SOUTHERN CALIFORNIA EDISON Bishop Creek Hydroelectric Project (FERC Project No. 1394)



Final LICENSE APPLICATION VOLUME II



June 2022

FERC Project No. 1394

LIST OF EXHIBITS

Exhibit E Appendices G through J

SOUTHERN CALIFORNIA EDISON

Bishop Creek Hydroelectric Project (FERC Project No. 1394)

FINAL LICENSE APPLICATION

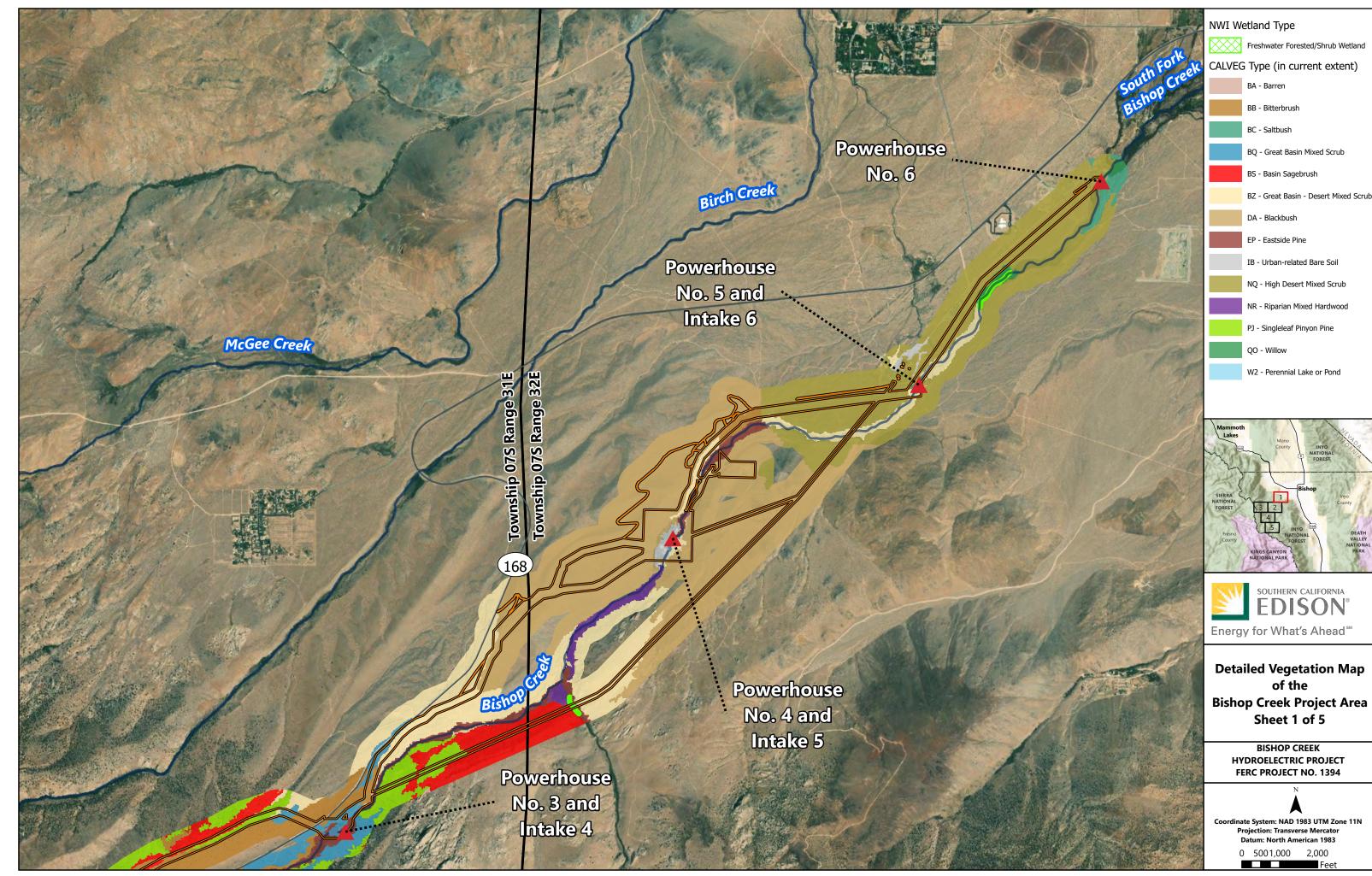
APPENDIX G

FLOODPLAIN, WETLAND, AND RIPARIAN PLANT COMMUNITIES WITHIN A 200-FOOT BUFFER OF PROJECT FACILITIES

June 2022

Support from:





| ,, |
|--|
| BA - Barren |
| BB - Bitterbrush |
| BC - Saltbush |
| BQ - Great Basin Mixed Scrub |
| BS - Basin Sagebrush |
| BZ - Great Basin - Desert Mixed Scrub |
| DA - Blackbush |
| EP - Eastside Pine |
| IB - Urban-related Bare Soil |
| NQ - High Desert Mixed Scrub |
| NR - Riparian Mixed Hardwood |
| PJ - Singleleaf Pinyon Pine |
| QO - Willow |
| W2 - Perennial Lake or Pond |

Birch Creek



No. 3 and Call Care Intake 4

Township 07S Range 31E Township 07S Range 32E

Township 07S Range 31E Township 08S Range 31E

Powerhouse No. 2 and Intake 3

Bishop Creek Intake No. 2 Dam

iddle Fork

Intake 2 Reservoir

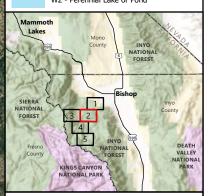
168

<u> Iownship 08S Range</u> Range hip 08S

Powerhouse

Township 07S Range 32E Township 08S Range 32E

| NWI Wetland Type | | | | |
|---------------------------------|---------------------------------------|--|--|--|
| $\times\!\!\times\!\!\times$ | Freshwater Forested/Shrub Wetland | | | |
| \times | Riverine | | | |
| CALVEG Type (in current extent) | | | | |
| | BA - Barren | | | |
| | BB - Bitterbrush | | | |
| | BM - Curlleaf Mountain Mahogany | | | |
| | BQ - Great Basin Mixed Scrub | | | |
| | BS - Basin Sagebrush | | | |
| | BZ - Great Basin - Desert Mixed Scrub | | | |
| | DA - Blackbush | | | |
| | EP - Eastside Pine | | | |
| | HG - Annual Grasses and Forbs | | | |
| | HJ - Wet Meadows | | | |
| | HM - Perennial Grasses and Forbs | | | |
| | IB - Urban-related Bare Soil | | | |
| | IW - Urban or Industrial Impoundment | | | |
| | NR - Riparian Mixed Hardwood | | | |
| | PJ - Singleleaf Pinyon Pine | | | |
| | QQ - Quaking Aspen | | | |
| | W2 - Perennial Lake or Pond | | | |





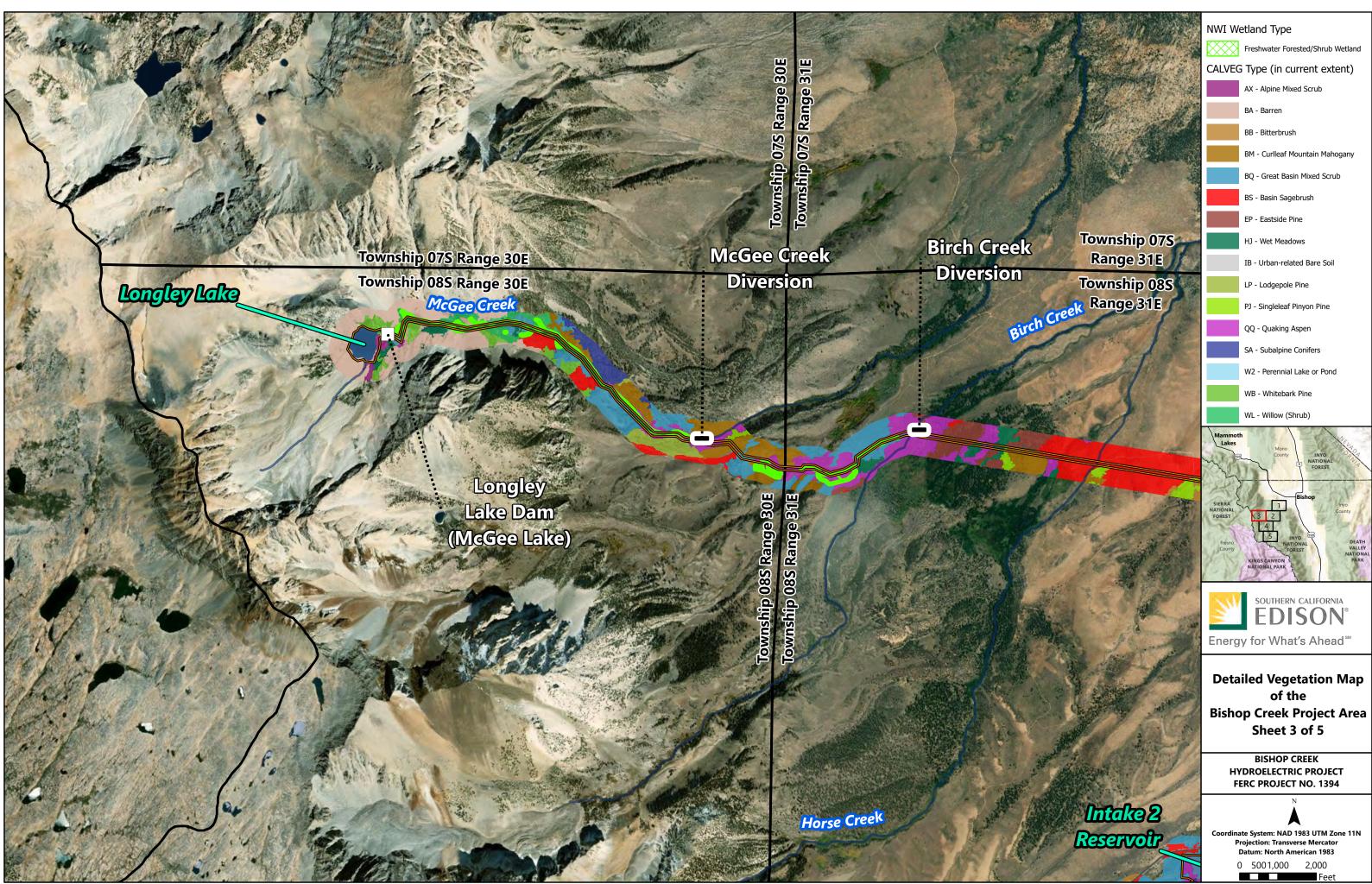
Detailed Vegetation Map of the **Bishop Creek Project Area** Sheet 2 of 5

