

**APPENDIX 2 – JURISDICTIONAL WATERS
REPORT**

Campo Verde Solar Project Jurisdictional Waters Report

January 2012

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INTRODUCTION

Campo Verde Solar Project

The Campo Verde Solar Project (Project) is a proposed solar photovoltaic (PV) energy-generating facility located in Imperial County approximately 7 miles southwest of the community of El Centro, California. **Figure 1** shows the general location of the project.

The Project is being developed to sell its electricity and all renewable and environmental attributes to an electric utility purchaser under a long-term contract to help meet California RPS goals. The applicant has a long-term Power Purchase Agreement (PPA) with San Diego Gas and Electric (SDG&E) to purchase output from the Project.

The Project Site is south of I-8, west of Drew Road, and northeast of the Westside Main Canal. **Figure 2** shows the boundary of the Site and the included parcels which total approximately 1,990 acres. These private lands are currently used for agriculture.

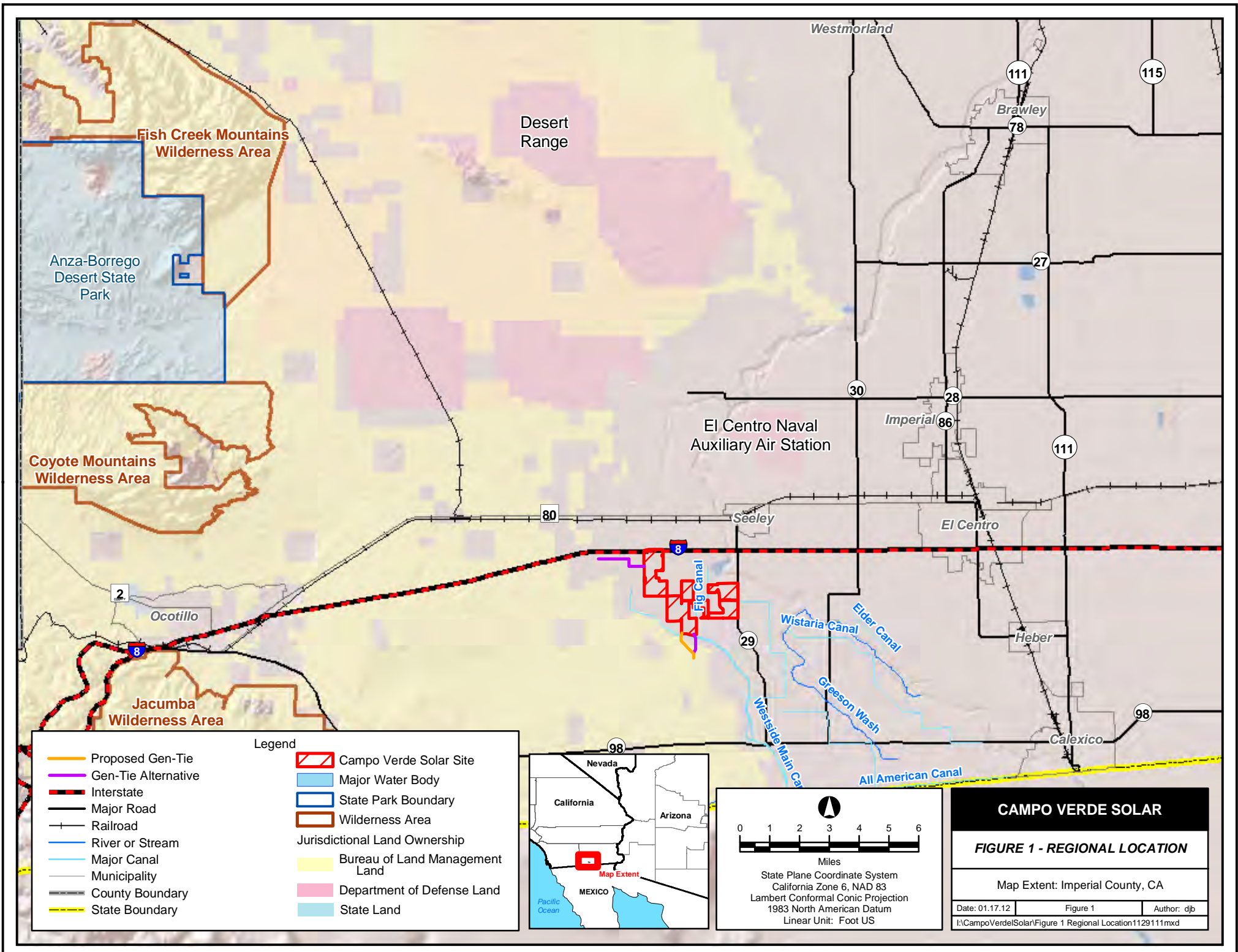
The Project would use First Solar PV modules that are generally non-reflective and convert sunlight into direct current (DC) electricity. The DC output of multiple rows of PV modules is collected through one or more combiner boxes and directed to an inverter that converts the DC electricity to alternating current (AC) electricity. From the inverter, the generated energy flows to a transformer where it is stepped up to distribution level voltage (approximately 34.5 kV). Multiple transformers are connected in parallel via 34.5 kV lines to the Project substation, where the power will be stepped up to 230 kV.

The Project is proposed to be constructed on lands that are presently farmed using flood irrigation. Water is delivered to fields using a series of delivery canals. Excess irrigation water and storm water are drained from the site by a series of ditches and drains that ultimately flow to the Salton Sea by way of the New River. Specific characteristics of the man-made irrigation features in the Project Area may cause some of them to be subject to federal jurisdiction under Section 404 of the Clean Water Act and/or subject to state jurisdiction under Sections 1600 *et seq.* of the Fish and Game Code, as described below. This report documents the occurrence of all drainages within the Project area, including gen-tie line alternatives, to determine their jurisdictional status under these federal and state authorities (**Figure 2**). For purposes of this report, drainages include all ephemeral, seasonal and permanent water bodies, including man-made canals and drains used for agricultural irrigation.

Transmission Interconnection: Gen-tie Line Alternatives

The Project will be interconnected to the regional transmission system via a new gen-tie line constructed to the Imperial Valley Substation. This interconnection will be accomplished via one of three potential gen-tie options – two requiring rights-of-way (ROWs) across federal lands managed by the Bureau of Land Management (BLM) and one private land gen-tie alternative that would provide the necessary interconnection without requiring ROW authorization from BLM.

The two gen-tie line alternatives that would cross BLM lands would be located entirely within a BLM-designated utility corridor. Each alternative would originate at the Project substation/switchyard at the southern end of the Project site and would go south to the Imperial Valley Substation. Either of these two



