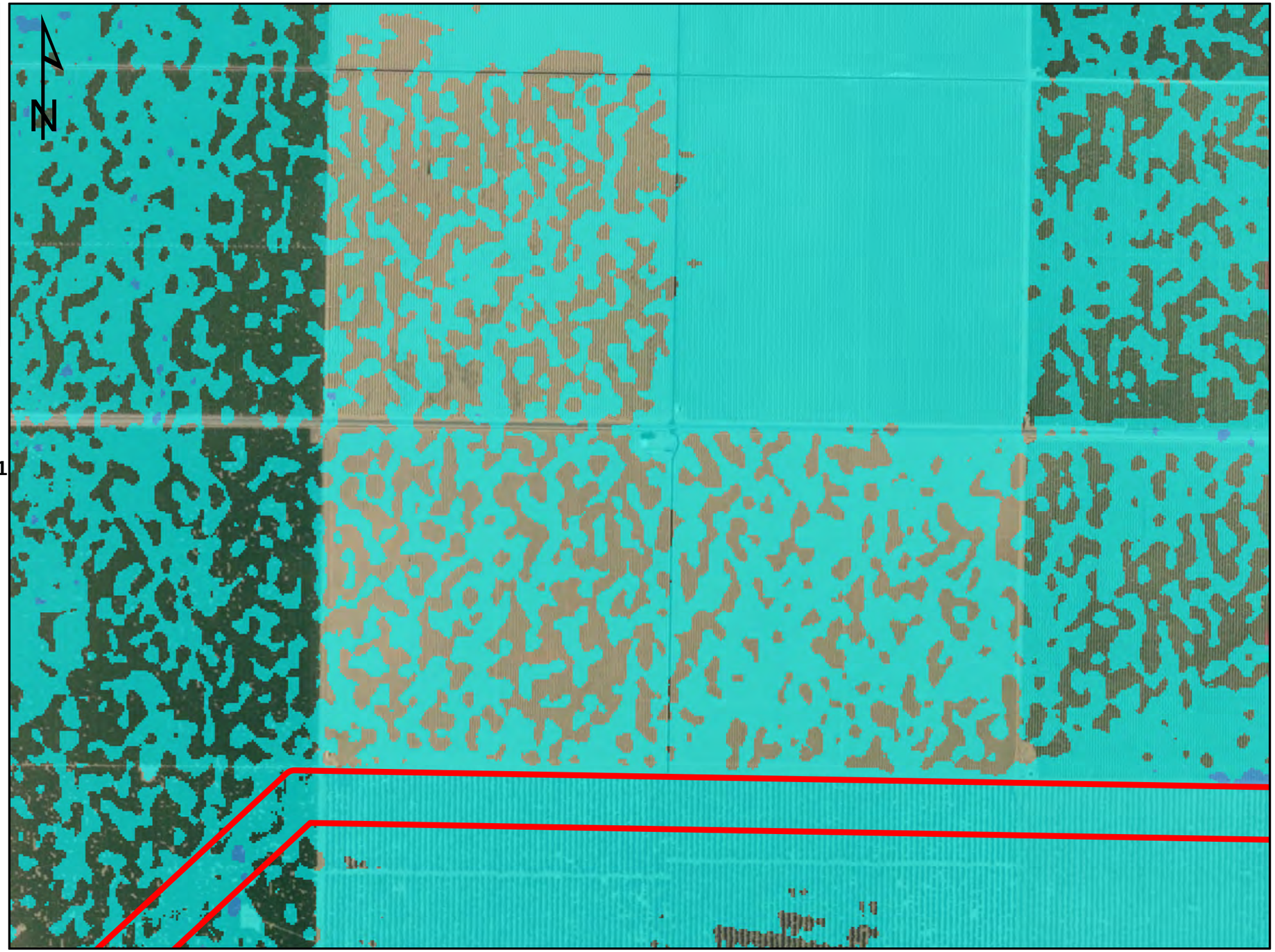
- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet



Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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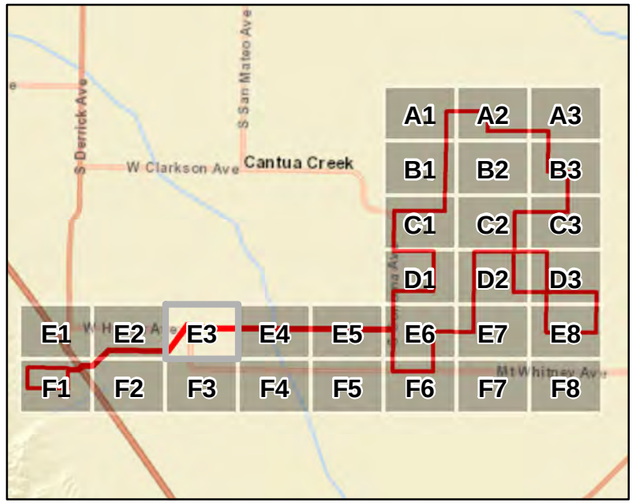

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Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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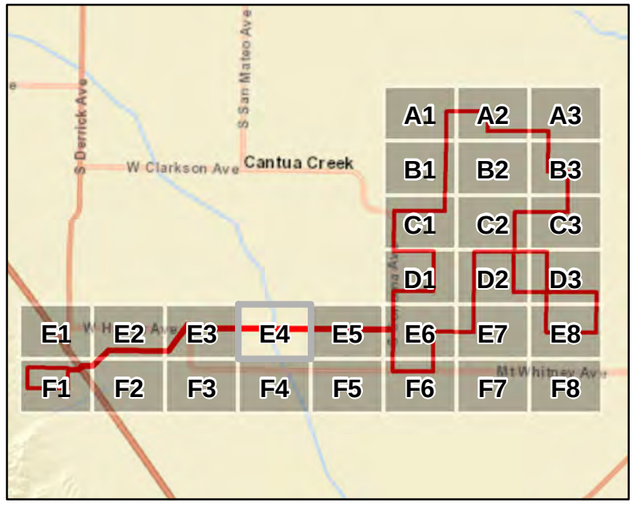


GRID INDEX

Legend

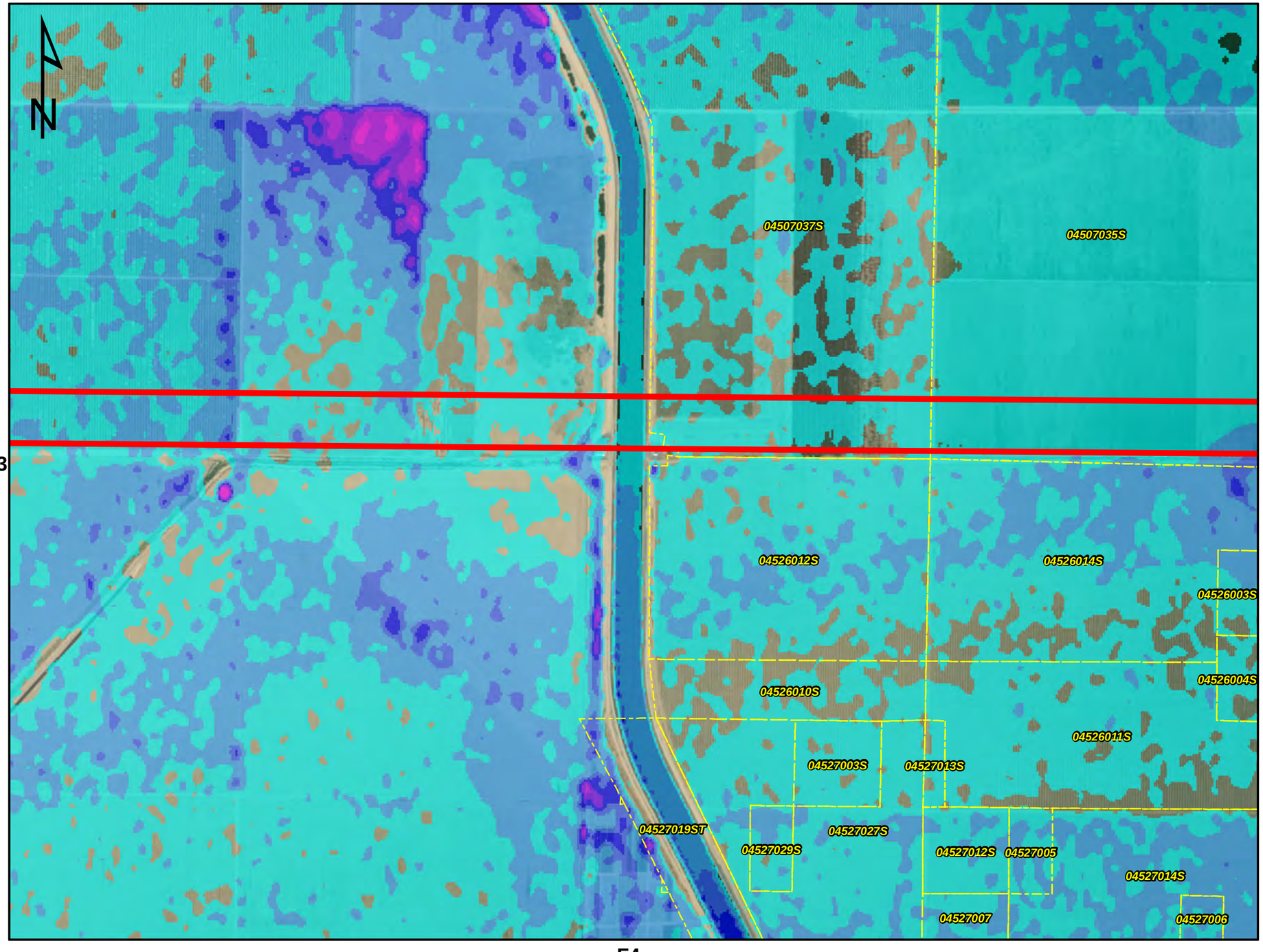
- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet



Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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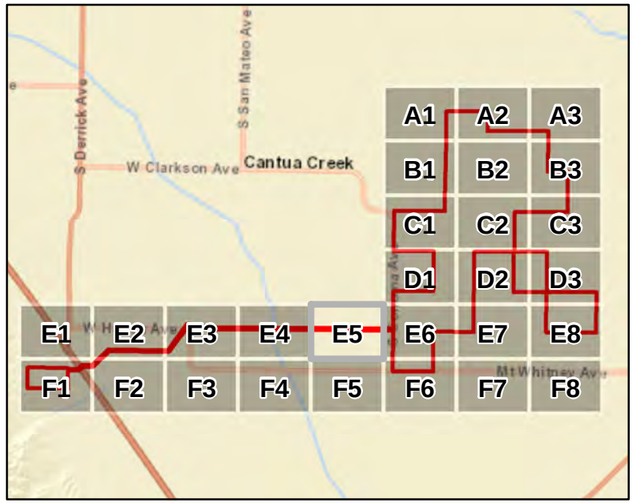

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Legend

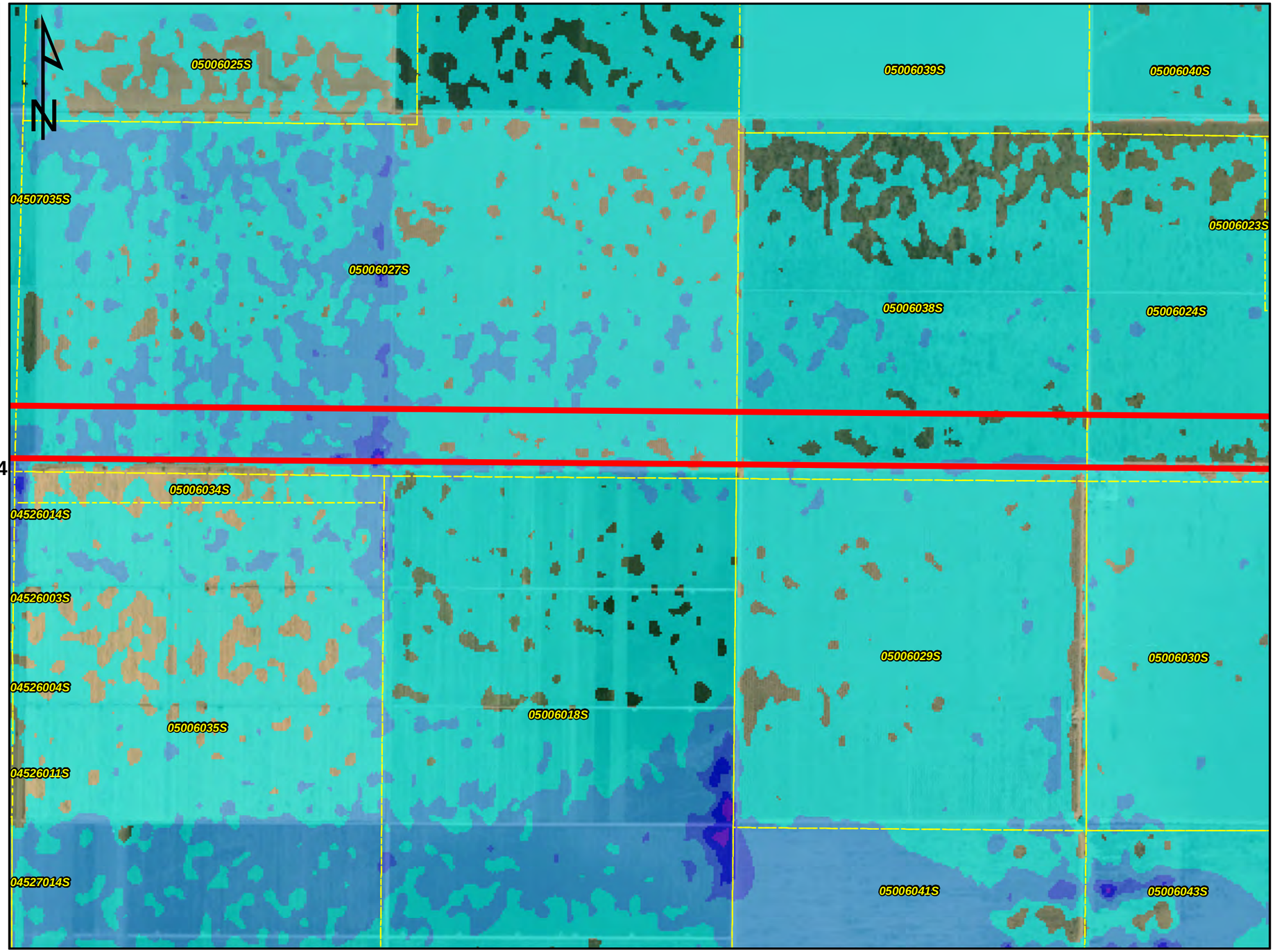
- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet



Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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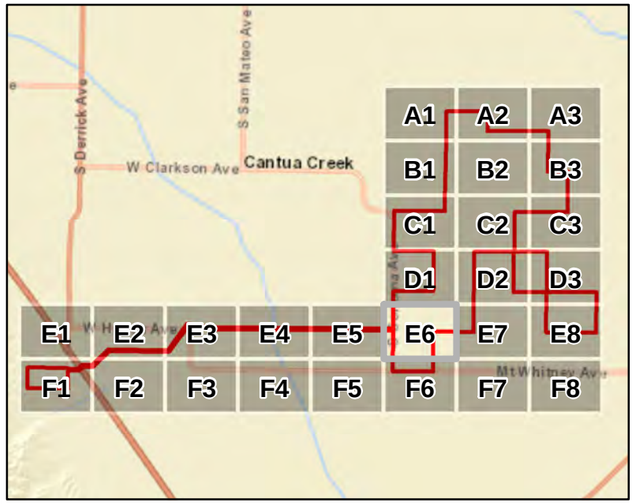