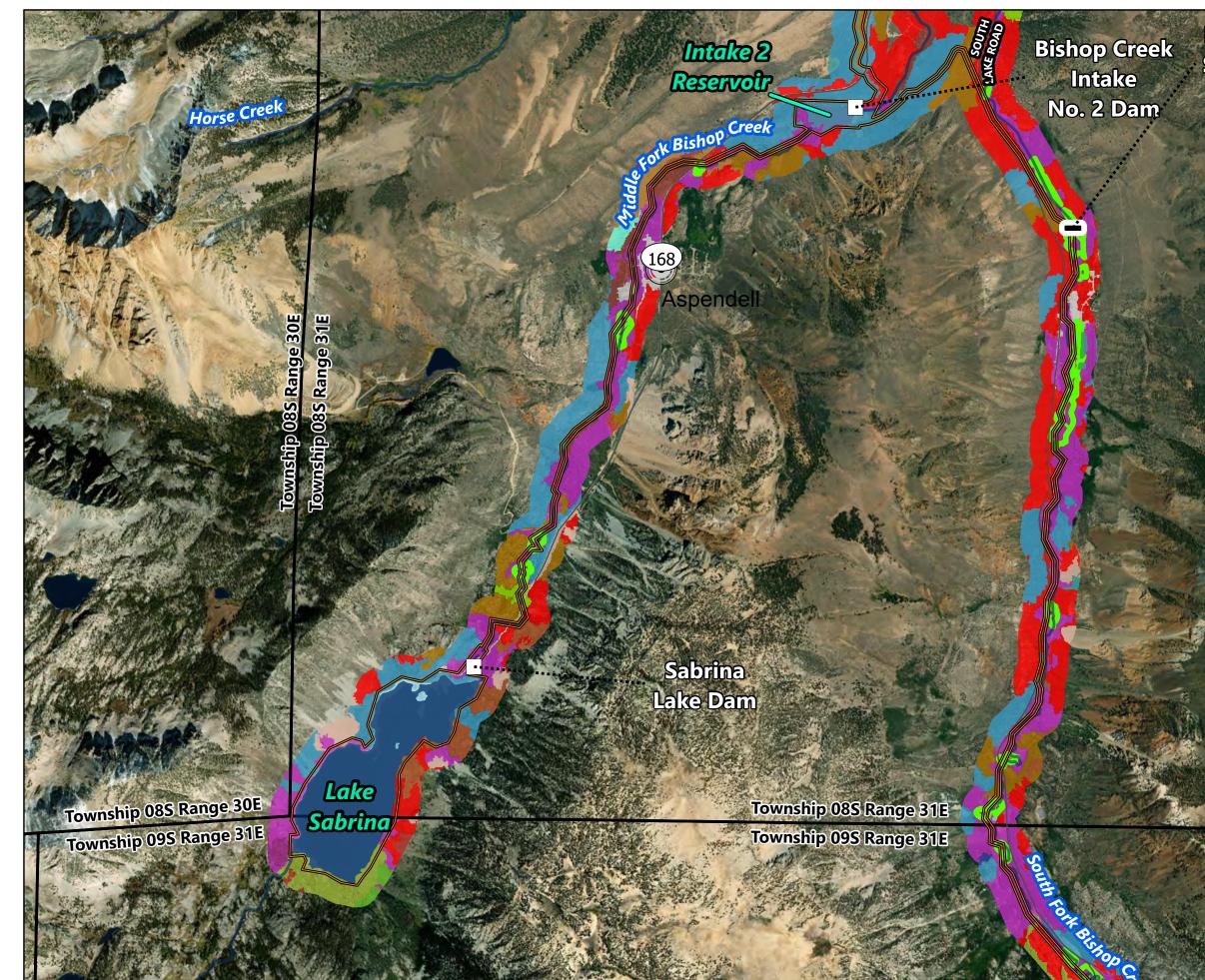
> **BISHOP CREEK** HYDROELECTRIC PROJECT FERC PROJECT NO. 1394



Coordinate System: NAD 1983 UTM Zone 11N Projection: Transverse Mercator Datum: North American 1983

> 0 5001,000 2,000



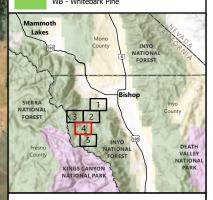


Bishop Crk South Fork Diversion

| NW/T | Wetland | Type |
|-------|----------|------|
| INAAT | vectariu | Type |

Freshwater Forested/Shrub Wetland CALVEG Type (in current extent)

| ALVEG Type (in current extent) | | | |
|--------------------------------|----------------------------------|--|--|
| | AC - Alpine Grasses and Forbs | | |
| | AX - Alpine Mixed Scrub | | |
| | BA - Barren | | |
| | BB - Bitterbrush | | |
| | BM - Curlleaf Mountain Mahogany | | |
| | BQ - Great Basin Mixed Scrub | | |
| | BS - Basin Sagebrush | | |
| | EP - Eastside Pine | | |
| | HG - Annual Grasses and Forbs | | |
| | HM - Perennial Grasses and Forbs | | |
| | IB - Urban-related Bare Soil | | |
| | LP - Lodgepole Pine | | |
| | PJ - Singleleaf Pinyon Pine | | |
| | PL - Limber Pine | | |
| | QC - Canyon Live Oak | | |
| | QQ - Quaking Aspen | | |
| | SA - Subalpine Conifers | | |
| | W2 - Perennial Lake or Pond | | |
| | WB - Whitebark Pine | | |





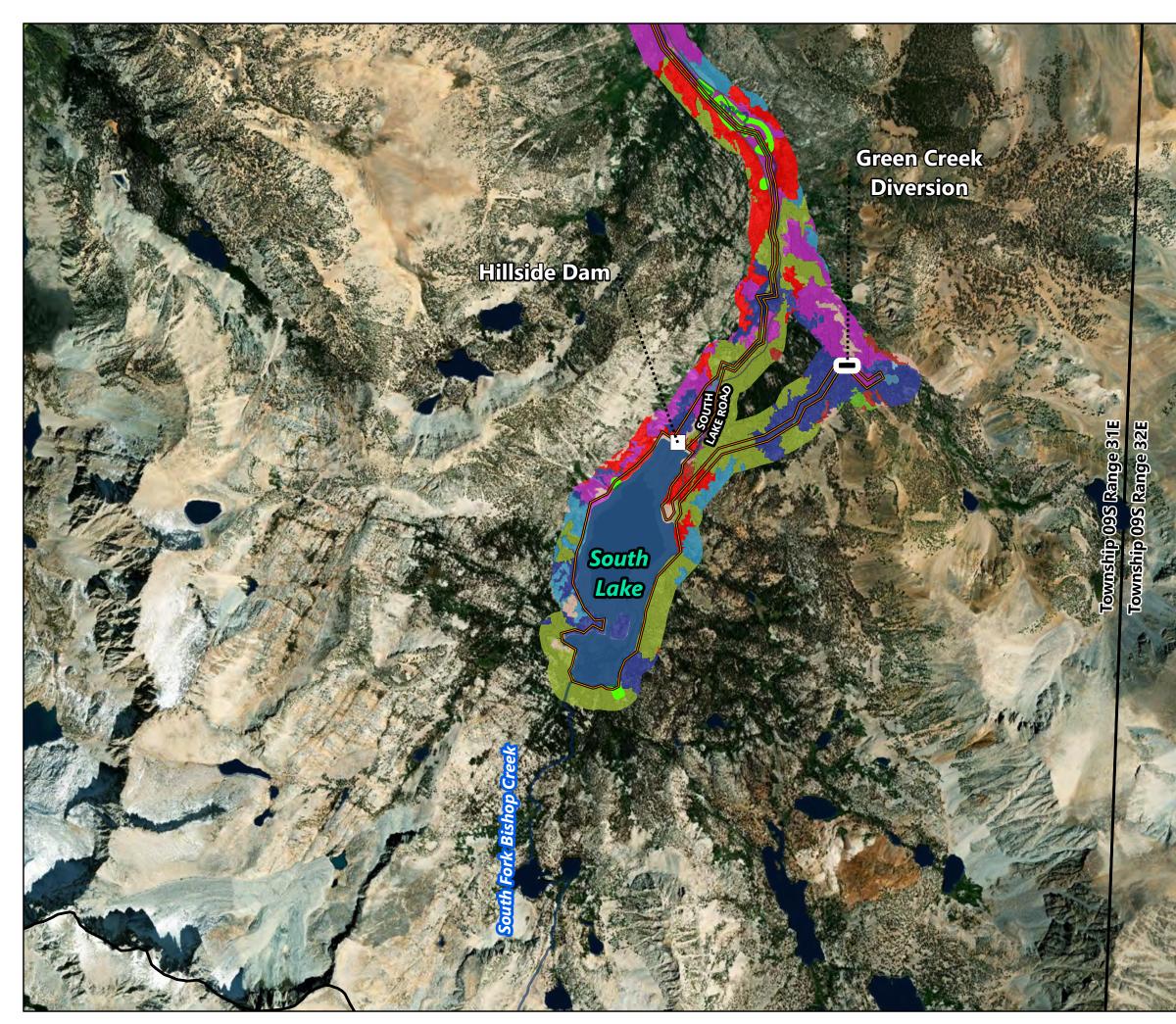
Detailed Vegetation Map of the Bishop Creek Project Area Sheet 4 of 5