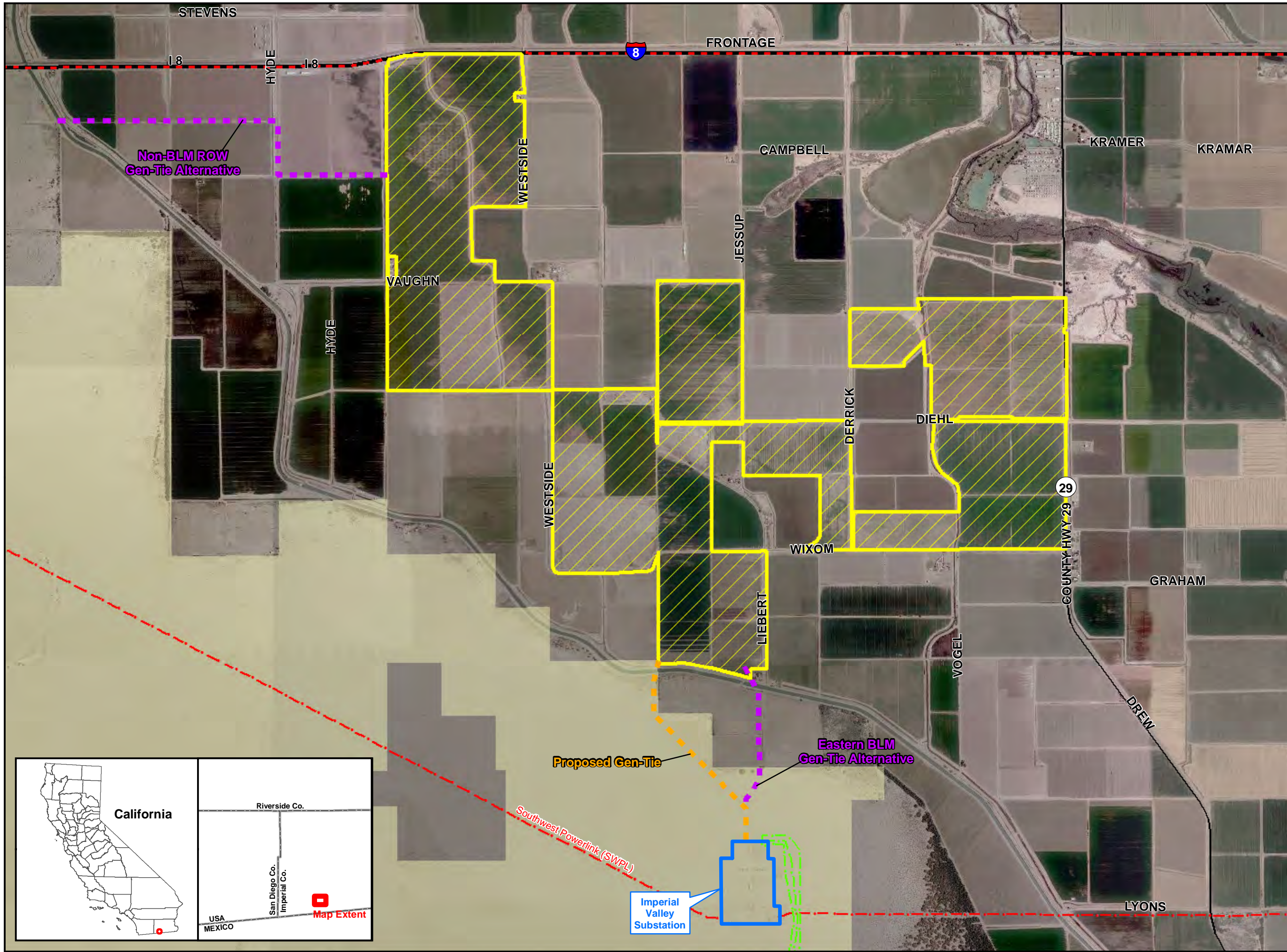
- | | | |
|---------------------|--------------------------------------|--|
| Proposed Gen-Tie | Campo Verde Solar Site | |
| Gen-Tie Alternative | Major Water Body | |
| Interstate | State Park Boundary | |
| Major Road | Wilderness Area | |
| Railroad | Jurisdictional Land Ownership | |
| River or Stream | Bureau of Land Management Land | |
| Major Canal | Department of Defense Land | |
| Municipality | State Land | |
| County Boundary | | |
| State Boundary | | |



Miles

State Plane Coordinate System
 California Zone 6, NAD 83
 Lambert Conformal Conic Projection
 1983 North American Datum
 Linear Unit: Foot US

CAMPO VERDE SOLAR		
FIGURE 1 - REGIONAL LOCATION		
Map Extent: Imperial County, CA		
Date: 01.17.12	Figure 1	Author: djb
I:\CampoVerdeSolar\Figure 1 Regional Location\1129111.mxd		



Legend

- Existing 500 kV Transmission Line
- Existing 230 kV Transmission Line
- Proposed Gen-Tie
- Gen-Tie Alternative
- Interstate
- Major Road
- County Boundary
- Campo Verde Solar Site

Jurisdictional Land Ownership

- Bureau of Land Management Land

0 1,000 2,000 3,000
Feet

0 0.25 0.5 0.75
Miles

State Plane Coordinate System
California Zone 6, NAD 83
Lambert Conformal Conic Projection
1983 North American Datum
Linear Unit: Foot US

California

Riverside Co.
San Diego Co.
Imperial Co.

USA
MEXICO

Map Extent

CAMPO VERDE SOLAR PROJECT

FIGURE 2 - PROJECT LOCATION

Map Extent: Imperial County, California

Date: 01.17.12 Author: djb
...Maps\Figure2BTRProjectLocation.mxd

Imperial Valley Substation

Southwest Powerlink (SWPL)

Eastern BLM Gen-Tie Alternative

Proposed Gen-Tie

Non-BLM ROW Gen-Tie Alternative

alternatives would be built as a double-circuit 230 kV line. The right-of-way (ROW) width would be 160 feet (**Figure 2**).

- The Eastern BLM Alternative would follow the existing IID S-line and would cross about 0.4 miles of BLM land.
- The Western BLM Alternative would follow existing roads and would cross about 0.9 miles of BLM land.

The Non-BLM Gen-tie Alternative being considered is to develop a single-circuit 230 kV line originating from the western side of the Project site. It would cross approximately 2.25 miles of private lands to the west and would utilize available capacity on a line that has an approved right-of-way to the Imperial Valley Substation (**Figure 2**).

In addition to any of the long-term interconnection solutions described above, a short-term electrical interconnection solution may be implemented that would involve an interconnection to IID's S Line that crosses the site. If this solution is utilized, it would provide temporary interconnection to the grid and would be replaced by the permanent interconnection into the Imperial Valley Substation when completed.

Field Surveys

The Project area was evaluated for drainage features during field visits performed on April 4-5, 2011, October 25-27, 2011 and December 19-20, 2011. Additional information was gathered using a Geographic Information System (GIS) and aerial imagery. Determinations regarding the potential jurisdictional status of the various features located within the Project area are based on the applicable federal and state laws and regulations and associated guidance documents.

PHYSICAL SETTING

Campo Verde Solar Project

The parcels on which the Project would be constructed are currently active agriculture lands growing crops such as wheat, alfalfa, and Bermuda grass. Irrigation water is supplied by a complex, engineered system of concrete-lined canals and lateral canals operated and maintained by the Imperial Irrigation District (IID). The concrete-lined canals and lateral canals are used to deliver water to multiple farm fields and typically contain water at all times except during maintenance periods.

The farm fields are large (typically 80 acres) flat fields graded for flood irrigation. When a field is irrigated, an allocated quantity of water is allowed to flow from the IID delivery canal to a smaller ditch (locally referred to as a "head ditch"), which distributes the water evenly across the field. The head ditches are either earthen or concrete-lined. Another ditch (locally referred to as a "tail ditch") is located at the opposite, lower elevation side of the field. The tail ditch collects any excess irrigation water and directs it to an IID-operated and maintained drain. All of the tail ditches on the Project site are earthen and are frequently rebuilt after the fields are plowed and disked.

Gen-tie Line

The two BLM Gen-tie line alternatives (eastern and western) would originate on the south end of the Campo Verde Solar Facility and extend to the Imperial Valley Substation.

The Eastern BLM Alternative would be approximately 0.8 miles in length. The northern 0.4 miles of this alternative would cross fallow agricultural lands between the Westside Main Canal and the northern boundary of BLM managed lands. Approximately 0.4 miles of this alternative would cross disturbed native desert lands managed by the BLM. These lands are primarily dominated by Creosote Bush (*Larrea tridentata*)–White Bursage (*Ambrosia dumosa*) Scrub, with small inclusions of Disturbed Stabilized Desert Dunes and Athel (*Tamarix aphylla*) Tamarisk (*Tamarix ramosissima*) Type Woodland.