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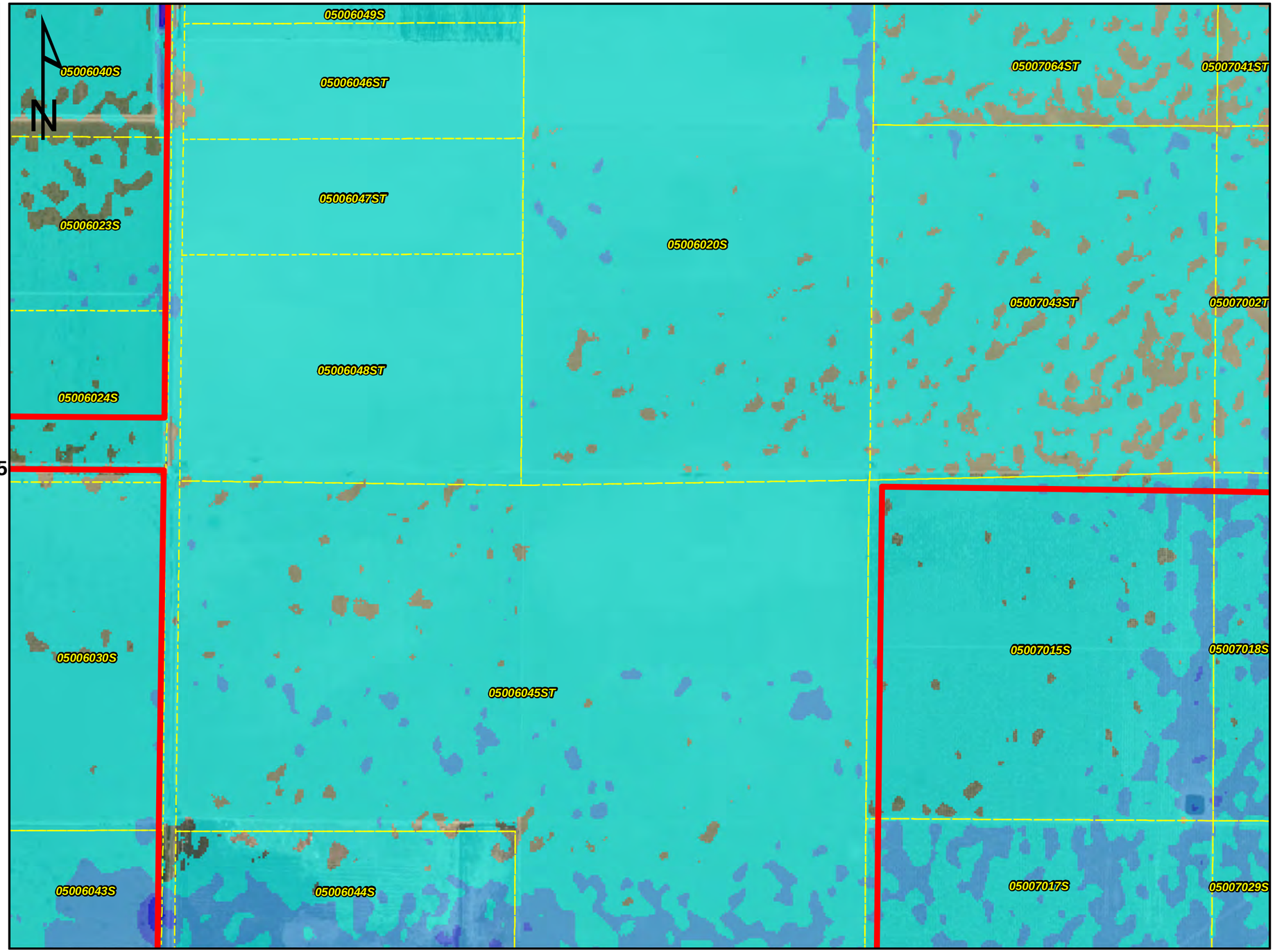

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Map Produced: 10/10/2023

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

SCALE: 1 in = 800 ft	BY: WRMA
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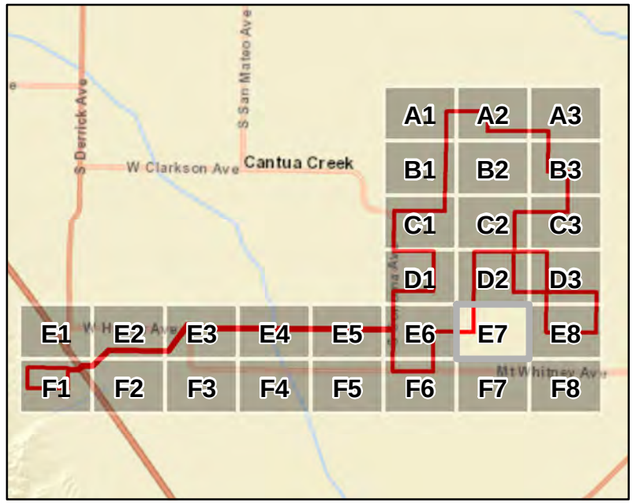

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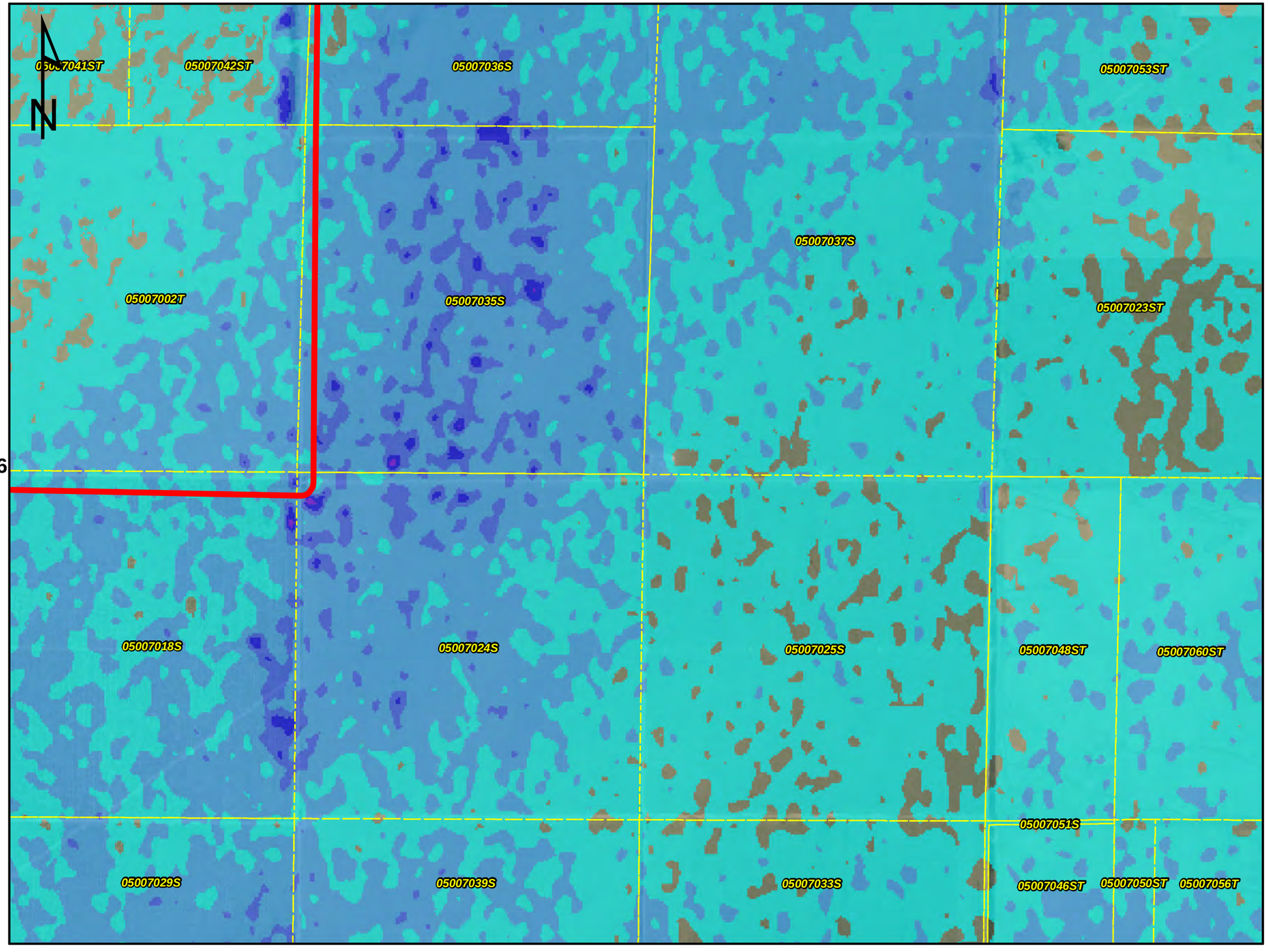

E6

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F7

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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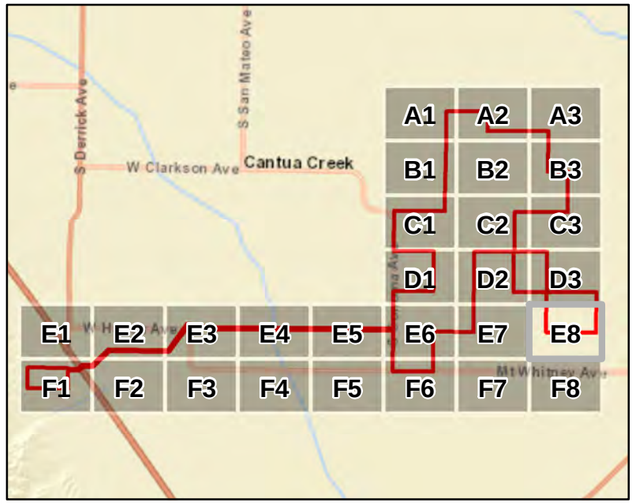