> BISHOP CREEK HYDROELECTRIC PROJECT FERC PROJECT NO. 1394



Coordinate System: NAD 1983 UTM Zone 11N Projection: Transverse Mercator Datum: North American 1983

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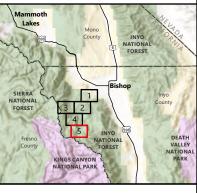


NWI Wetland Type

Freshwater Forested/Shrub Wetland

CALVEG Type (in current extent)

- AC Alpine Grasses and Forbs BA - Barren BQ - Great Basin Mixed Scrub BS - Basin Sagebrush
 - LP Lodgepole Pine
 - QQ Quaking Aspen
 - SA Subalpine Conifers
 - W2 Perennial Lake or Pond
 - WB Whitebark Pine





Detailed Vegetation Map of the Bishop Creek Project Area Sheet 5 of 5

BISHOP CREEK HYDROELECTRIC PROJECT FERC PROJECT NO. 1394



Feet

Coordinate System: NAD 1983 UTM Zone 11N Projection: Transverse Mercator Datum: North American 1983

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SOUTHERN CALIFORNIA EDISON

Bishop Creek Hydroelectric Project (FERC Project No. 1394)

FINAL LICENSE APPLICATION

APPENDIX H

SUPPLEMENTAL INFORMATION AND SUPPORTING GRAPHS: RESULTS OF BLACK COTTONWOOD ANALYSIS

June 2022

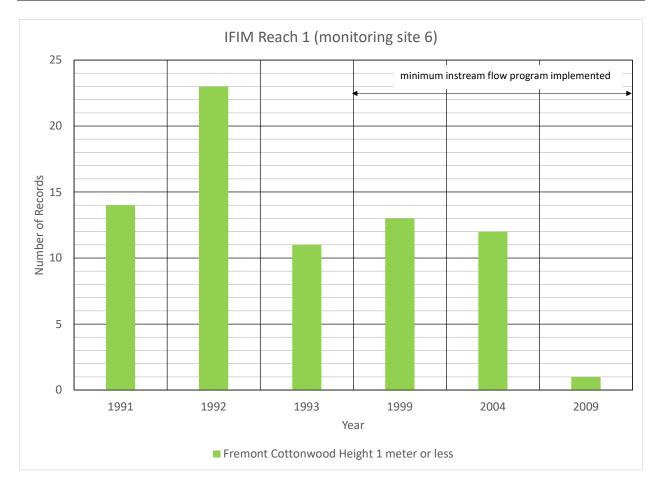
Support from:



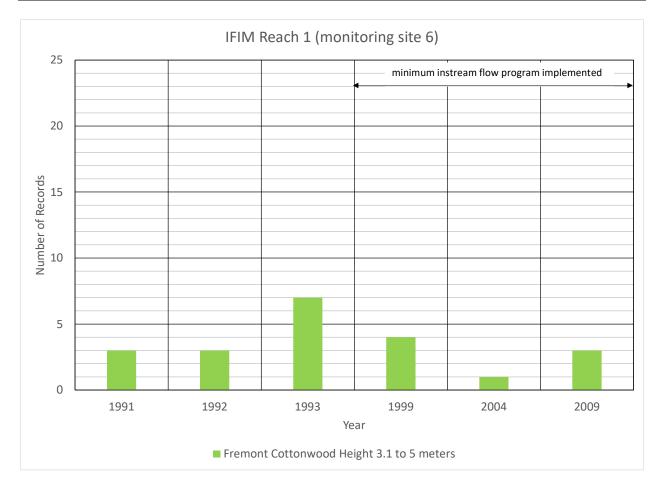
This document provides data in response to a request from USFS at the May 25, 2022, Bishop Creek FERC Relicensing Protection, Mitigation, and Enhancement (PM&E) meeting. That request was to revise the graphs of *Populus* height data from the riparian monitoring sites in a way that would make it easier to evaluate trends over time for each height class. These graphs are provided on the following pages for the *Populus* species measured in the riparian monitoring transects: aspen (*P. tremuloides*), black cottonwood (*Populus trichocarpa*), and Fremont cottonwood (*Populus fremontii*). The presence of each species varies with reach.

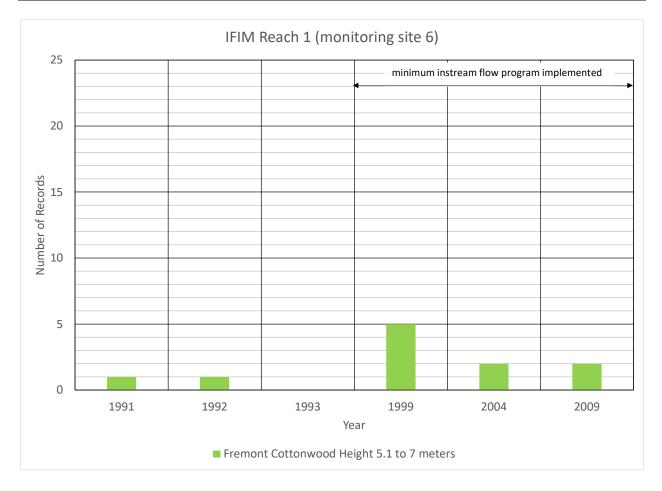
To re-summarize important background information presented with the previous set of graphs of canopy cover and height of woody riparian species:

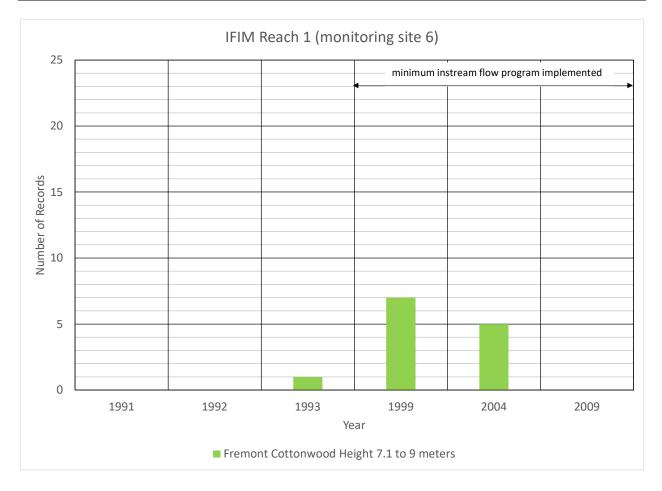
- No riparian monitoring sites were established in IFIM reaches 3, 8, or 10 due to potential influence from unregulated tributaries that would confound efforts to isolate Project effects on riparian vegetation.
- Sites in IFIM reaches 1 and 4 were not monitored after 2009 due to significant human disturbance. The monitoring site that extended across IFIM reaches 7 and 9 at Big Trees campground was not monitored after 2009 due to improvements to the restroom facility there that lowered the groundwater table and added to the human disturbance already present in the form of vandalism of equipment and trampling of vegetation on the stream banks.