The Western BLM Alternative would be approximately 1.0 mile in length and would cross approximately 0.9 miles of disturbed native desert lands managed by the BLM (immediately after crossing the Westside Main Canal). These lands are dominated by disturbed and undisturbed Creosote Bush–White Bursage Scrub, Disturbed Stabilized Desert Dunes, Athel Tamarisk Type Woodland, and Fallow Agriculture.

Only one drainage feature was identified on lands managed by the BLM (#91; Westside Main Canal). No features were identified in native (non-agricultural) habitats and, for this reason, these areas are not discussed further in this document.

The Private Gen-tie Alternative would cross approximately 1.75 miles of active agricultural lands similar in nature to the Campo Verde Solar Facility project area. These lands contain a mix of active agriculture, roads, and irrigation infrastructure, as described above.

ARMY CORPS OF ENGINEERS JURISDICTION

The U.S. Army Corps of Engineers (ACOE) has jurisdiction over wetlands and other “waters of the United States” that are subject Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act. Typically, these waters include naturally occurring traditional navigable waters (TNWs), relatively permanent waters (RPWs), and/or ephemeral waters with a significant nexus to a TNW. Man-made drainages constructed wholly in uplands are typically only considered jurisdictional if they are RPWs. The most recent guidance on the topic states that “relatively permanent waters typically flow year-round or have continuous flow at least seasonally (e.g. typically three months)” (EPA and ACOE 2008). Conversely, man-made drainages constructed solely in uplands that are not RPWs are generally not federally jurisdictional.

With respect to non-tidal waters, federal jurisdiction over non-wetlands extends to the “Ordinary High Water Mark” (OHWM). 33 C.F.R. § 328.4(c)(1). The Ordinary High Water (OHW) zone in low-gradient, alluvial ephemeral/intermittent channel forms in the Arid West is defined as the active floodplain. The dynamics of arid channel forms and the transitory nature of traditional OHWM indicators in arid environments render the limit of the active floodplain the only reliable and repeatable feature in terms of OHW zone delineation. The extent of flood model outputs for effective discharges (5 to 10 year events in arid channels) aligns well with the boundaries of the active floodplain (ACOE 2008).

OHWM indicators identified during visits to the Project area and on aerial photography were used to determine the potential jurisdictional status of drainage features in the project area. Changes in particle size, water staining, changes in vegetation cover/species, changes in slope from the active floodplain to the low terrace, shelving, and discernible bed and bank were the most common indicators used to delineate OHWMs in the Project area. OHWM forms were completed for all non-ephemeral features in the project area (i.e., RPWs). Because the potentially jurisdictional features in the Project area are man-

made RPWs, the OHW zone was typically delineated using direct measure of OHWM indicators rather than the extent of the active floodplain because irrigation features with controlled flows do not support true active floodplains. Data forms are provided in **Appendix D**.

Jurisdictional Features

A total of 118 surface water conveyance features were evaluated to determine potential federal jurisdiction. **Table 1** summarizes the findings of this evaluation. Details related to the drainage features and locations are provided in the **Drainage Descriptions** section. A mapbook depicting the location of all drainage features evaluated can be found in **Appendix C**.

Table 1 - Summary of Potential Federally Jurisdictional Waters

	Potentially Jurisdictional	Not Jurisdictional	Total
<i>Number of Drainages</i>	20	98	118

A total of 20 features were identified as potentially subject to federal jurisdiction. All features within the Project area are man-made features constructed wholly within uplands that are used for agricultural irrigation (supply and drainage). Typically the head ditches used to irrigate individual fields, as well as the tail ditches used to drain individual fields, convey water for only a few days at a time (i.e., during periodic and infrequent irrigation events) and, therefore, do not meet the definition of a RPW (requiring flow year-round or continuous flow at least seasonally [e.g. typically three months]). The larger, IID-maintained, concrete-lined canals and lateral canals used to convey water to multiple fields convey water for most of the year and would likely be considered subject to federal jurisdiction under the RPW definition. Similarly, the larger IID-maintained drains that collect tail water from multiple fields convey water for most of the year and would likely be considered subject to federal jurisdiction under the same RPW definition.

CALIFORNIA DEPARTMENT OF FISH AND GAME JURISDICTION

The California Department of Fish and Game (CDFG) generally takes jurisdiction over all stream features, including drains and canals. The CDFG’s jurisdiction extends from the top of bank to the opposite top of bank on these features, or to the limits of riparian vegetation if this vegetation extends beyond the top of the banks. Wetlands need to meet only one of the three ACOE criteria (wetland vegetation, wetland hydrology, and/or hydric soils) to be considered CDFG jurisdictional wetlands.

Under Section 1600 of the California Fish and Game Code, CDFG’s jurisdiction includes “...bed, channel or bank of any river, stream or lake designated by the department in which there is any time an existing fish or wildlife resource or from which these resources derive benefit...” Canals, aqueducts, irrigation ditches, and other means of water conveyance can also be considered streams if they support aquatic life, riparian vegetation or stream dependent terrestrial benefit (Cylinder 1995).

Jurisdictional Features

Generally speaking, most canals, head ditches and tail ditches do not support riparian habitat. Larger drains, however, typically do support some riparian habitat and are often considered subject to CDFG jurisdiction. Guidance from Magdalena Rodriguez at CDFG (2011) indicated that several commonly

occurring water conveyance types would not be considered jurisdictional: concrete head ditches only conveying water to a single field, and small tail ditches draining only a single field.

Drainage features in the Project area were considered potentially jurisdictional if they exhibited a naturally occurring bed and bank, riparian vegetation potentially providing wildlife habitat, and/or evidence of regular flow.

A total of 118 surface water conveyance features in the Project area were evaluated for potential jurisdictional status. **Table 2** summarizes the findings of the evaluation. Detailed drainage descriptions and evaluations are provided in the **Drainage Descriptions** section.

Table 2 – Summary of Potential State Jurisdictional Waters

	Potentially Jurisdictional	Not Jurisdictional	Total
<i>Number of Drainages</i>	23	95	118

A total of 23 features were identified as potentially state jurisdictional. All features within the Campo Verde Project Area are man-made features constructed wholly within uplands; these features are used for agricultural irrigation (supply and drainage). Typically the head ditches used to irrigate individual fields, as well as the tail ditches used to drain individual fields, convey water for only a few days (during periodic and infrequent irrigation events) at a time and, therefore, do not meet CDFG’s definition of a jurisdictional water. The larger, IID-maintained, concrete-lined canals and lateral canals used to convey water to multiple fields convey water for most of the year, sometimes support riparian vegetation and/or fisheries, and would likely be considered CDFG jurisdictional. Similarly, the larger IID-maintained drains that collect tail water from multiple fields convey water for most of the year and would likely be considered CDFG jurisdictional.

DRAINAGE DESCRIPTIONS

Drainage #1

Mapbook Pages: F-2
Photographs: 1
ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Lateral Canal
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	4

Jurisdictional Evaluation:

Wormwood Lateral 7: Carries water from Wormwood Canal to multiple Head Ditches. No riparian vegetation is present. Likely carries water for most of the year. OHWM indicator was water staining.

Drainage #2

Mapbook Pages: E-2, F-2
 Photographs: 2, 5
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
2	0

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6) via a box culvert and underground pipe. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #3 (Reserved – No conveyance assigned this number)

Drainage #4

Mapbook Pages: E-2, F-2
 Photographs: 3, 4
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete/Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Wormwood Lateral 7 (Drainage #1; via Gate 94) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #5

Mapbook Pages: E-2
 Photographs: 6
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	0

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #6

Mapbook Pages: E-1, E-2
 Photographs: 7, 8, 17, 18
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Drain
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
80	25

Jurisdictional Evaluation:

Fig Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to Fig Lagoon then the New River, and eventually to the Salton Sea.