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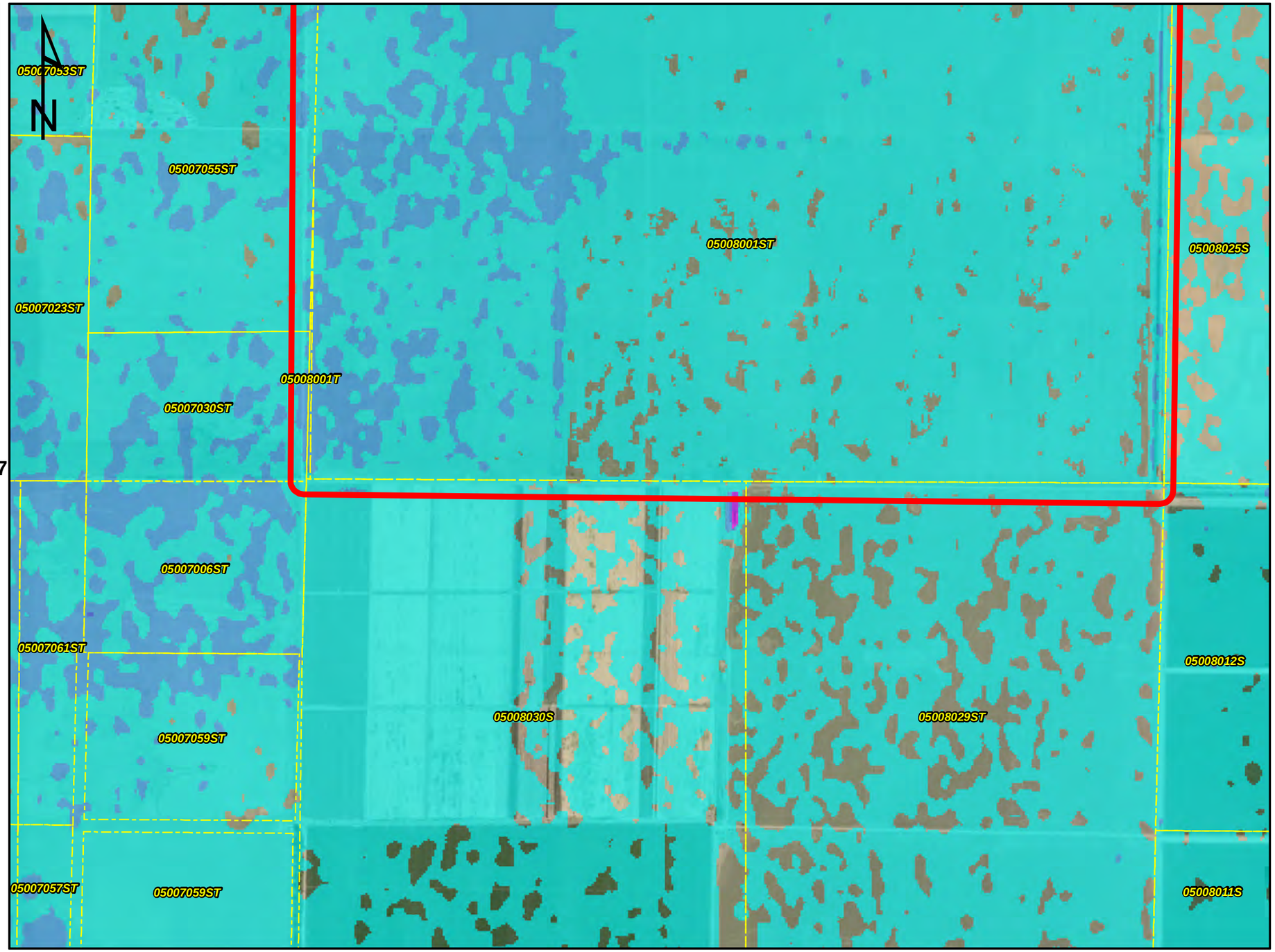

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
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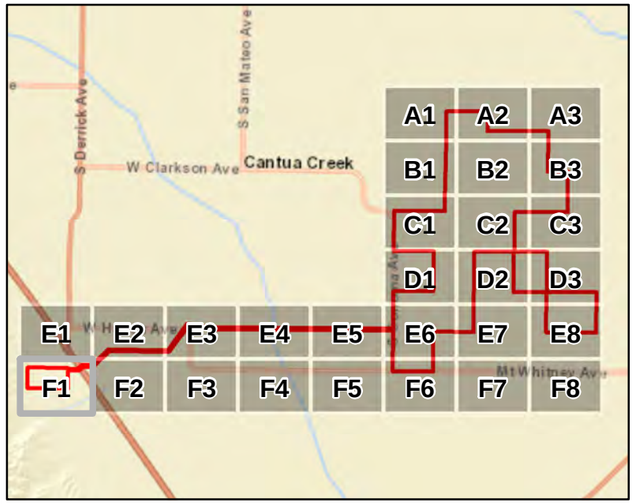

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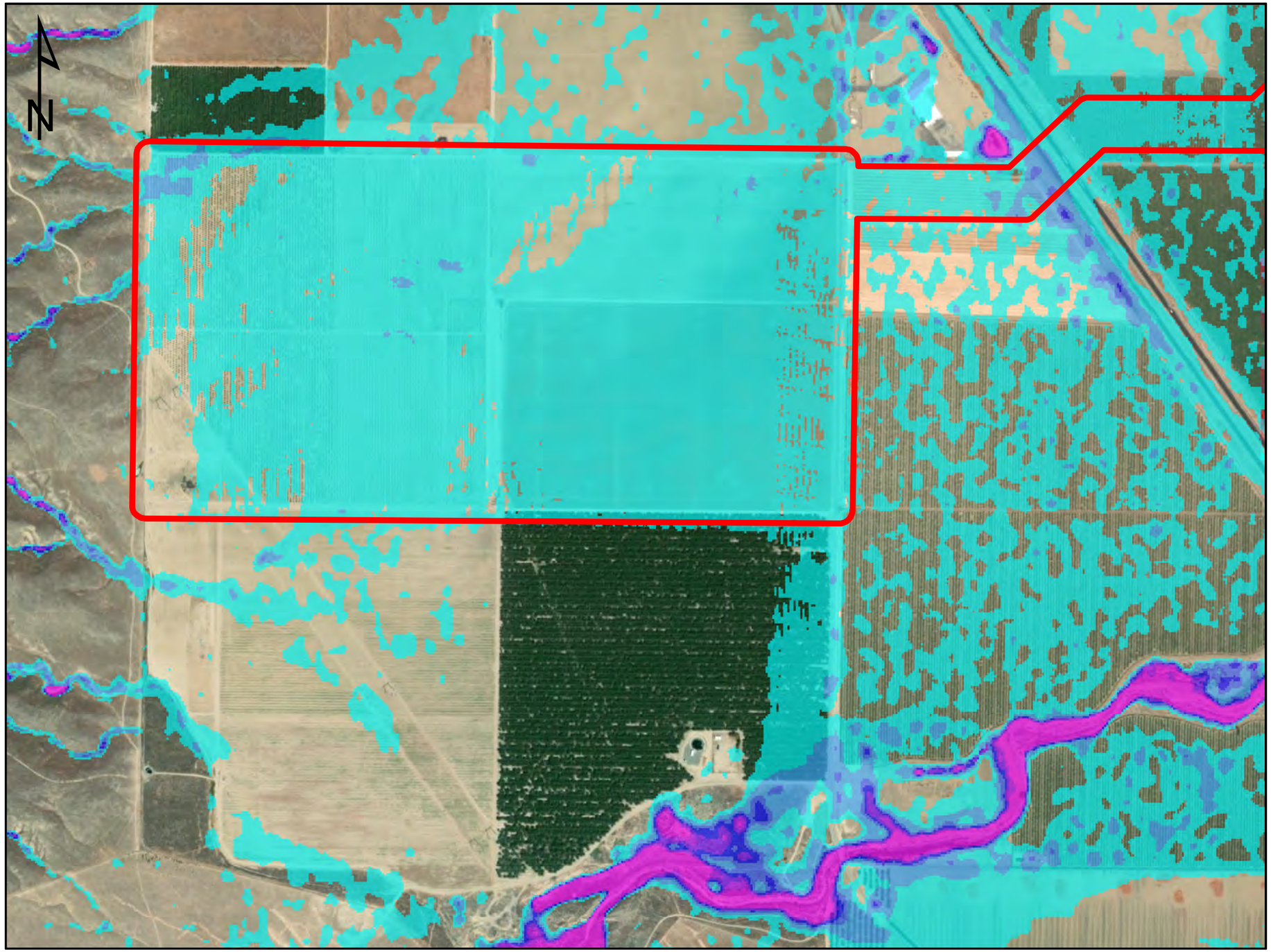


F2

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

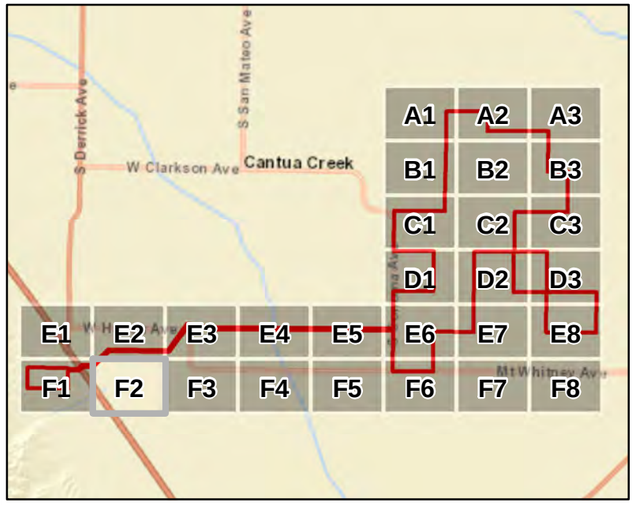
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Map Produced: 10/10/2023