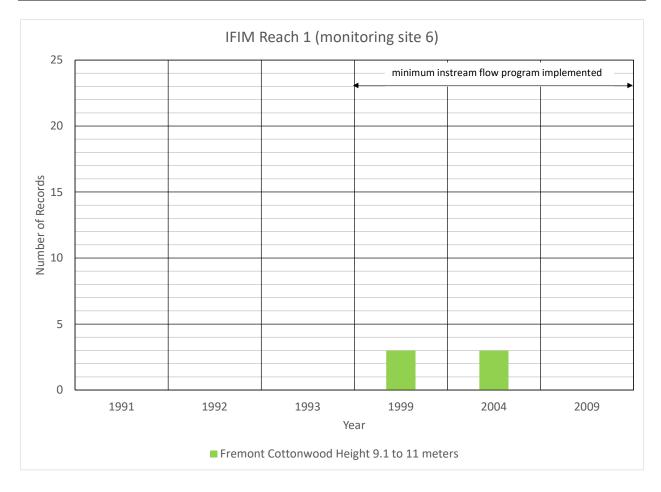


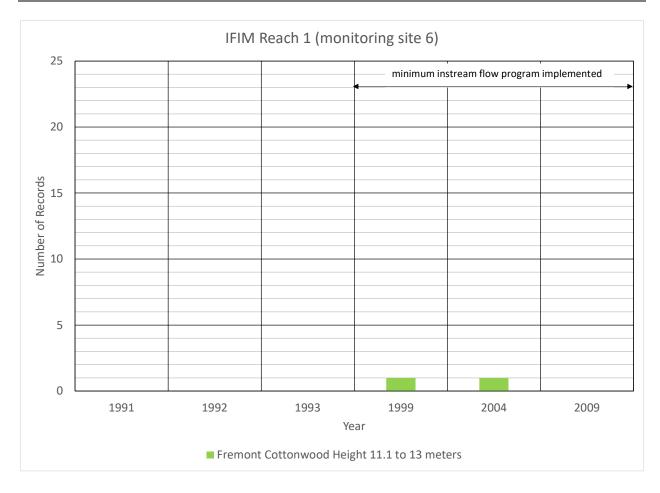


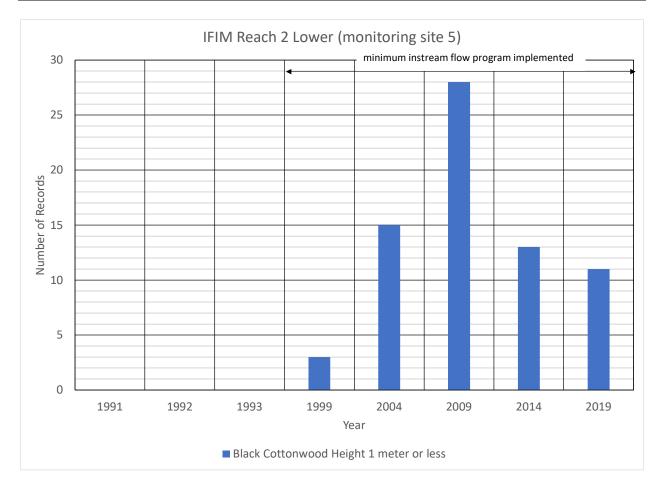


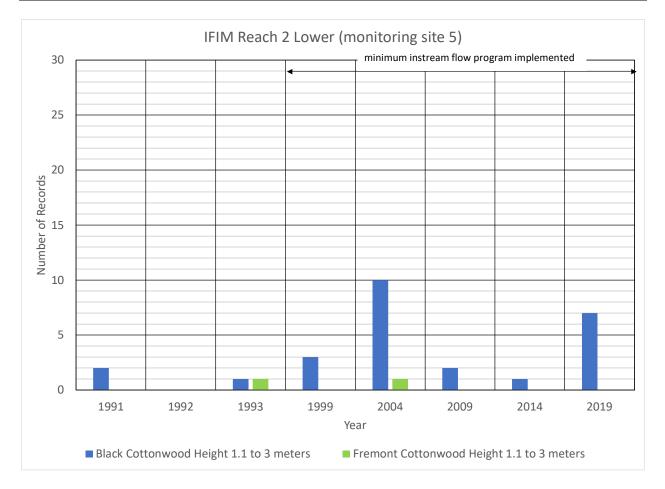


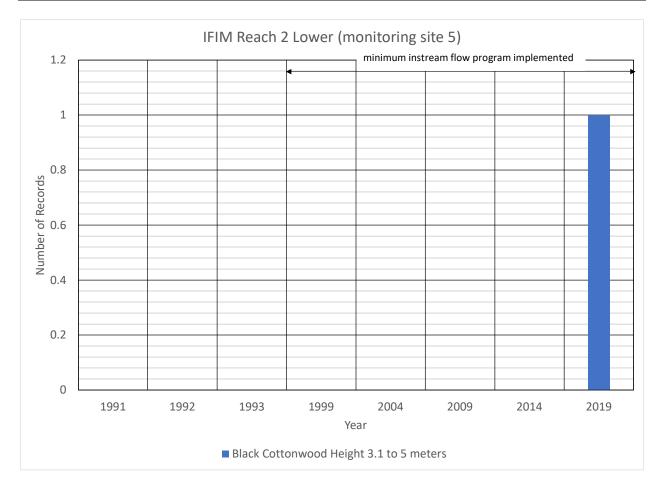


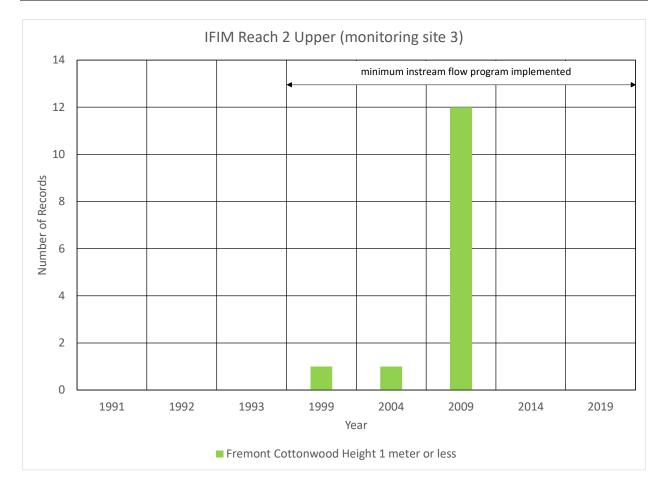


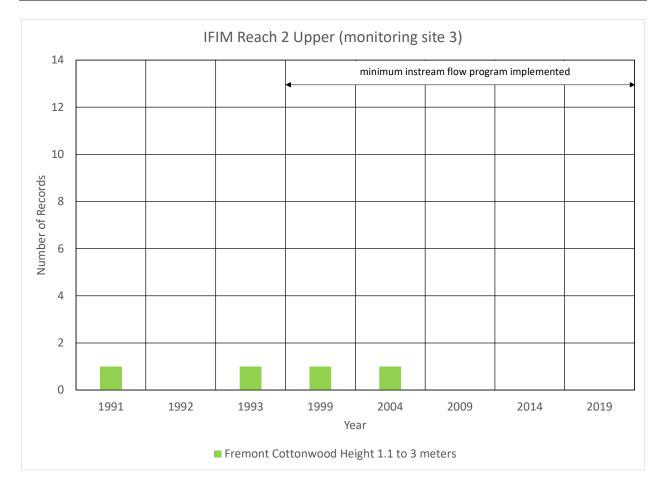


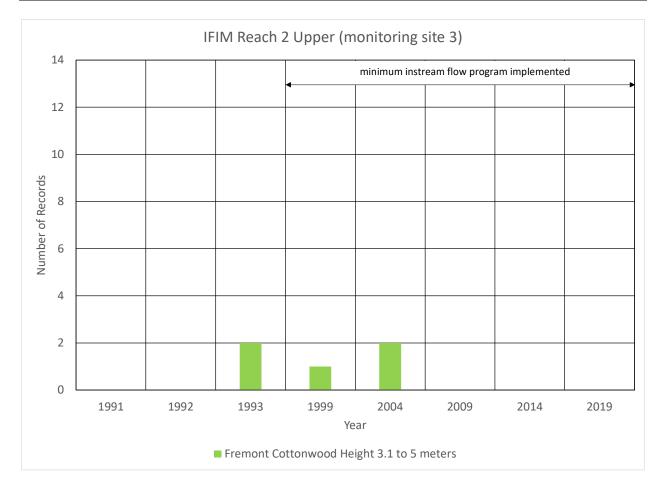


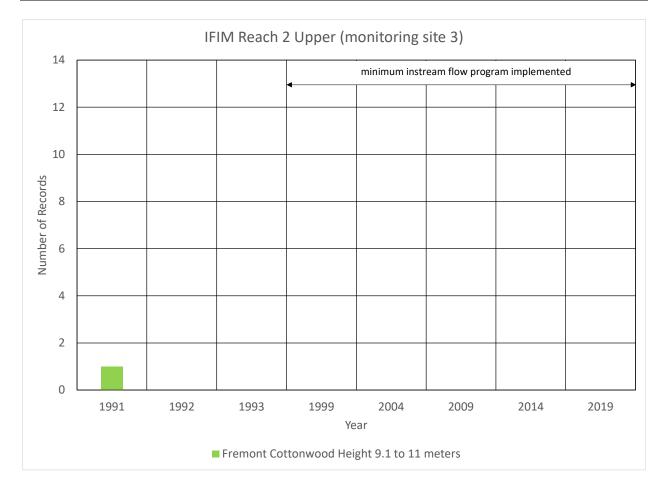


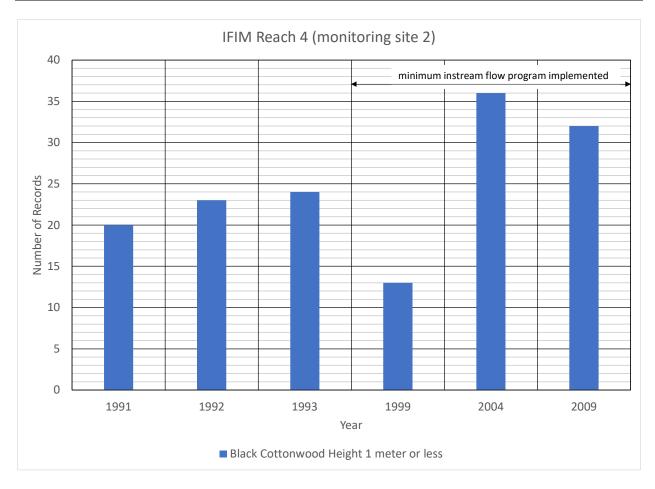