Drainage #7

Mapbook Pages: E-2, F-2
 Photographs: 9
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: Limited
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6). Limited riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #8

Mapbook Pages: F-1 F-2
 Photographs: 10

ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Canal
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
14	10

Jurisdictional Evaluation:

Wormwood Canal: Carries water to multiple lateral canals and Head Ditches. Limited riparian vegetation is present along much of the feature. Likely carries water year-round. OHWM indicator was water staining.

Drainage #9

Mapbook Pages: E-1 E-2, F-1
Photographs: 12
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Wormwood Canal (Drainage #8; via Gate 92) to irrigate two fields. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #10

Mapbook Pages: E-1, E-2
Photographs: 14
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: Limited
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
12	10

Jurisdictional Evaluation:

Tail Ditch, drains two fields. Flows into Fig Drain (Drainage #6) via Drainage #14. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #11A

Mapbook Pages: F-1
 Photographs: 162
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Head Ditch/Wetland
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
25	20

Jurisdictional Evaluation:

Apparently defunct Head Ditch with wetland vegetation, carried water from Wormwood Canal (Drainage #8; via Gate 90) to irrigate a single field. Wetland/riparian vegetation is present. This segment appears to be collecting water leaking from nearby canals and head ditches. Delineation was based on the extent of hydrophytic vegetation (outside the limits of inundation/saturation).

Drainage #11B

Mapbook Pages: E-1, F-1
 Photographs: 15
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: Limited
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
10	4

Jurisdictional Evaluation:

Apparently defunct Head Ditch, carried water from Wormwood Canal (Drainage #8; via Gate 90) to irrigate a single field. Limited riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #12

Mapbook Pages: F-1
 Photographs: 11, 13
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None; arrow weed scrub adjacent
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Wormwood Canal (Drainage #8; via Gate 90A) to irrigate a single field. No riparian vegetation is present in feature, some arrow weed scrub is present adjacent to feature. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #13

Mapbook Pages: E-1
Photographs: 16
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6) via Drainage #14. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #14

Mapbook Pages: E-1
Photographs: 19
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: Limited
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Tail Ditch, drains several fields. Flows into Fig Drain (Drainage #6). Limited riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #15

Mapbook Pages: E-1, E-2
Photographs: 20
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6) via Drainage #14. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #16

Mapbook Pages: E-1, E-2
Photographs: 21
ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Drain
Riparian Vegetation: Yes
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
30	10

Jurisdictional Evaluation:

Diehl Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to Fig Drain, then to Fig Lagoon, the New River, and eventually to the Salton Sea.

Drainage #17

Mapbook Pages: E-1
Photographs: 22
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Diehl Drain (Drainage #16). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #18

Mapbook Pages: E-1
Photographs: 23
ACOE Jurisdiction: Not Jurisdictional

CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22; via Gate 9) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #19

Mapbook Pages: E-2
Photographs: 24
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Diehl Drain (Drainage #16). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #20

Mapbook Pages: E-2
Photographs: 25
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22; via Gate 2A) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #21

Mapbook Pages: E-2
 Photographs: 26
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #22

Mapbook Pages: D-2, E-1, E-2
 Photographs: 40, 41
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Canal
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
14	10

Jurisdictional Evaluation:

Fig Canal: Flows from Fern Canal (via Gate Fig), carries water to multiple lateral canals and Head Ditches. No riparian vegetation is present along much of the feature. Likely carries water year-round. OHWM indicator was water staining.

Drainage #23

Mapbook Pages: E-2
 Photographs: 42
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22; via Gate 1) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #24

Mapbook Pages: E-2
 Photographs: 43
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Diehl Drain (Drainage #16). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #25

Mapbook Pages: D-2, E-2
 Photographs: 44
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22; via Gate 5) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #26

Mapbook Pages: D-2, E-2
 Photographs: 45
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Wixom Drain (Drainage #27). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #27

Mapbook Pages: D-1, D-2
 Photographs: 46, 47, 50, 51, 146, 147
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Drain
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
25	12

Jurisdictional Evaluation:

Wixom Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to Wetland (Drainage #63), then to Fig Lagoon, the New River, and eventually to the Salton Sea.

Drainage #28 (Reserved – No conveyance assigned this number)

Drainage #29

Mapbook Pages: D-1, D-2
 Photographs: 49
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	3

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Wixom Drain (Drainage #27). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #30

Mapbook Pages: E-1
 Photographs: 52, 53
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22; via Gate 10) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #31

Mapbook Pages: D-1, D-2
 Photographs: 54, 55
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33; via Gate 7) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #32

Mapbook Pages: D-1
 Photographs: 57
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33; via Gate 12) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #33

Mapbook Pages: D-1, D-2, D-3
 Photographs: 56
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Canal
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
16	12

Jurisdictional Evaluation:

Fern Canal: Flows from Westside Main (Drainage #91; via Gate Fern), carries water to multiple lateral canals and Head Ditches. No riparian vegetation is present along much of the feature. Likely carries water year-round. OHWM indicator was water staining.

Drainage #34

Mapbook Pages: D-1
 Photographs: 60
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3C Drain (Drainage #58). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #35

Mapbook Pages: C-2
 Photographs: 61
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3C Drain (Drainage #58) via a culvert. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #36

Mapbook Pages: C-2
 Photographs: 62
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33; via Gate 14) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #37

Mapbook Pages: C-2, C-3
 Photographs: 63
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #38

Mapbook Pages: D-1
 Photographs: 65

ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33; via Gate 13A) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #39

Mapbook Pages: C-3, D-1
Photographs: 64
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	3

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33; via Gate 11) to irrigate a single field. Connected to Feature #40. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #40

Mapbook Pages: D-1, D-2
Photographs: 66
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete/Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	3

Jurisdictional Evaluation:

Defunct Head Ditch, formerly carried water from Fern Canal (Drainage #33; via Gate 11) to irrigate a single field. Connected to Feature #39. No riparian vegetation is present Head Ditches typically convey

water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #41

Mapbook Pages: C-3, D-2
Photographs: 67
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	2

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #42

Mapbook Pages: C-3, D-2
Photographs: 68
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #43

Mapbook Pages: D-1, D-2
Photographs: 69
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33; via Gate 8) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #44

Mapbook Pages: D-2
 Photographs: 70
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #45

Mapbook Pages: D-2, D-3
 Photographs: 71
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #46

Mapbook Pages: D-3
 Photographs: 72
 ACOE Jurisdiction: Not Jurisdictional

CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Westside Main (Drainage #91; via unnumbered gate); Unclear if this feature is used for field irrigation or to control overflow from canal system. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events); overflow control patterns may be different. They are typically dry (non-RPW).

Drainage #47

Mapbook Pages: D-2, D-3
Photographs: 73
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete/Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Drainage #46, via Gate 11A, to irrigate two fields. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW). Southeastern spur of feature is earthen, rest of feature is concrete.

Drainage #48

Mapbook Pages: D-2, D-3
Photographs: 74, 75
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Isolated Tail Ditch, drains a single field. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #49

Mapbook Pages: C-1, C-2, C-3, C-4, D-2
Photographs: 76, 77
ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Drain
Riparian Vegetation: Yes
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
50	35

Jurisdictional Evaluation:

Dixie 3A Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to the New River and eventually to the Salton Sea.

Drainage #50

Mapbook Pages: C-3
Photographs: 78
ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Wetland (Defunct Drain)
Riparian Vegetation: Yes
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
30	15

Jurisdictional Evaluation:

Defunct Drain, now a wetland; water backs up from Dixie 3A Drain (Feature #49). Riparian/wetland vegetation is present along feature. Likely saturated/inundated for most of the year, if not year-round. Delineated based on extend of riparian vegetation or top of bank (larger than saturated/indundated area).