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F1
STATE: CALIFORNIA	PAGE: 23 OF 30



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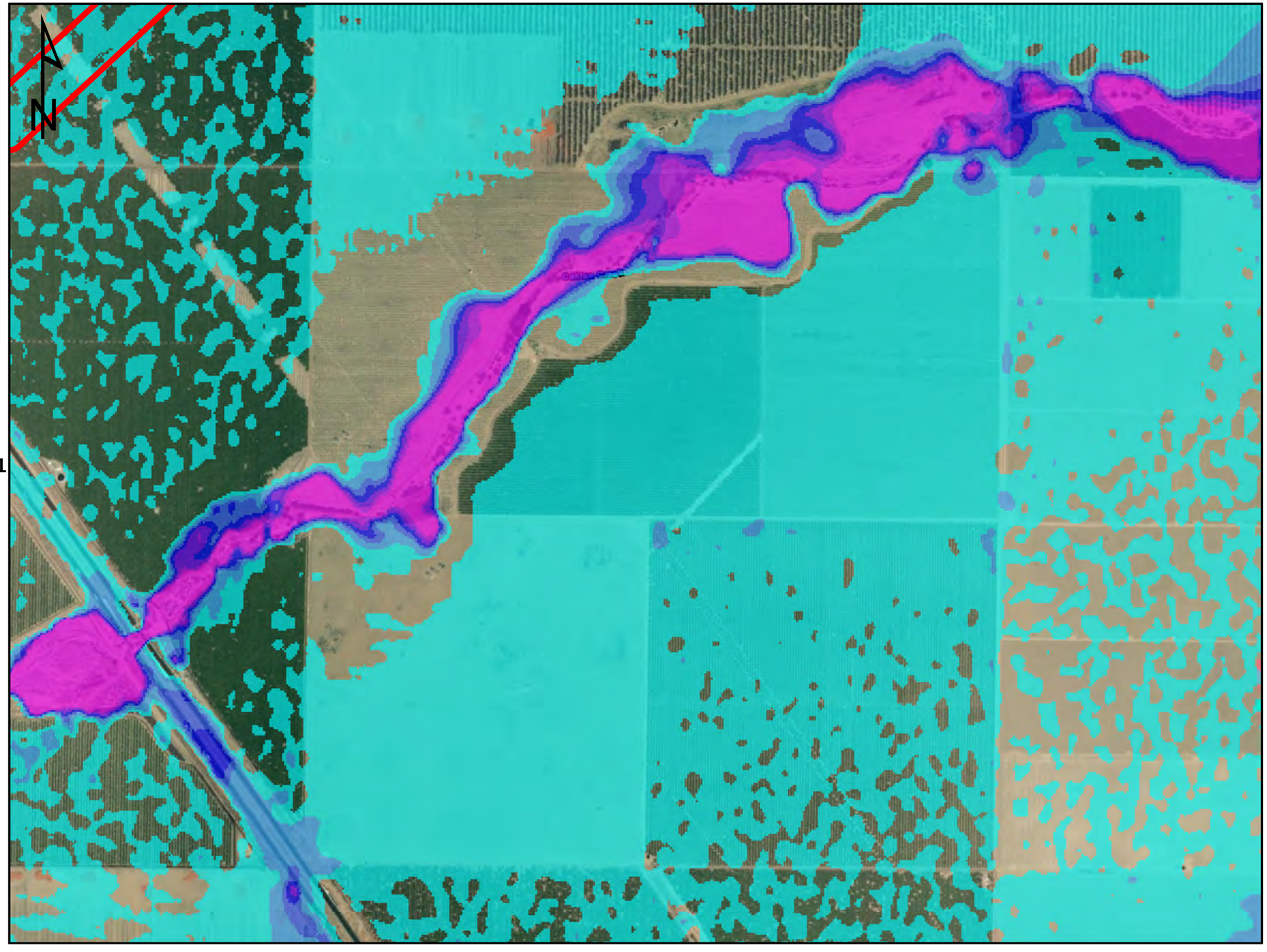

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
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Standard Parallel 1: 36.0000
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Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F2
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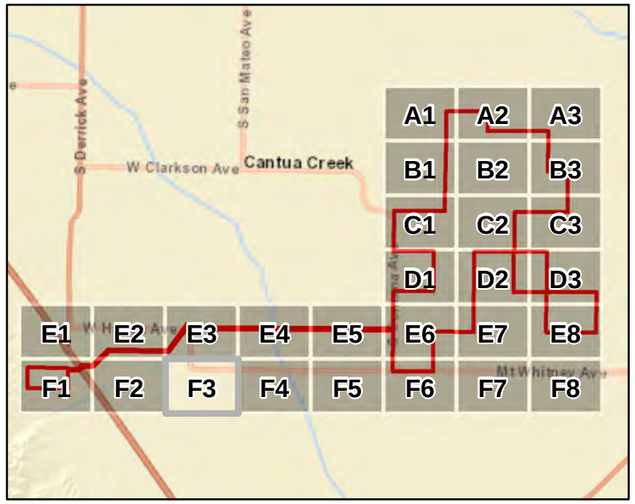

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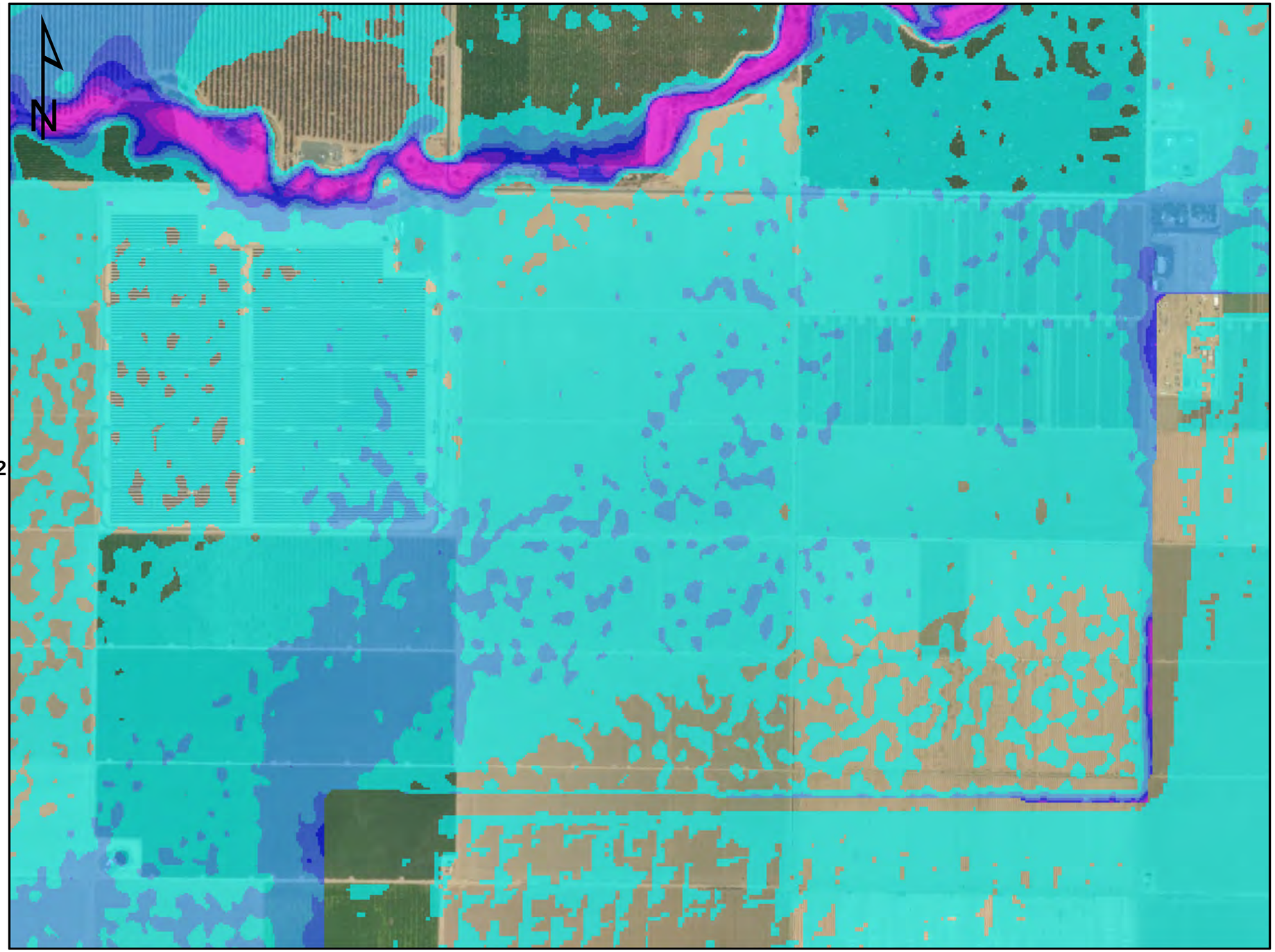