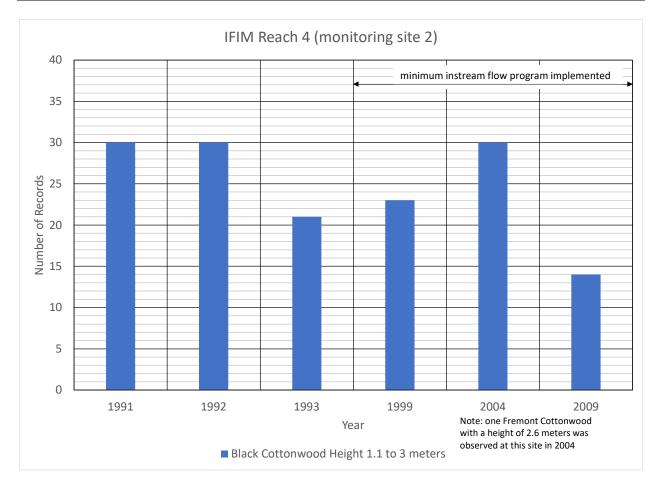


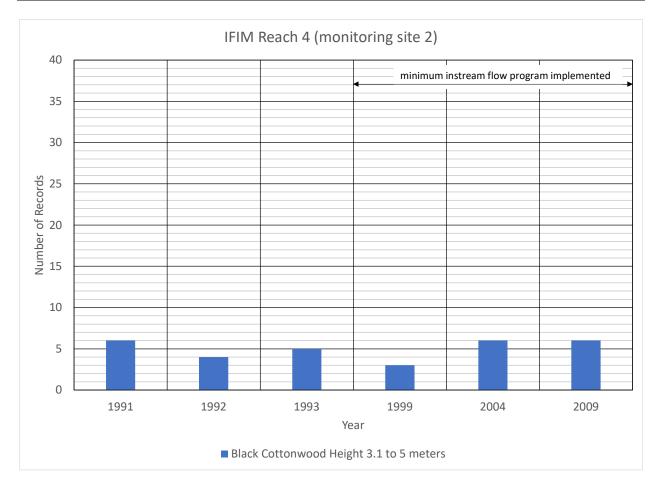


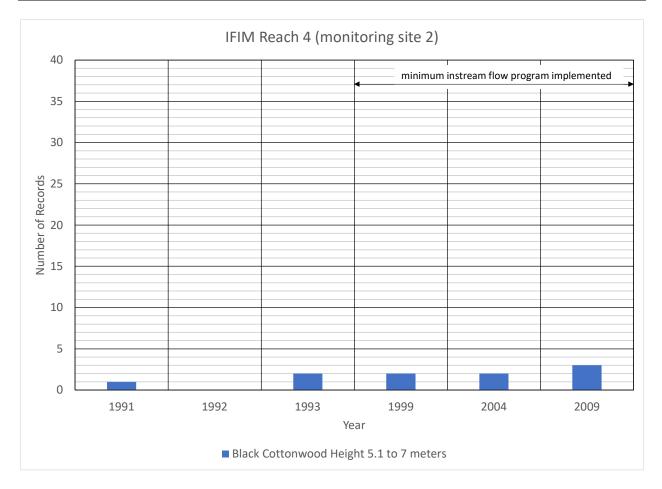


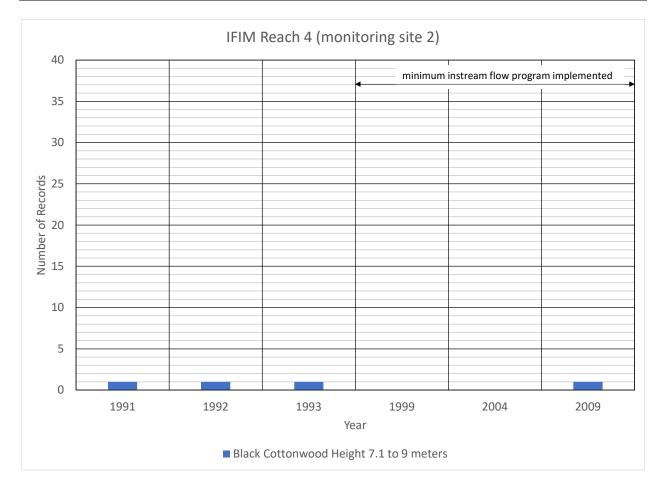


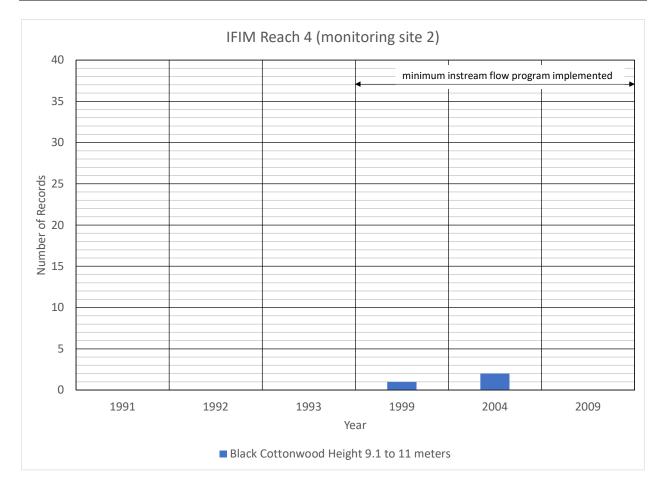


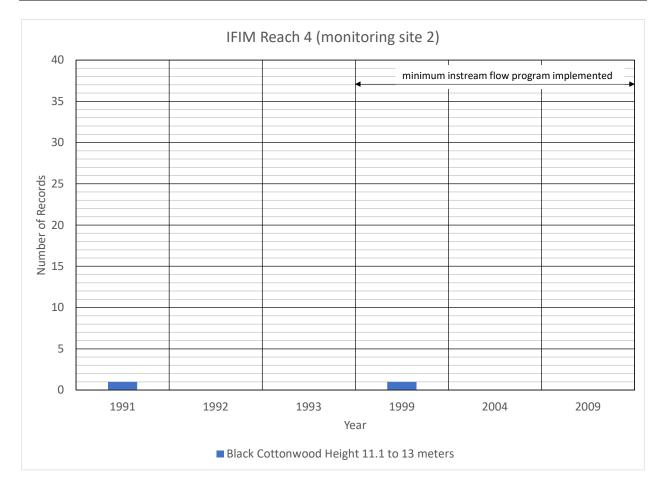


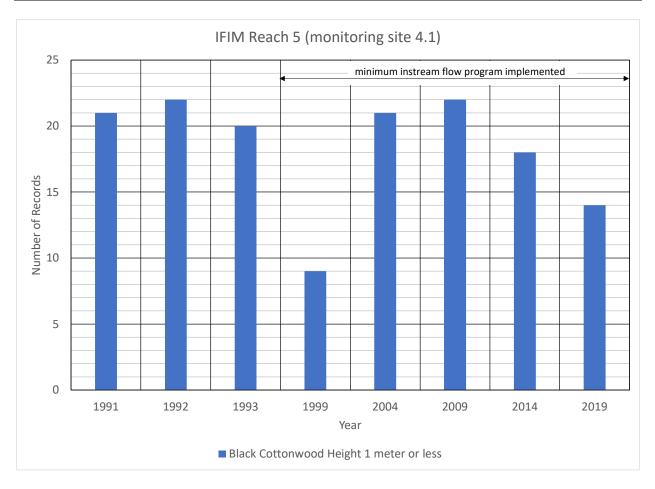


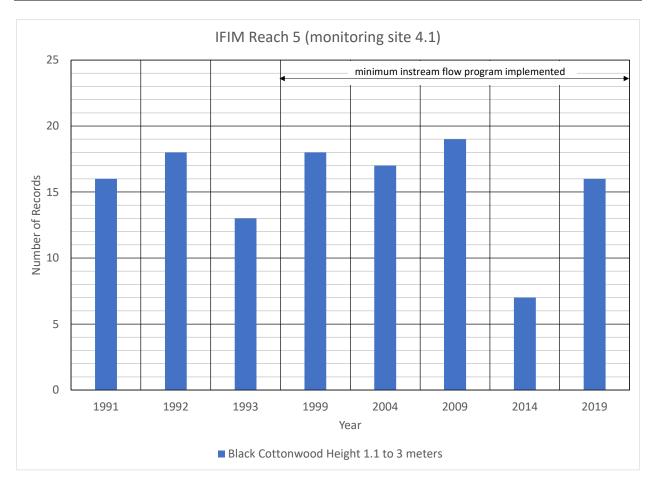


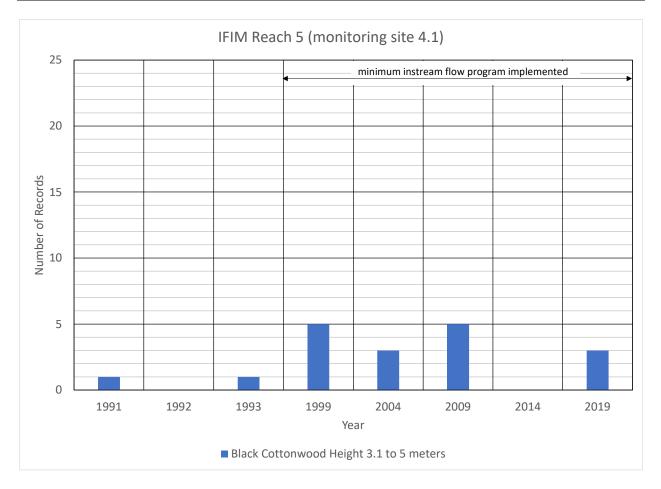


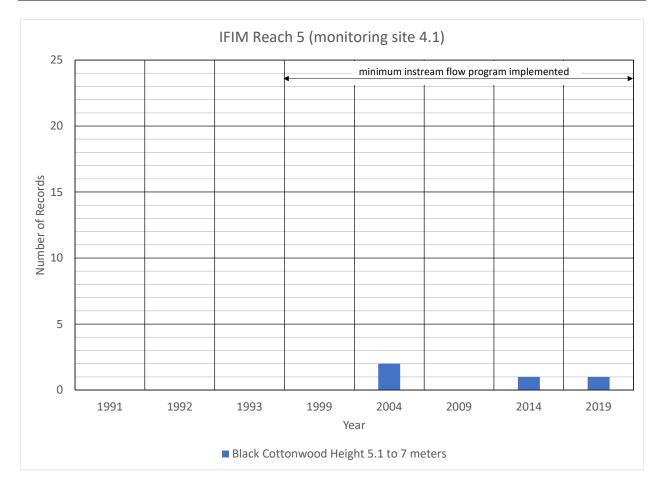