Drainage #51

Mapbook Pages: C-2, C-3
Photographs: 79
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #52

Mapbook Pages: C-2, C-3
 Photographs: 80
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33), via Drainage #77, to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #53

Mapbook Pages: C-2
 Photographs: 81
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: Limited
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49), via a culvert. Limited riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #54

Mapbook Pages: C-2, C-3
 Photographs: 82
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional

Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Drains into culverts at both ends. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #55

Mapbook Pages: C-1, C-2, C-3
Photographs: 83, 86
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
7	5

Jurisdictional Evaluation:

Head Ditch, carries water from Westside Main (Drainage #91) to irrigate a two fields. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #56

Mapbook Pages: C-1, C-2
Photographs: 84, 143
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
10	6

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49) at several locations. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #57

Mapbook Pages: C-1, C-2
 Photographs: 85
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Drain
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
50	25

Jurisdictional Evaluation:

Westside Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to Dixie 3A Drain (Drainage #49) then to the New River and eventually to the Salton Sea.

Drainage #58

Mapbook Pages: C-2, D-1
 Photographs: 58, 59, 88, 145
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Drain
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
50	25

Jurisdictional Evaluation:

Dixie 3C Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to Dixie 3A Drain (Drainage #49) then to the New River and eventually to the Salton Sea.

Drainage #59

Mapbook Pages: C-1, C-2
 Photographs: 89
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from unnumbered Fern Lateral Canal (Drainage #61; via Gate 25) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #60

Mapbook Pages: C-1
 Photographs: 92
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from unnumbered Fern Lateral Canal (Drainage #61; via Gate 26) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #61

Mapbook Pages: C-1
 Photographs: 90
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Lateral Canal
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	6

Jurisdictional Evaluation:

Unnumbered Fern Lateral: Carries water from Fern Canal to multiple Head Ditches. No riparian vegetation is present. Likely carries water for most of the year. OHWM indicator was water staining.

Drainage #62

Mapbook Pages: C-1, C-2
 Photographs: 93
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional

Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	4

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49) via a culvert. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #63 (Reserved – No conveyance assigned this number)

Drainage #64

Mapbook Pages: F-1, F-2
Photographs: 95, 96
ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Drain
Riparian Vegetation: Yes
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
35	20

Jurisdictional Evaluation:

Wormwood 7 Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to the New River and eventually to the Salton Sea.

Drainage #65

Mapbook Pages: F-1
Photographs: 97
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	3

Jurisdictional Evaluation:

Head Ditch, carries water from Wormwood Canal (Drainage #8; via Drainage #11 and an unnumbered Gate) to irrigate a single field. No riparian vegetation is present Head Ditches typically convey water for

only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #66

Mapbook Pages: E-1
 Photographs: 98
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #67

Mapbook Pages: E-1
 Photographs: 99
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Fig Drain (Drainage #6). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #68

Mapbook Pages: E-1
 Photographs: 100
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Isolated Tail Ditch, drains a single field. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #69 (Reserved – No conveyance assigned this number)

Drainage #70 (Reserved – No conveyance assigned this number)

Drainage #71 (Reserved – No conveyance assigned this number)

Drainage #72

Mapbook Pages: D-1
 Photographs: 104
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
7	5

Jurisdictional Evaluation:

Head Ditch, carries water to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #73

Mapbook Pages: D-1
 Photographs: 105
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
2	1

Jurisdictional Evaluation:

Small, isolated Tail Ditch, drains a single field. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #74

Mapbook Pages: D-1
 Photographs: 106
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33) via Gate 15 to irrigate a single field. No riparian vegetation is present Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #75 (Reserved – No conveyance assigned this number)

Drainage #76

Mapbook Pages: C-2
 Photographs: 107
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Drainage #77 to Drainage #52. Does not irrigate any fields; only serves as a connector. No riparian vegetation is present Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW). Likely has flow pattern identical to Drainage #52.

Drainage #77

Mapbook Pages: C-2
 Photographs: 108
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None

Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #78

Mapbook Pages: C-1
 Photographs: 109
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Road Ditch
 Riparian Vegetation: Limited
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Road Ditch, carries surface runoff from Interstate-8. Flows to Westside Drain (Drainage #57). Limited riparian vegetation is present. Typically only flows during and immediately after precipitation events (non-RPW).

Drainage #79

Mapbook Pages: C-1, C-2
 Photographs: 110
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
5	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Westside Drain (Drainage #57). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #80

Mapbook Pages: B-2, C-2
 Photographs: 111
 ACOE Jurisdiction: Not Jurisdictional

CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
10	6

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Westside Drain (Drainage #57). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #81

Mapbook Pages: C-2
Photographs: 112
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Forget Me Not Canal (Drainage #115; via Gate 2) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #82

Mapbook Pages: C-2
Photographs: 113
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Forget Me Not Canal (Drainage #115; via Gate 1) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #83

Mapbook Pages: C-2
 Photographs: 114
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
12	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Westside Drain (Drainage #57). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #84

Mapbook Pages: C-2, C-3
 Photographs: 115
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Westside Drain (Drainage #57) via a culvert. No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #85

Mapbook Pages: C-3
 Photographs: 116
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
3	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into a culvert, unclear where culvert drains to – possibly Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #86

Mapbook Pages: C-3
Photographs: 117
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #87

Mapbook Pages: C-3
Photographs: 118
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #88

Mapbook Pages: C-3
Photographs: 119
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows into Dixie 3A Drain (Drainage #49). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #89

Mapbook Pages: C-3
 Photographs: 120
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch (possibly defunct), carries water to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #90

Mapbook Pages: D-2, D-3
 Photographs: 121
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Drain
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
30	18

Jurisdictional Evaluation:

Dixie 3B Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to the Dixie 3A Drain then to the New River and eventually to the Salton Sea.

Drainage #91

Mapbook Pages: A-1, D-3
 Photographs: 122
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional

Feature Type: Canal
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
150	120

Jurisdictional Evaluation:

Westside Main: Flows from the All-American Canal, carries water to multiple Canals, Lateral Canals and Head Ditches. Some riparian vegetation is present along much of the feature; mostly arrow weed. Carries water year-round. OHWM indicators included water staining and change in vegetation.

Drainage #92

Mapbook Pages: D-2, D-3
 Photographs: 123
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into Wixom Drain (Drainage #27). No riparian vegetation is present along feature. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #93

Mapbook Pages: D-3
 Photographs: 124
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
10	6

Jurisdictional Evaluation:

Head Ditch, carries water to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #94

Mapbook Pages: E-2, D-2
 Photographs: 125
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	1

Jurisdictional Evaluation:

Small isolated Tail Ditch, drains a single field. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #95

Mapbook Pages: D-2
 Photographs: 126
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None (*Atriplex* scrub adjacent to feature)
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33, via Gate 1B) to irrigate a single field. No riparian vegetation is present Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #96

Mapbook Pages: D-2
 Photographs: No Picture
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fern Canal (Drainage #33, via Gate 3) to irrigate a single field; possibly defunct. No riparian vegetation is present Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #97

Mapbook Pages: D-2, E-2
 Photographs: 127
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	2

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows to Wixom Drain (Drainage #27). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #98

Mapbook Pages: D-2, E-2
 Photographs: 128
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete/Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	3

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22, via Gate 3) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #99

Mapbook Pages: E-2
 Photographs: 129
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22, via Gate 2) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #100

Mapbook Pages: E-2, F-2
 Photographs: 130
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
2	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows to Fig Drain (Drainage #6). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #101

Mapbook Pages: E-2
 Photographs: 131
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows to Diehl Drain (Drainage #16). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #102