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
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Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F3
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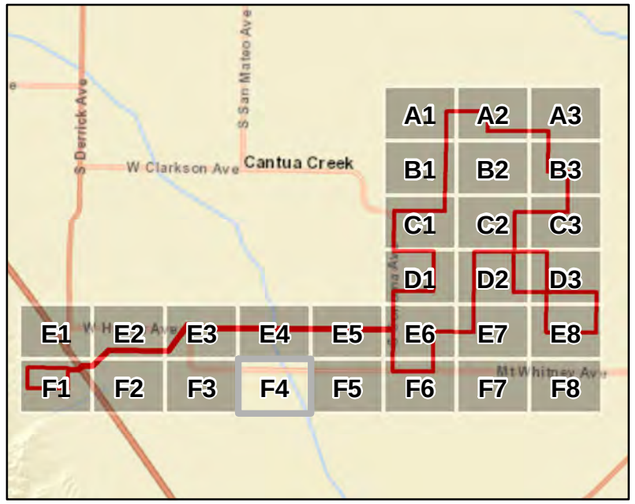

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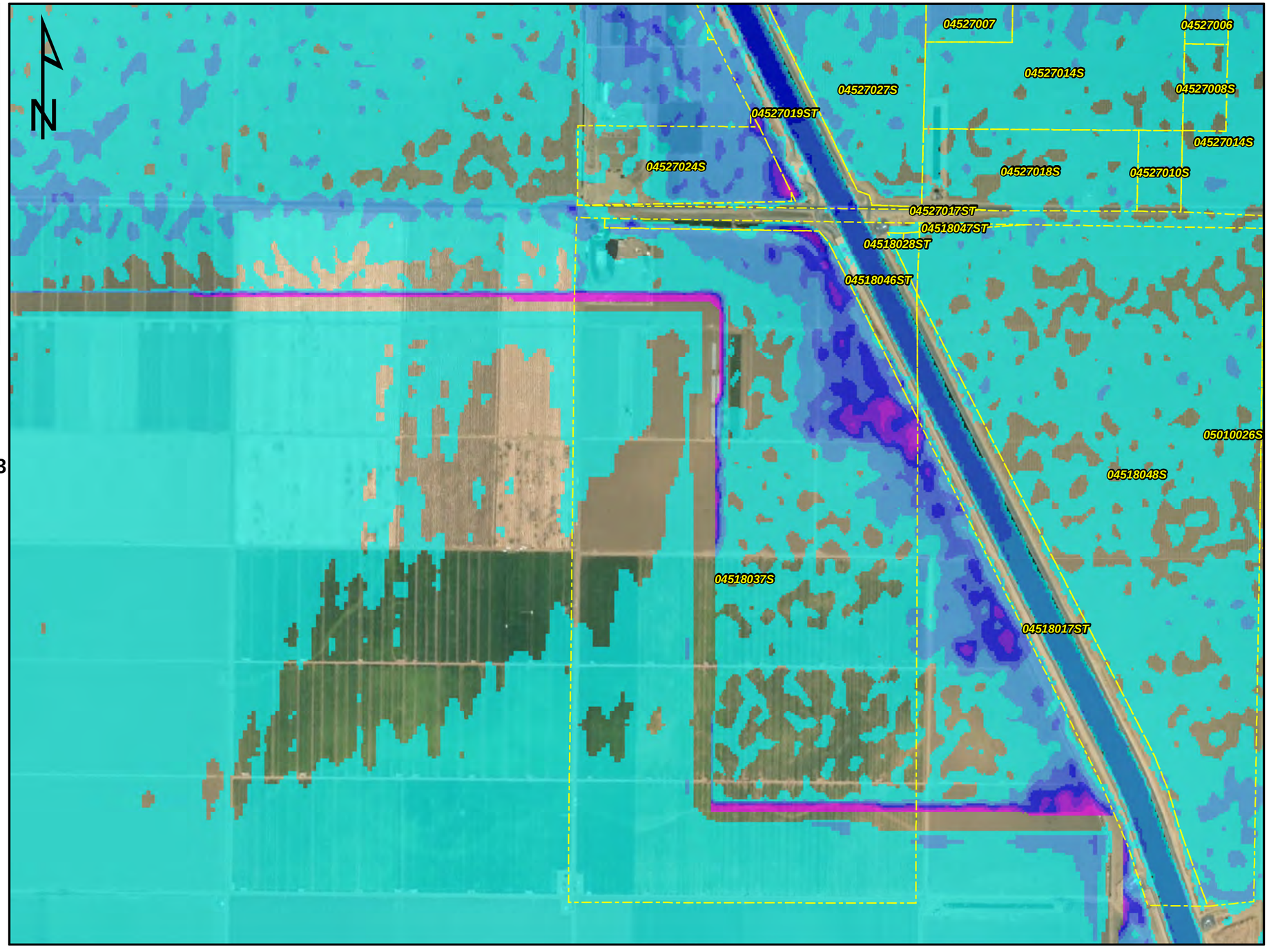

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
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0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F4
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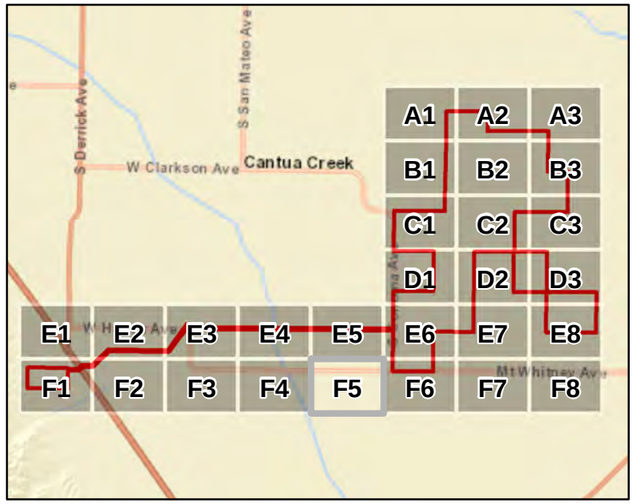

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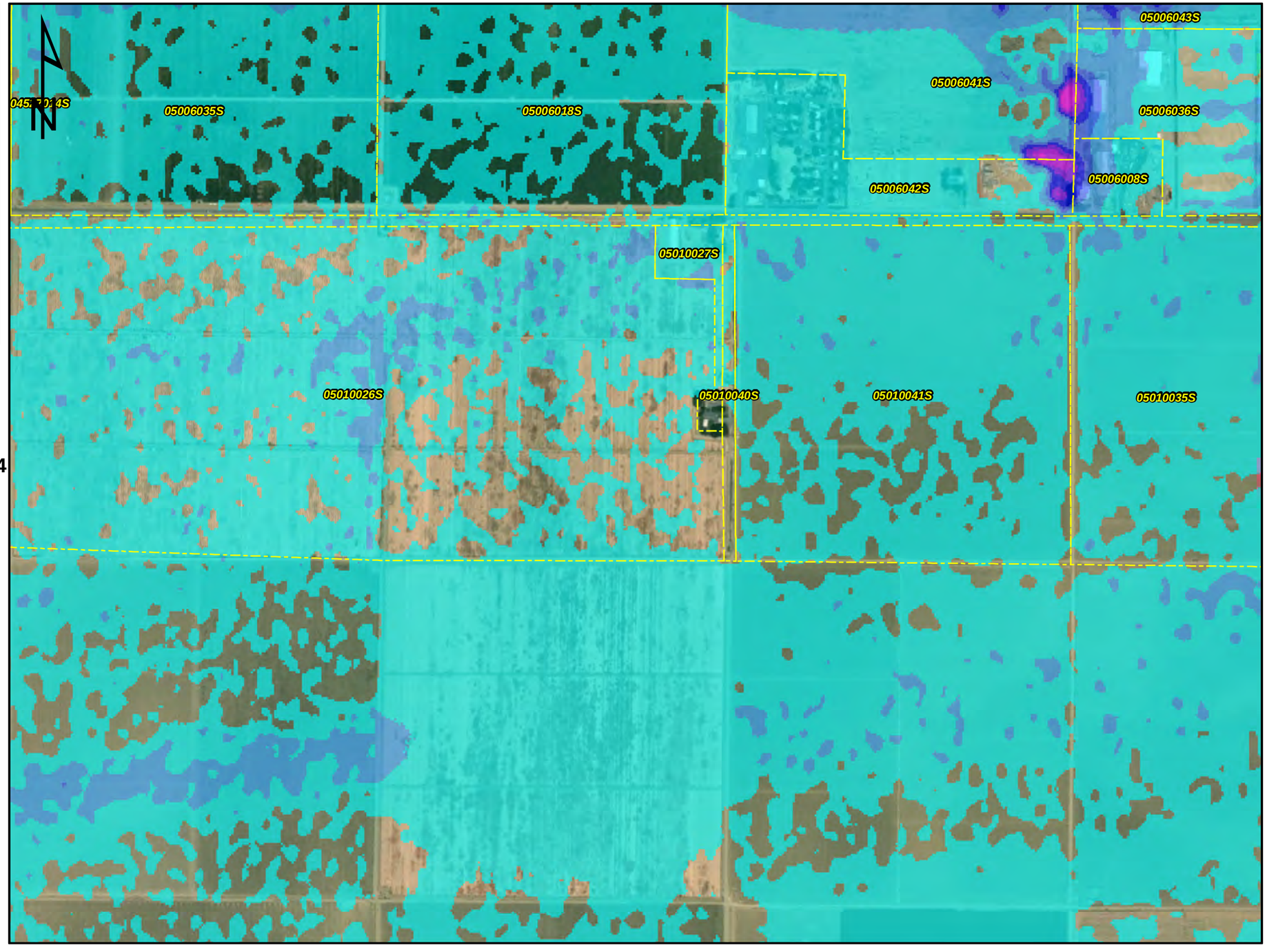