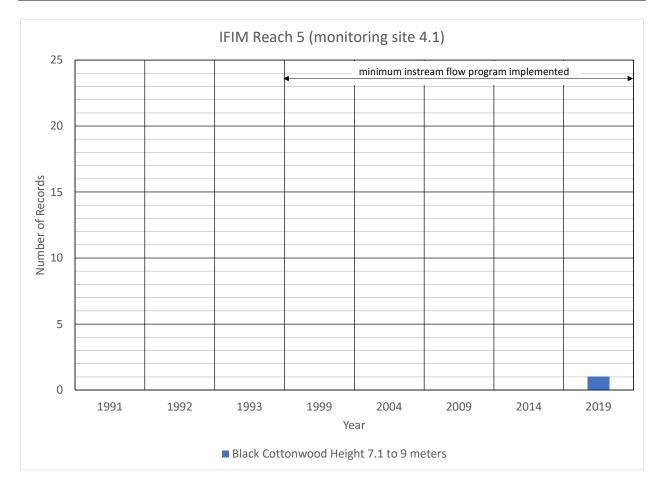


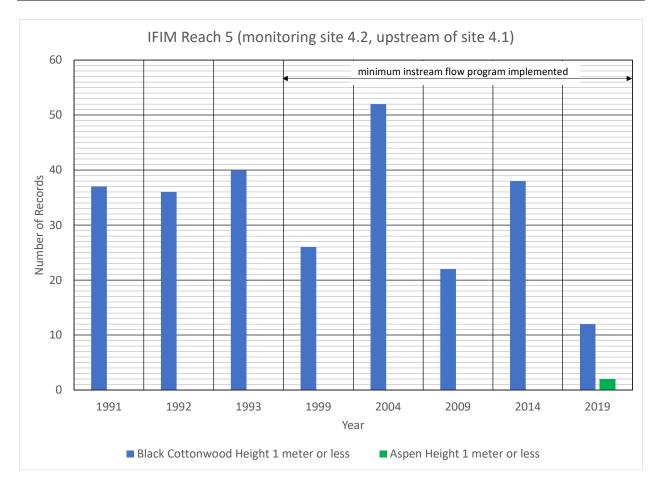


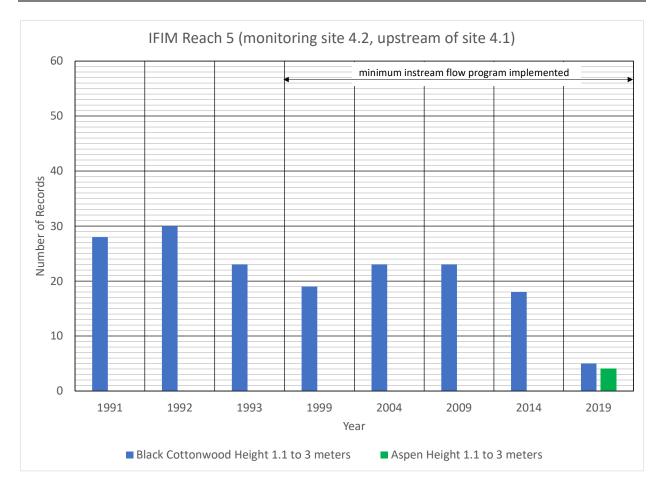


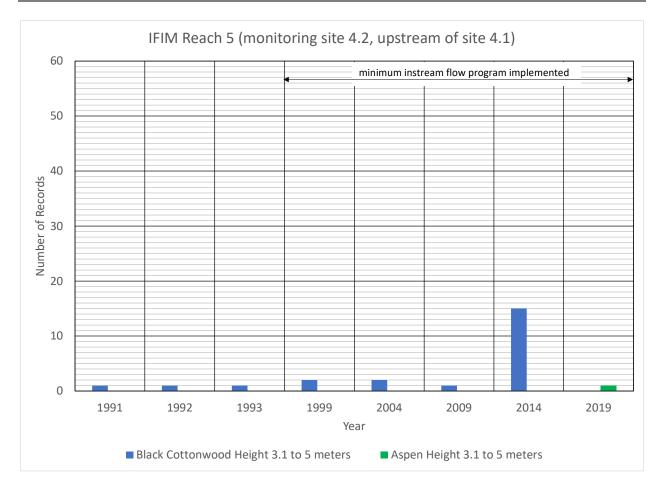


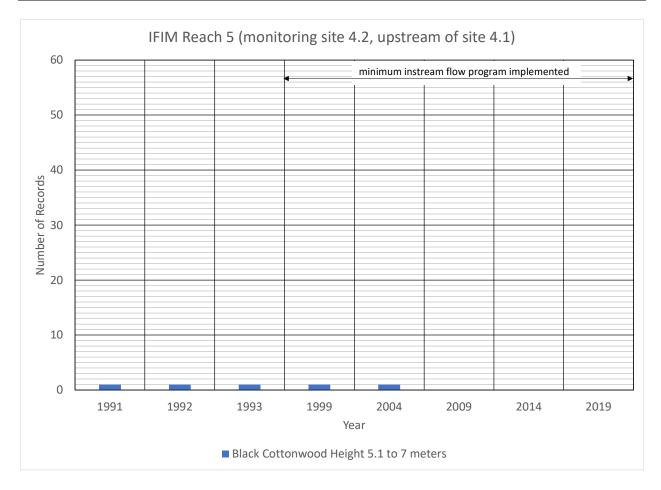


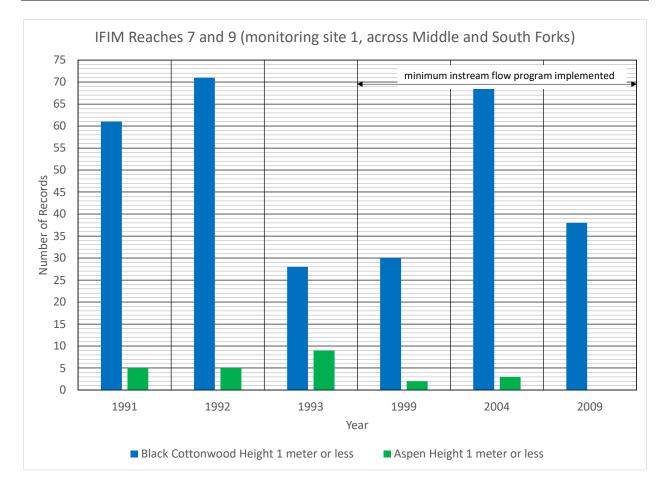


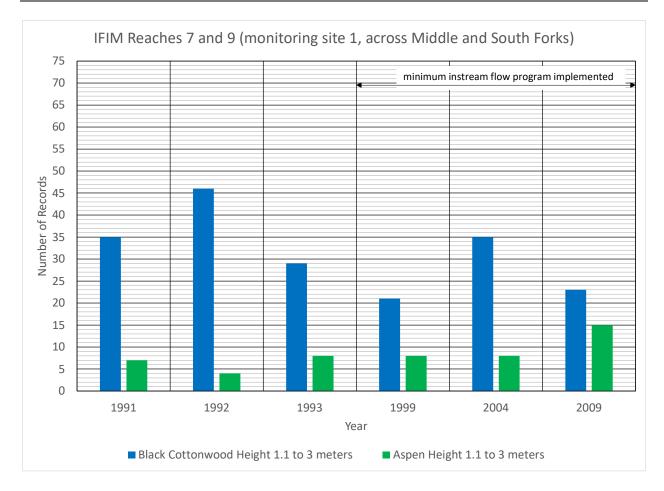


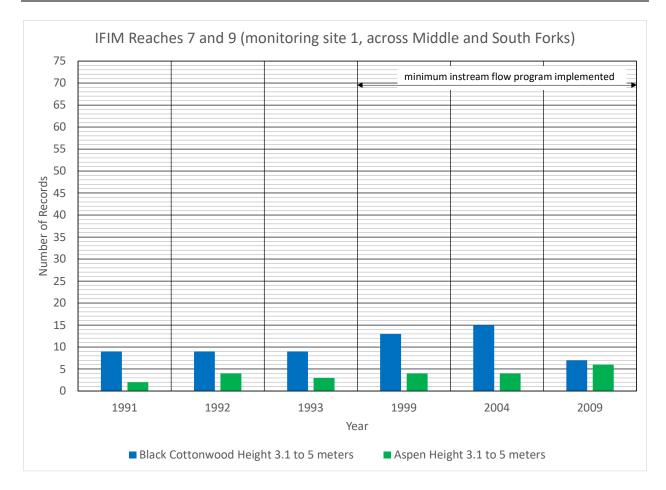


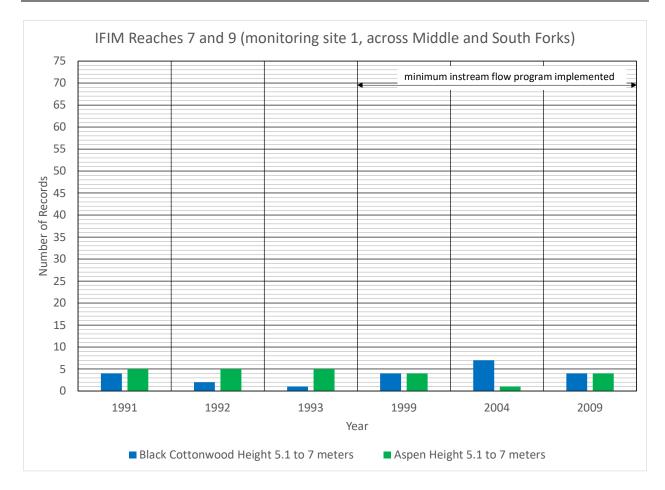


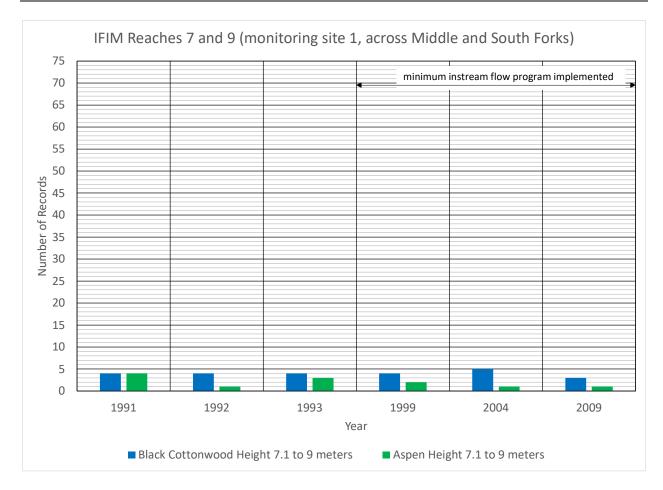