Mapbook Pages: E-2
 Photographs: 132
 ACOE Jurisdiction: Not Jurisdictional

CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22, via Gate 4) to irrigate a two fields (drainage splits). No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #103

Mapbook Pages: E-2
Photographs: 133
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
2	1

Jurisdictional Evaluation:

Small isolated Tail Ditch, drains a single field. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #104

Mapbook Pages: E-2
Photographs: 134
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22, via Gate 6) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #105

Mapbook Pages: D-2, E-2
 Photographs: 135
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Head Ditch, carries water from Fig Canal (Drainage #22, via Gate 7) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #106

Mapbook Pages: D-1, E-1
 Photographs: 136
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	5

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows to Wixom Drain (Drainage #27). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #107

Mapbook Pages: D-1, E-1
 Photographs: 137
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Earthen Head Ditch, carries water from Fig Canal (Drainage #22, via Gate 8) to irrigate a single field. Riparian vegetation (arrow weed) is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #108

Mapbook Pages: D-1, E-1
Photographs: 138
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	3

Jurisdictional Evaluation:

Tail Ditch, drains a single field. Flows to Wixom Drain (Drainage #27). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #109

Mapbook Pages: E-1
Photographs: 139
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
2	1

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows to Diehl Drain (Drainage #16). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #110

Mapbook Pages: B-1, B-2
Photographs: 140
ACOE Jurisdiction: Potentially Jurisdictional
CDFG Jurisdiction: Potentially Jurisdictional
Feature Type: Drain
Riparian Vegetation: Yes
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
30	15

Jurisdictional Evaluation:

Forget Me Not Drain 1: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains to eventually to New River.

Drainage #111

Mapbook Pages: A-1
 Photographs: 141, 142
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Drain
 Riparian Vegetation: Yes
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
40	20

Jurisdictional Evaluation:

Dixie 4 Drain: Large drain, collects tail-water from several Tail Ditches. Riparian vegetation is present along much of the feature. Likely flows for most of the year, if not year-round. OHWM indicators include presence of bed and bank, change in vegetation cover and change in slope. Drains eventually to New River.

Drainage #112 (Reserved – No conveyance assigned this number)

Drainage #113

Mapbook Pages: F-1, F-2
 Photographs: 10
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Earthen Head Ditch, carries water from Wormwood Canal (Drainage #8, via Gate 88) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #114

Mapbook Pages: A-1
 Photographs: 148
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Canal
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
20	12

Jurisdictional Evaluation:

Foxglove Canal: Flows from the Westside Main Canal (Drainage #91), carries water to multiple Lateral Canals and Head Ditches. Some riparian vegetation is present along much of the feature; mostly arrow weed. Carries water year-round. OHWM indicator was water staining.

Drainage #115

Mapbook Pages: B-1, B-2
 Photographs: 149
 ACOE Jurisdiction: Potentially Jurisdictional
 CDFG Jurisdiction: Potentially Jurisdictional
 Feature Type: Canal
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
10	6

Jurisdictional Evaluation:

Forget Me Not Canal: Flows from the Westside Main Canal (Drainage #91), carries water to multiple Lateral Canals and Head Ditches. Some riparian vegetation is present along much of the feature; mostly arrow weed. Carries water year-round. OHWM indicator was water staining.

Drainage #116

Mapbook Pages: B-1, B-2
 Photographs: 150
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Lateral Canal
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	4

Jurisdictional Evaluation:

Forget Me Not Lateral 1: Flows from the Forget Me Not Canal (Drainage #115; via Gate Lat 1), carries water to one or two Head Ditches. No riparian vegetation. Carries water only when the Head Ditches it serves are in use (only a few days at a time, during periodic and infrequent irrigation events).

Drainage #117 (Reserved – No conveyance assigned this number)

Drainage #118

Mapbook Pages: B-2
 Photographs: 152
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	2

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows to Forget Me Not Drain 1 (Drainage #110; via a culvert). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #119

Mapbook Pages: B-1, B-2
 Photographs: 153
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Concrete Head Ditch, carries water from Forget Me Not Canal (Drainage #115, via Gate 7) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #120 (Reserved – No conveyance assigned this number)

Drainage #121

Mapbook Pages: B-1
 Photographs: 155
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch

Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
8	2

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows to Forget Me Not Drain 1 (Drainage #110). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #122

Mapbook Pages: B-1
Photographs: 156
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Earthen/Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Earthen/concrete Head Ditch, carries water to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #123

Mapbook Pages: B-1
Photographs: 157
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Tail Ditch
Riparian Vegetation: None
Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
12	10

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #124

Mapbook Pages: A-1, B-1
 Photographs: 158
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Head Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
10	4

Jurisdictional Evaluation:

Earthen Head Ditch, carries water from Foxglove Canal (Feature #114; via Gate Lat 1 and Gate 17) to irrigate a single field. No riparian vegetation is present. Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

Drainage #125

Mapbook Pages: B-1
 Photographs: 159
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	2

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into earthen Head Ditch (Drainage #124). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #126

Mapbook Pages: B-1
 Photographs: 160
 ACOE Jurisdiction: Not Jurisdictional
 CDFG Jurisdiction: Not Jurisdictional
 Feature Type: Tail Ditch
 Riparian Vegetation: None
 Substrate: Earthen

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
4	3

Jurisdictional Evaluation:

Small Tail Ditch, drains a single field. Flows into earthen Head Ditch (Drainage #124). Tail ditches typically convey water only during periodic irrigation when excess irrigation water that is not absorbed by the field drains to them. They are typically dry (non-RPW).

Drainage #127

Mapbook Pages: A-1
Photographs: 161
ACOE Jurisdiction: Not Jurisdictional
CDFG Jurisdiction: Not Jurisdictional
Feature Type: Head Ditch
Riparian Vegetation: None
Substrate: Concrete

Dimensions (ft.)	
Bank-to-Bank	Channel/OHWM
6	4

Jurisdictional Evaluation:

Concrete Head Ditch, carries water from Foxglove Canal (Feature #114; via Gate Lat 1 and Gate 19) to irrigate a single field. No riparian vegetation is present Head Ditches typically convey water for only a few days at a time (during periodic and infrequent irrigation events). They are typically dry (non-RPW).

References

- Army Corps of Engineers (ACOE). ACOE. 2008. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States – A Delineation Manual. Robert W. Lichvar and Shawn M. McColley. August 2008.
- Cylinder, P., K. Bogdan, E. Davis, A. Herson. 1995. *Wetlands Regulation: A Complete Guide to Federal and California Programs*. Solano Press Books. Point Arena, California.363pp.
- Environmental Protection Agency (EPA) and Army Corps of Engineers (ACOE). 2008. Clean Water Act Jurisdiction Following the U.S. Supreme Court’s Decision in Rapanos v. United States & Carabell v. United States. December 2, 2008.
- Rodriguez, M. 2010. Personal Communication re: Potentially state jurisdictional waters and Streambed Alteration Application process. (Email correspondence, December 1, 2010).