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
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Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F5
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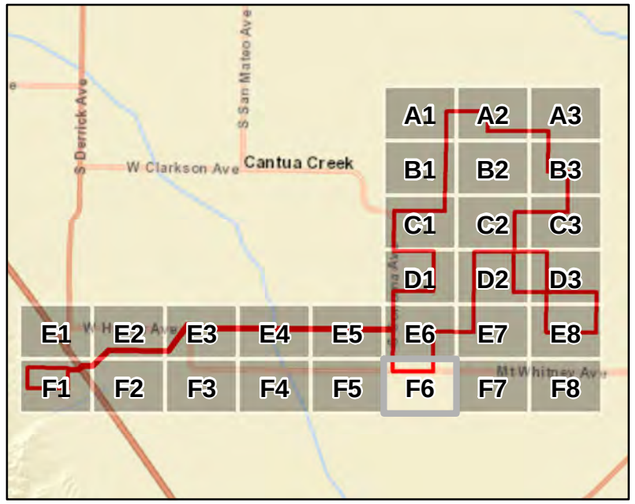

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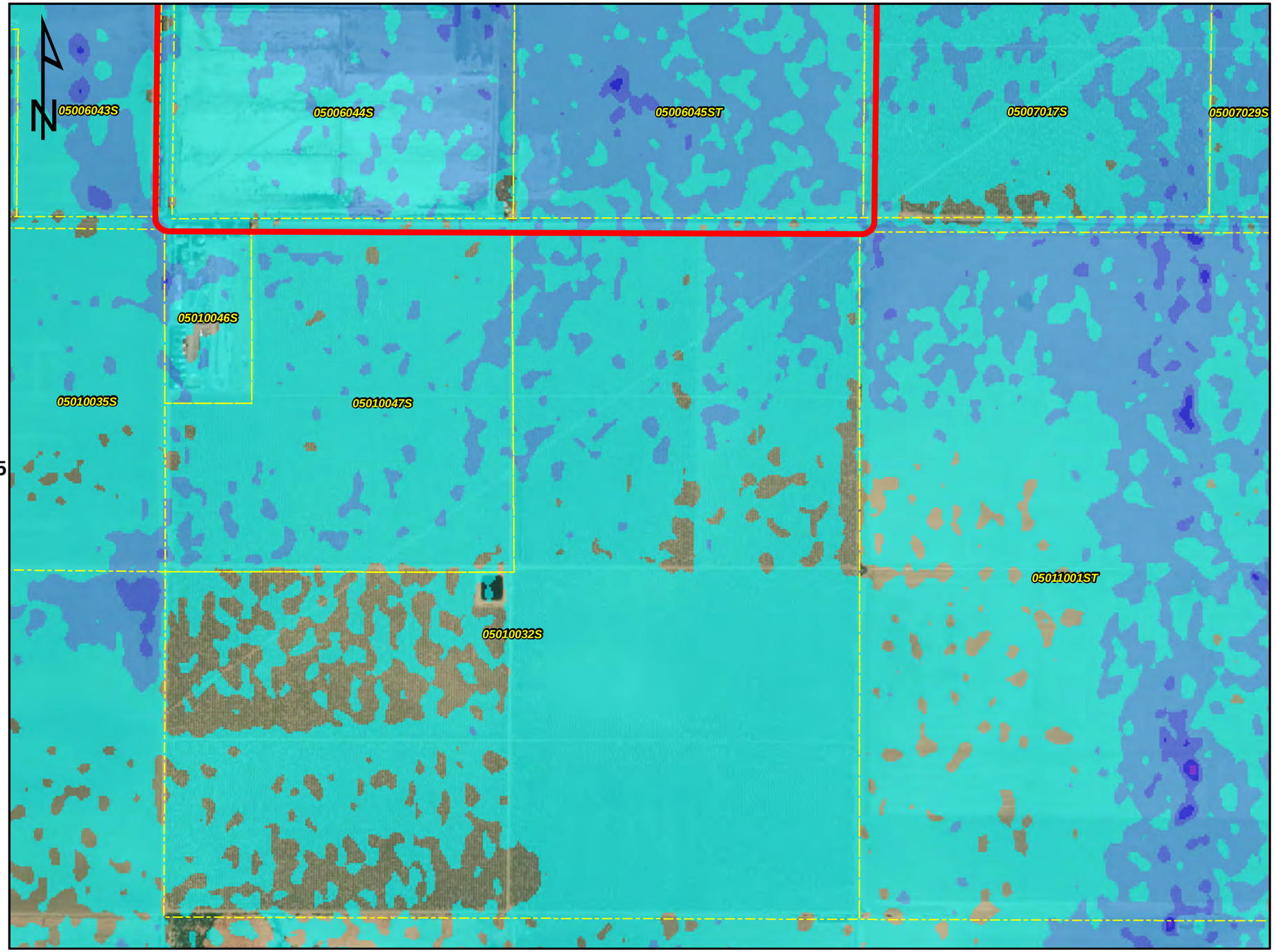

Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
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False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F6
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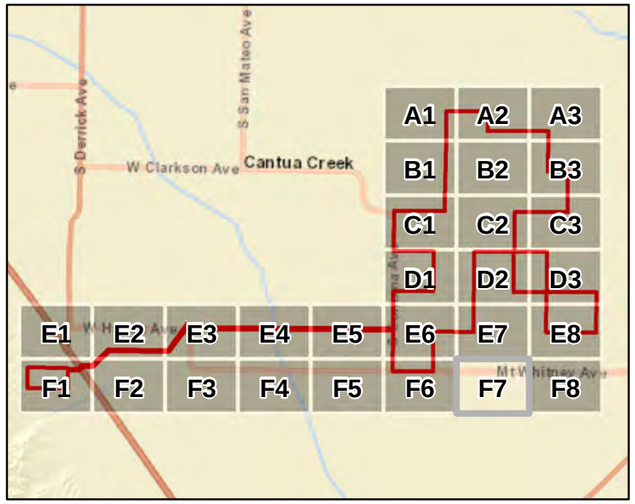
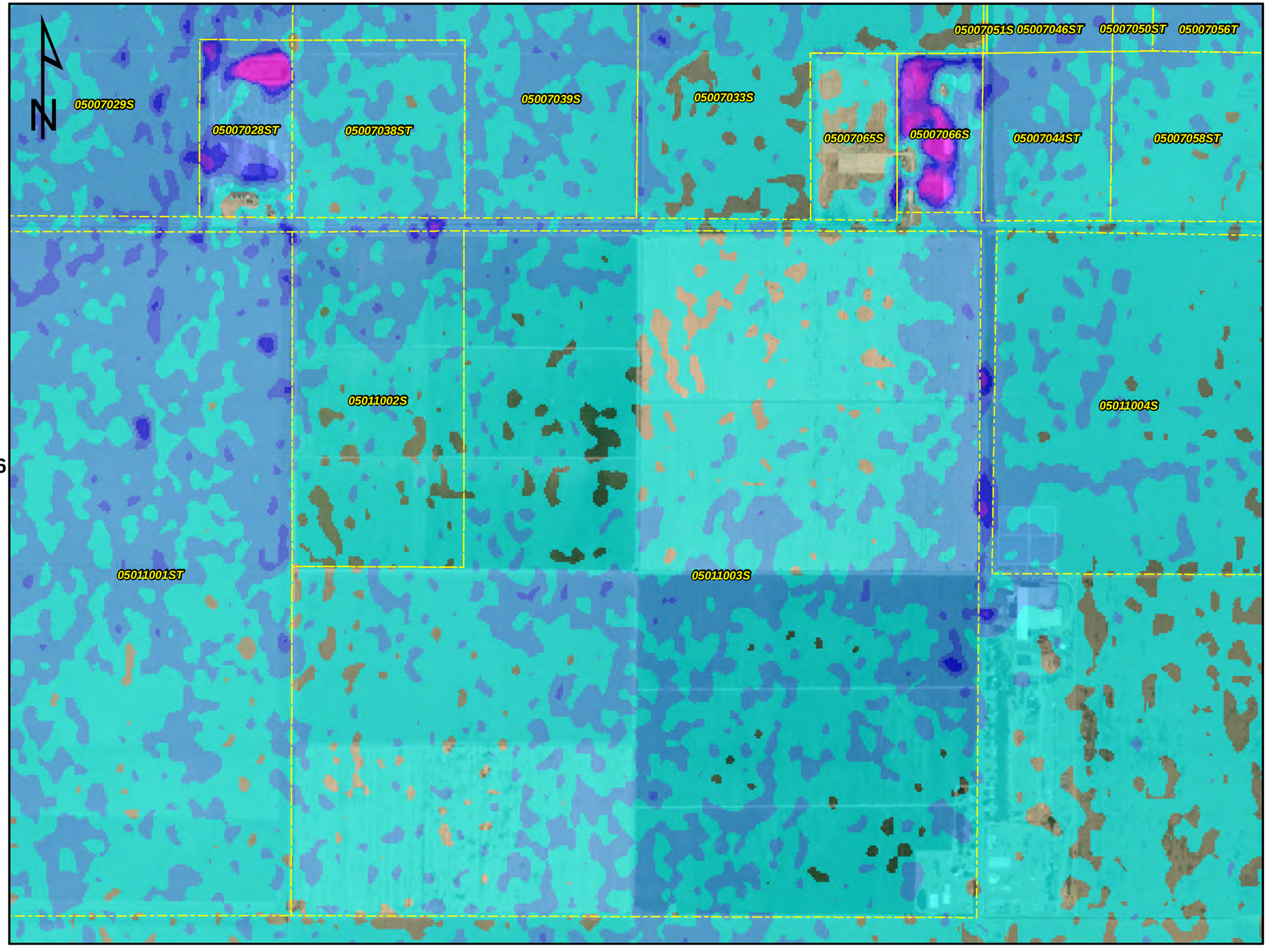


GRID INDEX

E7

F6

F8



Legend

- Darden Study Area
- Parcel Lines

Floodplain Max Depth (ft)

- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 2.5
- 2.6 - 3.0
- 3.1 - 3.5
- 3.6 - 4.0
- > 4.0

Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 6,561,666.6667
False Northing: 1,640,416.6667
Central Meridian: -119.0000
Standard Parallel 1: 36.0000
Standard Parallel 2: 37.2500
Latitude Of Origin: 35.3333
Units: Foot US

0 400 800 1,600 Feet

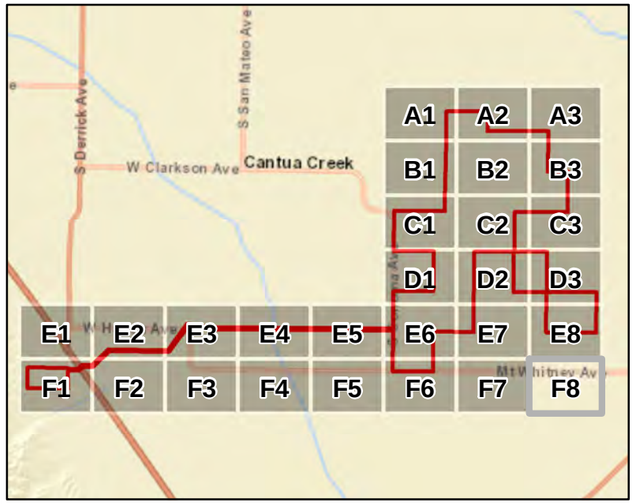
Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

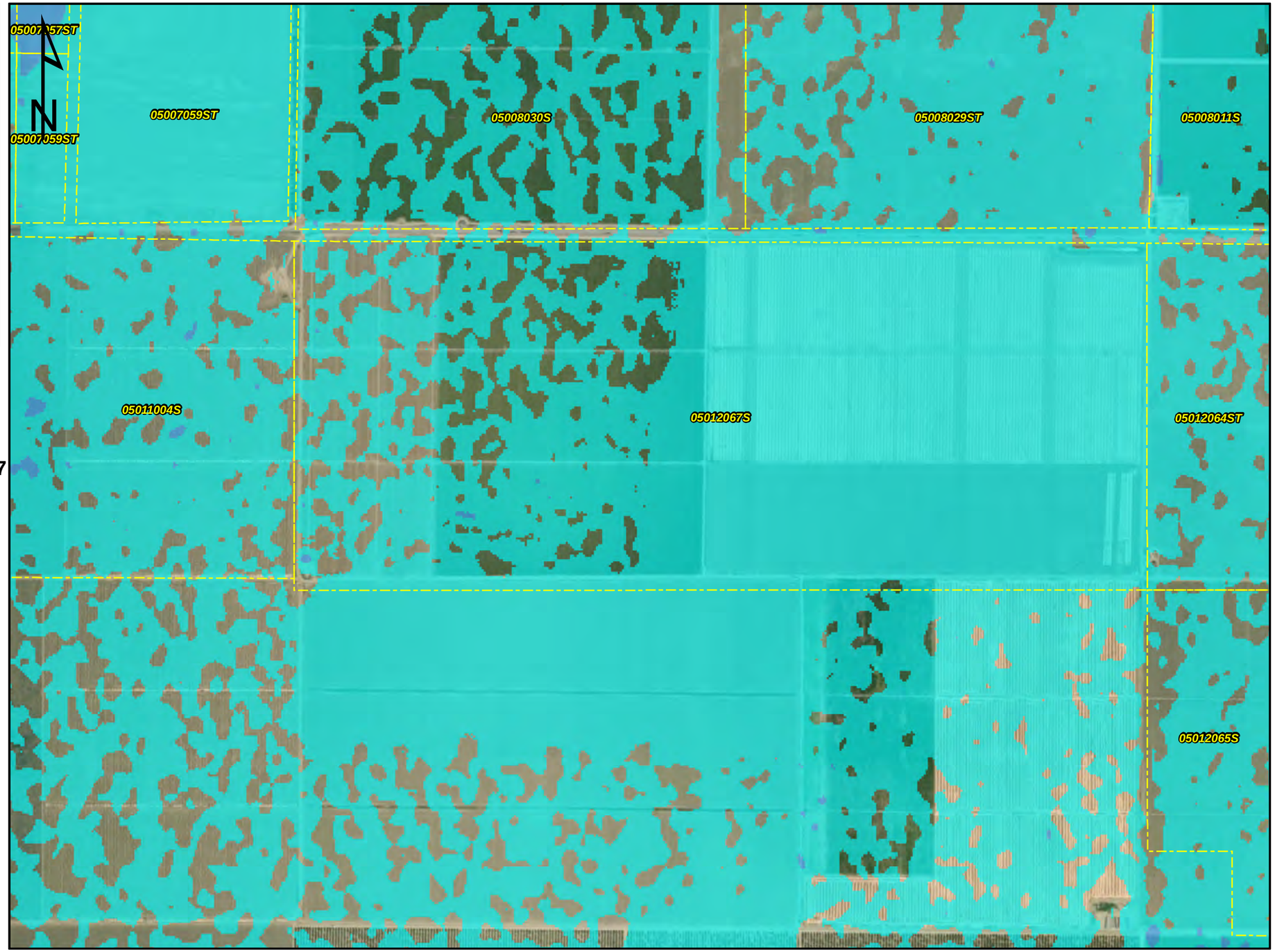
SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F7
STATE: CALIFORNIA	PAGE: 29 OF 30



GRID INDEX

E8

F7



Legend

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- Parcel Lines

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Intersect Power

UPPER DRY SUB-BASIN
DARDEN STUDY AREA
FRESNO COUNTY, CA

Darden
Maximum Flood Depth Classification
500 Year - 24 Hour Storm (0.2% Annual Chance)

Map Produced: 10/10/2023

SCALE: 1 in = 800 ft	BY: WRMA
COUNTY: FRESNO	GRID INDEX NO.: F8
STATE: CALIFORNIA	PAGE: 30 OF 30