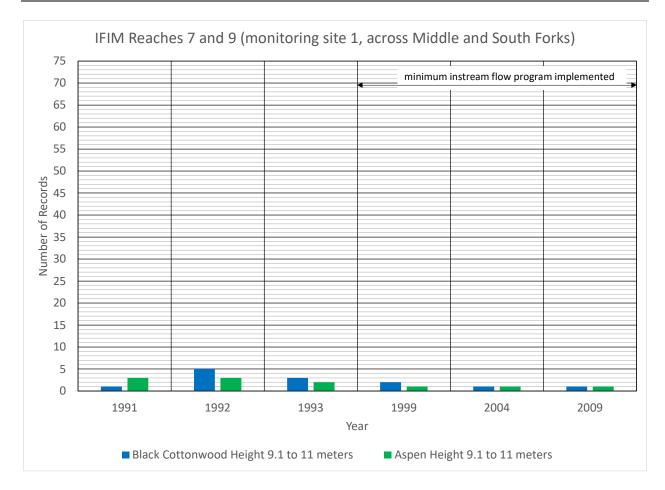


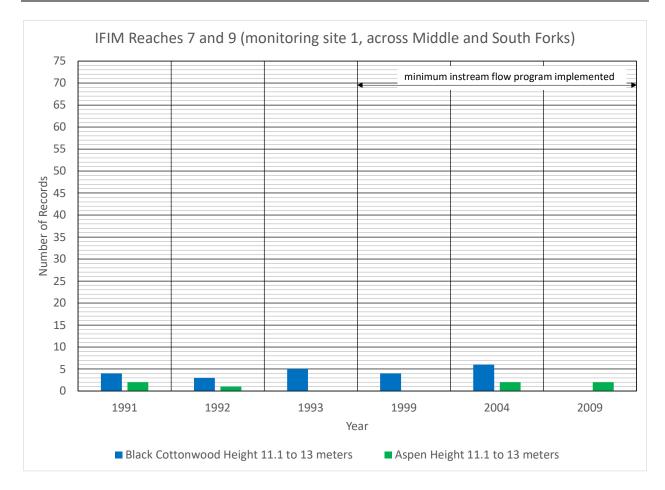


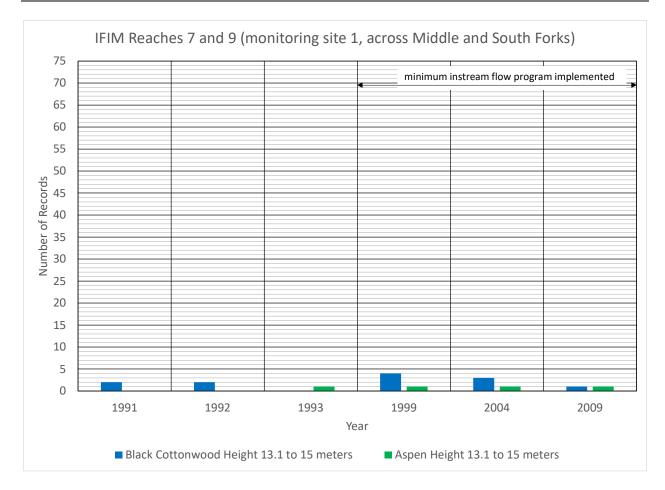


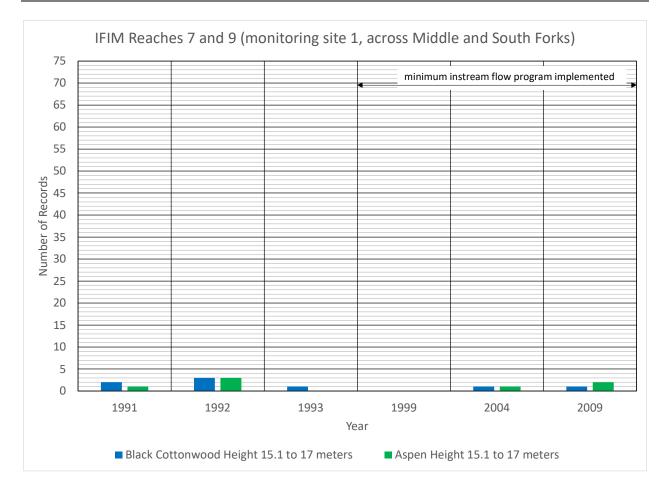


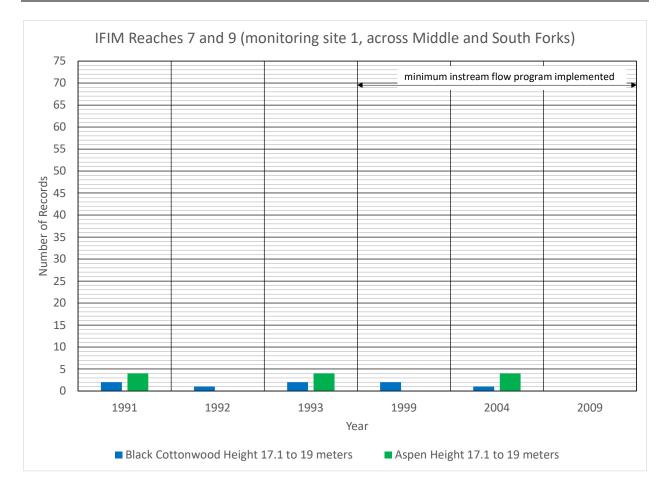


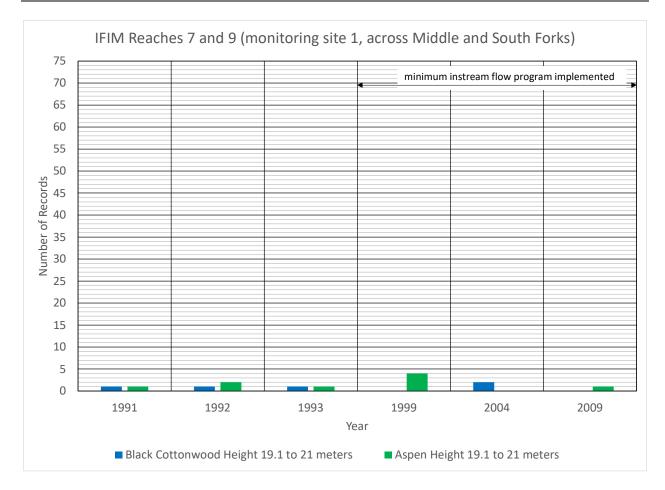


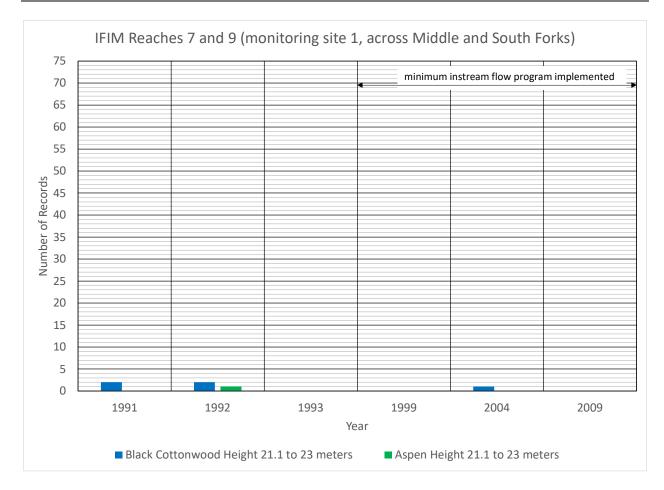


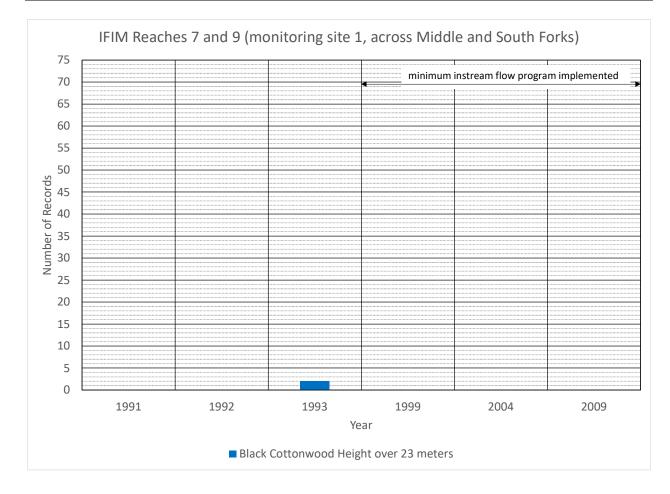












SOUTHERN CALIFORNIA EDISON

Bishop Creek Hydroelectric Project (FERC Project No. 1394)