Appendix A
Drainage Data Table

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
1	Lateral Canal	622704, 3623199	622692, 3624229	Y	Y	None	Concrete	0.64	8	4
2	Tail Ditch	622699, 3623253	621900, 3623248			None	Earthen	0.50	2	0
4	Head Ditch	622694, 3623657	621751, 3623858			None	Concrete/Earthen	0.65	6	4
5	Tail Ditch	621882, 3623282	621920, 3623575			None	Earthen	0.19	8	0
6	Drain	621880, 3623187	621601, 3625177	Y	Y	Yes	Earthen	1.30	80	25
7	Tail Ditch	622673, 3624191	621969, 3624169			Limited	Earthen	0.61	6	4
8	Canal	622767, 3624212	622667, 3624948	Y	Y	None	Concrete	0.51	14	10
9	Head Ditch	622661, 3624934	622263, 3625094			None	Concrete	0.35	6	4
		622261, 3624926	622267, 3624232					0.43		
10	Tail Ditch	622290, 3625091	622295, 3624217			Limited	Earthen	0.54	12	10
11A	Head Ditch	622677, 3624933	622677, 3625015	Y	Y	Yes	Earthen	0.05	25	20
11B	Head Ditch	622677, 3625015	622154, 3625155	Y		Limited	Earthen	0.42	10	4
12	Head Ditch	622667, 3624953	622666, 3625112			None	Concrete	0.10	6	4
13	Tail Ditch	621711, 3624584	621669, 3625066			None	Earthen	0.30	5	2
14	Tail Ditch	622292, 3624594	621711, 3624584	Y		Limited	Earthen	0.36	6	4
15	Tail Ditch	621713, 3624214	621711, 3624584			None	Earthen	0.23	6	4

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
16	Drain	621117, 3624546	621117, 3624280	Y	Y	Yes	Earthen	0.90	30	10
17	Tail Ditch	621439, 3624627	621442, 3625001			None	Earthen	0.33	4	2
18	Head Ditch	621107, 3624605	621102, 3624999			None	Concrete	0.24	6	4
19	Tail Ditch	621122, 3623500	621123, 3623259			None	Earthen	0.15	4	2
20	Head Ditch	621095, 3623240	621500, 3623502			None	Concrete	0.41	6	4
21	Tail Ditch	621849, 3223249	621903, 3623490			None	Earthen	0.16	4	2
22	Canal	621082, 3624546	621082, 3624279	Y	Y	None	Concrete	1.39	14	10
23	Head Ditch	620878, 3623254	621062, 3623240			None	Concrete	0.12	6	4
24	Tail Ditch	620935, 3623766	621070, 3623767			None	Earthen	0.08	6	3
		620932, 3623719	621070, 3623722					0.09		
		621070, 3623719	621124, 3623783					0.07		
25	Head Ditch	621083, 3623802	620319, 3623789			None	Concrete	0.48	6	4
26	Tail Ditch	621075, 3624177	620290, 3624169			None	Earthen	0.29	6	3
27	Drain	620295, 3623723	620289, 3625300			Yes	Earthen	0.98	25	12
		620290, 3625180	620263, 3625180	Y	Y			0.02		
		620525, 3623312	620526, 3623244					0.04		

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
29	Tail Ditch	620256, 3625214	620240, 3624205			None	Earthen	0.64	6	3
		620270, 3624423	620295, 3624423					0.02		
30	Head Ditch	621060, 3625118	621007, 3625001			None	Concrete	0.08	6	4
		621059, 3625102	621078, 3625102					0.01		
31	Head Ditch	621108, 3624604	621082, 3624604			None	Concrete	0.02	6	4
		619682, 3624175	619645, 3625204					0.65		
32	Head Ditch	619244, 3624430	619249, 3624483			None	Concrete	0.04	6	4
33	Canal	620126, 3623742	620462, 3623310	Y	Y	None	Concrete	1.59	16	12
34	Tail Ditch	619645, 3624436	619626, 3625206			None	Earthen	0.48	8	2
35	Tail Ditch	618878, 3625191	618924, 3625205			None	Earthen	0.03	5	2
36	Head Ditch	618928, 3624816	618845, 3624816			None	Concrete	0.05	6	4
37	Tail Ditch	618835, 3624805	618813, 3624414			None	Earthen	0.25	5	2
38	Head Ditch	619221, 3624432	619220, 3624483			None	Concrete	0.03	6	4
39	Head Ditch	219215, 3624396	619237, 3624397			None	Concrete	0.23	5	3
40	Head Ditch	619244, 3624010	619215, 3624396			None	Concrete/Earthen	0.24	5	3
41	Tail Ditch	619235, 3624014	618877, 3623614			None	Earthen	0.48	4	2

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
42	Tail Ditch	619252, 3624302	618844, 3623613			None	Earthen	0.69	6	3
43	Head Ditch	619611, 3624385	619653, 3623634			None	Concrete	0.47	6	4
44	Tail Ditch	619654, 3623962	619668, 3623664			None	Earthen	0.46	5	3
45	Tail Ditch	619684, 3622387	619607, 3623092			None	Earthen	0.47	5	3
46	Head Ditch	620357, 3622228	619689, 3622365			None	Concrete	0.44	6	4
47	Head Ditch	620350, 3622281	619716, 3623956			None	Concrete/Earthen	1.31	6	4
48	Tail Ditch	620451, 3622339	620433, 3623212			None	Earthen	0.54	5	2
49	Drain	619668, 3623225	617902, 3626975	Y	Y	Yes	Earthen	3.35	50	35
50	Wetland	n/a	n/a	Y	Y	Yes	Earthen	n/a	30	15
51	Tail Ditch	618516, 3624455	618462, 3625080			None	Earthen	0.56	6	4
		618451, 3625199	618438, 3624870					0.22		
52	Head Ditch	618709, 3625206	618827, 3624450			None	Concrete	0.52	6	4
53	Tail Ditch	618047, 3625195	618406, 3625198			Limited	Earthen	0.22	5	2
54	Tail Ditch	618036, 3624421	618032, 3625192			None	Earthen	0.48	6	3
55	Head Ditch	617580, 3624403	617876, 3626867			None	Concrete	1.77	7	5

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
56	Tail Ditch	618265, 3625216	617899, 3626857			None	Earthen	1.26	10	6
		618378, 3625339	618408, 3625350					0.02		
		618237, 3625487	618258, 3625487					0.01		
		618235, 3625842	618254, 3625843					0.01		
57	Drain	617911, 3626885	617573, 3625206	Y	Y	Yes	Earthen	1.22	50	25
58	Drain	619626, 3625206	618652, 3625781	Y	Y	Yes	Earthen	0.32	50	25
59	Head Ditch	618638, 3626583	618647, 3625801			None	Concrete	0.49	6	4
60	Head Ditch	618599, 3626896	618573, 3626568			None	Concrete	0.23	6	4
61	Lateral Canal	618707, 3626582	618591, 3626983	Y	Y	None	Concrete	0.29	8	6
62	Tail Ditch	617935, 3626889	618454, 3625231			None	Earthen	1.19	8	4
64	Drain	622760, 3624958	622750, 3623216	Y	Y	Yes	Earthen	1.09	35	20
65	Head Ditch	622601, 3625193	622604, 3625122			None	Concrete	0.04	6	3
66	Tail Ditch	621634, 3625177	621614, 3625099			None	Earthen	0.06	5	2

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
67	Tail Ditch	621118, 3625025	621625, 3625037			None	Earthen	0.31	6	4
68	Tail Ditch	621103, 3625116	621104, 3625044			None	Earthen	0.04	5	2
72	Head Ditch	620258, 3625300	620258, 3625249			None	Concrete	0.03	7	5
73	Tail Ditch	619872, 3625252	619872, 3625302			None	Earthen	0.03	2	1
74	Head Ditch	619584, 3625244	619825, 3625243			None	Concrete	0.15	6	4
76	Head Ditch	618808, 3625171	618838, 3625287			None	Concrete	0.08	6	4
77	Head Ditch	618645, 3625749	618646, 3625719			None	Concrete	0.02	6	4
		618688, 3625284	618698, 3625234					0.03		
78	Road Ditch	617551, 3626842	617603, 3626784			Limited	Earthen	0.05	6	4
79	Tail Ditch	617599, 3626779	617575, 3626018			None	Earthen	0.49	5	2
80	Tail Ditch	616825, 3625981	617613, 3625998			None	Earthen	0.49	10	6
81	Head Ditch	617568, 3625616	617597, 3625617			None	Concrete	0.02	6	4
82	Head Ditch	617573, 3625233	617596, 3625234			None	Concrete	0.01	6	4

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
83	Tail Ditch	617568, 3625599	617621, 3625600			None	Earthen	0.03	12	1
84	Tail Ditch	617611, 3625181	617617, 3624424			None	Earthen	0.47	4	1
85	Tail Ditch	617640, 3624382	617641, 3624336			None	Earthen	0.03	3	1
86	Head Ditch	618031, 3624383	618032, 3624342			None	Concrete	0.03	6	4
87	Head Ditch	618050, 3624377	618051, 3624342			None	Concrete	0.02	6	4
88	Tail Ditch	618602, 3624413	618603, 3624351			None	Earthen	0.04	8	2
89	Head Ditch	618629, 3624386	618629, 3624351			None	Concrete	0.02	6	4
90	Drain	619261, 3622990	619598, 3622357	Y	Y	Yes	Earthen	0.09	30	18
91	Canal	619572, 3622316	620475, 3622202	Y	Y	Yes	Earthen	0.57	150	120
		615150, 3626451	615223, 3626330					0.09		
92	Tail Ditch	620526, 3623244	620540, 3622734			None	Earthen	0.37	4	1
93	Head Ditch	620507, 3622744	620540, 3622745			None	Concrete	0.02	10	6
94	Tail Ditch	620845, 3623188	620521, 3623198			None	Earthen	0.20	4	1

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
95	Head Ditch	620071, 3623238	620458, 3623242			None	Concrete	0.24	6	4
96	Head Ditch	620237, 3623804	620126, 3623796			None	Concrete	0.05	6	4
97	Tail Ditch	620838, 3623784	620291, 3623776			None	Earthen	0.34	6	2
98	Head Ditch	620546, 3623313	620846, 3623235			None	Concrete/Earthen	0.24	8	3
99	Head Ditch	621095, 3623240	621361, 3623179			None	Concrete	0.20	6	4
100	Tail Ditch	621879, 3623215	622677, 3623222			Yes	Earthen	0.50	30	15
101	Tail Ditch	621878, 3623519	621121, 3623510			None	Earthen	0.47	4	1
102	Head Ditch	621687, 3623849	621165, 3623786			None	Concrete	0.26	6	4
		621440, 3623584	621442, 3623526					0.04		
103	Tail Ditch	621140, 3623815	621173, 3624183			None	Earthen	0.23	2	1
104	Head Ditch	621082, 3624206	621636, 3624209			None	Concrete	0.34	6	4
105	Head Ditch	620315, 3624199	621082, 3624206			None	Concrete	0.48	6	4
106	Tail Ditch	621047, 3624588	620294, 3624582			None	Earthen	0.04	6	5

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
107	Head Ditch	620316, 3624600	620349, 3624600	Y		Yes	Earthen	0.02	6	4
		621082, 3624610	621031, 3624608					0.03		
108	Tail Ditch	620291, 3624584	621051, 3624993			None	Earthen	0.47	8	3
109	Tail Ditch	621117, 3624584	621614, 3624744			None	Earthen	0.36	2	1
110	Drain	616770, 3626469	616774, 3626007	Y	Y	Yes	Earthen	0.29	30	15
111	Drain	615213, 3626452	615356, 3626332	Y	Y	Yes	Earthen	0.12	40	20
113	Head Ditch	622695, 3624226	622668, 3624901			None	Concrete	0.43	6	4
114	Canal	615185, 3626452	615292, 3626331	Y	Y	None	Concrete	0.10	20	12
115	Canal	616806, 3626469	616811, 3625944	Y	Y	None	Concrete	0.33	10	6
116	Lateral Canal	617204, 3626068	616814, 3625979			None	Concrete	0.29	8	4
118	Tail Ditch	616763, 3625983	616785, 3625951			None	Earthen	0.03	8	2
119	Head Ditch	616819, 3626468	616813, 3625996			None	Concrete	0.30	6	4
121	Tail Ditch	616018, 3626387	616771, 3626394			None	Earthen	0.47	8	2

Feature ID	Type	Coordinates (UTM, NAD 83 Zone 11N, m)		Jurisdictional Status		Riparian Vegetation	Substrate	Length (within Study Area; mi)	Trapezoidal Dimensions (ft)	
		Start	End	CDFG	ACOE				Bank to Bank	Channel Bottom
122	Head Ditch	616009, 3626338	616738, 3626403			None	Concrete/Earthen	0.49	6	4
123	Tail Ditch	615609, 3626376	615986, 3626462			None	Earthen	0.28	12	10
124	Head Ditch	615227, 3626385	615974, 3626393			None	Earthen	0.46	10	4
125	Tail Ditch	615597, 3626458	615599, 3626389			None	Earthen	0.04	4	2
126	Tail Ditch	615592, 3626387	615604, 3626334			None	Earthen	0.03	4	3
127	Head Ditch	615245, 3626452	615339, 3626385			None	Concrete	0.07	6	4

Appendix B

Photographs

Drainage #1 – Photo 1



Drainage #2 – Photo 2



Drainage #2 – Photo 5



Drainage #4 – Photo 3



Drainage #4 – Photo 4



Drainage #5 – Photo 6



Drainage #6 – Photo 7



Drainage #6 – Photo 8



Drainage #6 – Photo 17



Drainage #6 – Photo 18



Drainage #7 – Photo 9



Drainage #8 – Photo 10



Drainage #9 – Photo 12



Drainage #10 – Photo 14



Drainage 11A – Photo 162



Drainage #11B – Photo 15



Drainage #12 – Photo 11



Drainage #12 – Photo 13



Drainage #13 – Photo 16



Drainage #14 – Photo 19



Drainage #15 – Photo 20



Drainage #16 – Photo 21



Drainage #17 – Photo 22



Drainage #18 – Photo 23



Drainage #19 – Photo 24



Drainage #20 – Photo 25



Drainage #21 – Photo 26



Drainage #22 – Photo 40



Drainage #22 – Photo 41



Drainage #23 – Photo 42



Drainage #24 – Photo 43



Drainage #25 – Photo 44



Drainage #26 – Photo 45



Drainage #27 – Photo 46



Drainage #27 – Photo 47



Drainage #27 – Photo 50



Drainage #27 – Photo 51



Drainage #27 – Photo 146



Drainage #27 – Photo 147



Drainage #29 – Photo 49



Drainage #30 – Photo 52



Drainage #30 – Photo 53



Drainage #31 – Photo 54



Drainage #31 – Photo 55



Drainage #32 – Photo 57



Drainage #33 – Photo 56



Drainage #34 – Photo 60



Drainage #35 – Photo 61



Drainage #36 – Photo 62



Drainage #37 – Photo 63



Drainage #38 – Photo 65



Drainage #39 – Photo 64



Drainage #40 – Photo 66



Drainage #41 – Photo 67



Drainage #42 – Photo 68



Drainage #43 – Photo 69



Drainage #44 – Photo 70



Drainage #45 – Photo 71



Drainage #46 – Photo 72



Drainage #47 – Photo 73



Drainage #48 – Photo 74



Drainage #48 – Photo 75



Drainage #49 – Photo 76



Drainage #49 – Photo 77



Drainage #50 – Photo 78



Drainage #50 – Photo 144



Drainage #51 – Photo 79



Drainage #52 – Photo 80



Drainage #53 – Photo 81



Drainage #54 – Photo 82



Drainage #55 – Photo 83



Drainage #55 – Photo 86



Drainage #56 – Photo 84



Drainage #56 – Photo 143



Drainage #57 – Photo 85



Drainage #58 – Photo 58



Drainage #58 – Photo 59



Drainage #58 – Photo 88



Drainage #58 – Photo 145



Drainage #59 – Photo 89



Drainage #60 – Photo 92