FINAL LICENSE APPLICATION

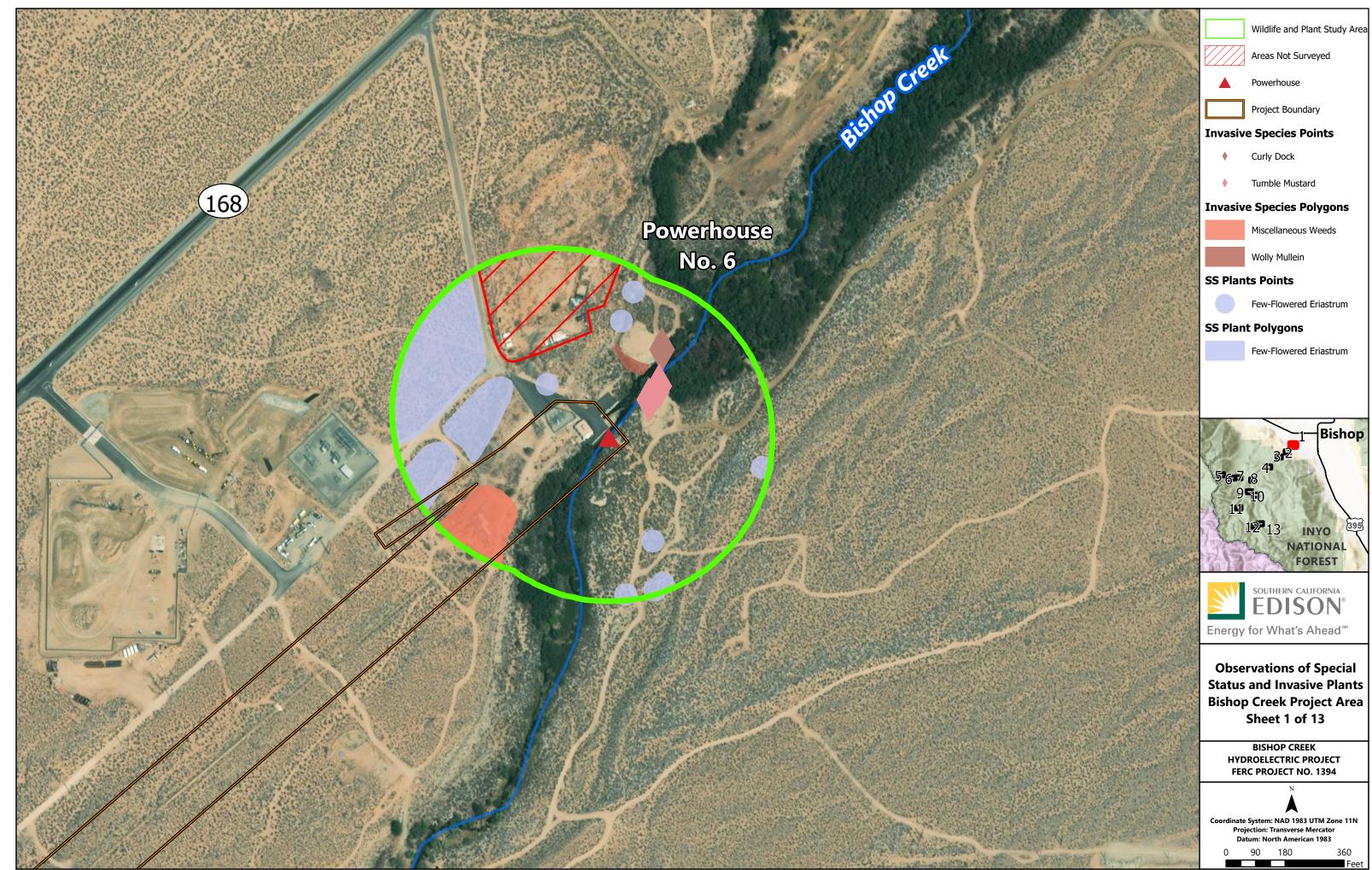
APPENDIX

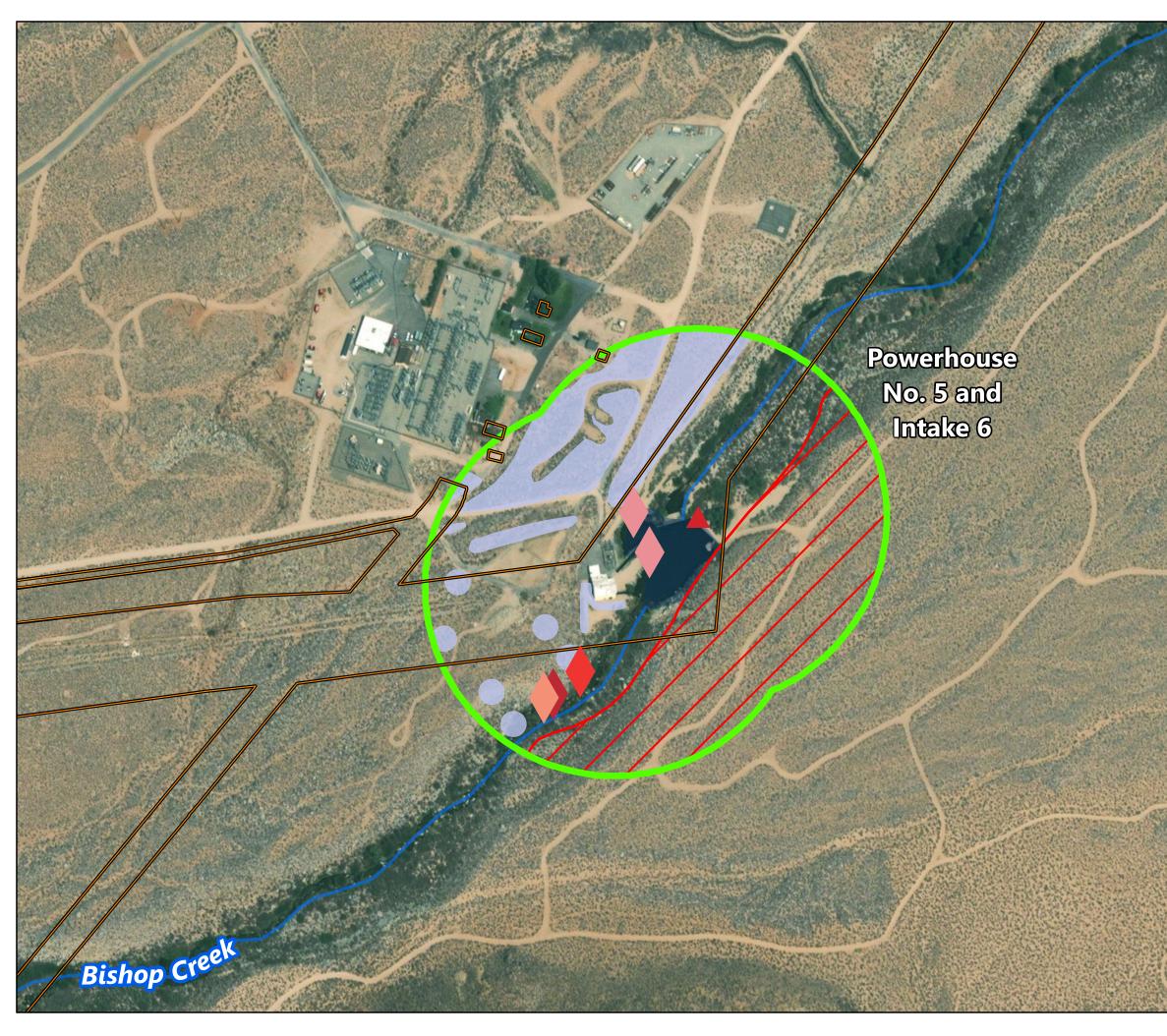
SPECIAL STATUS AND INVASIVE PLANTS IN THE BISHOP CREEK PROJECT AREA

June 2022

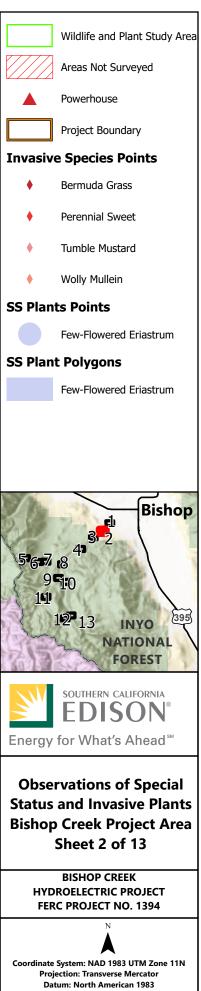
Support from:

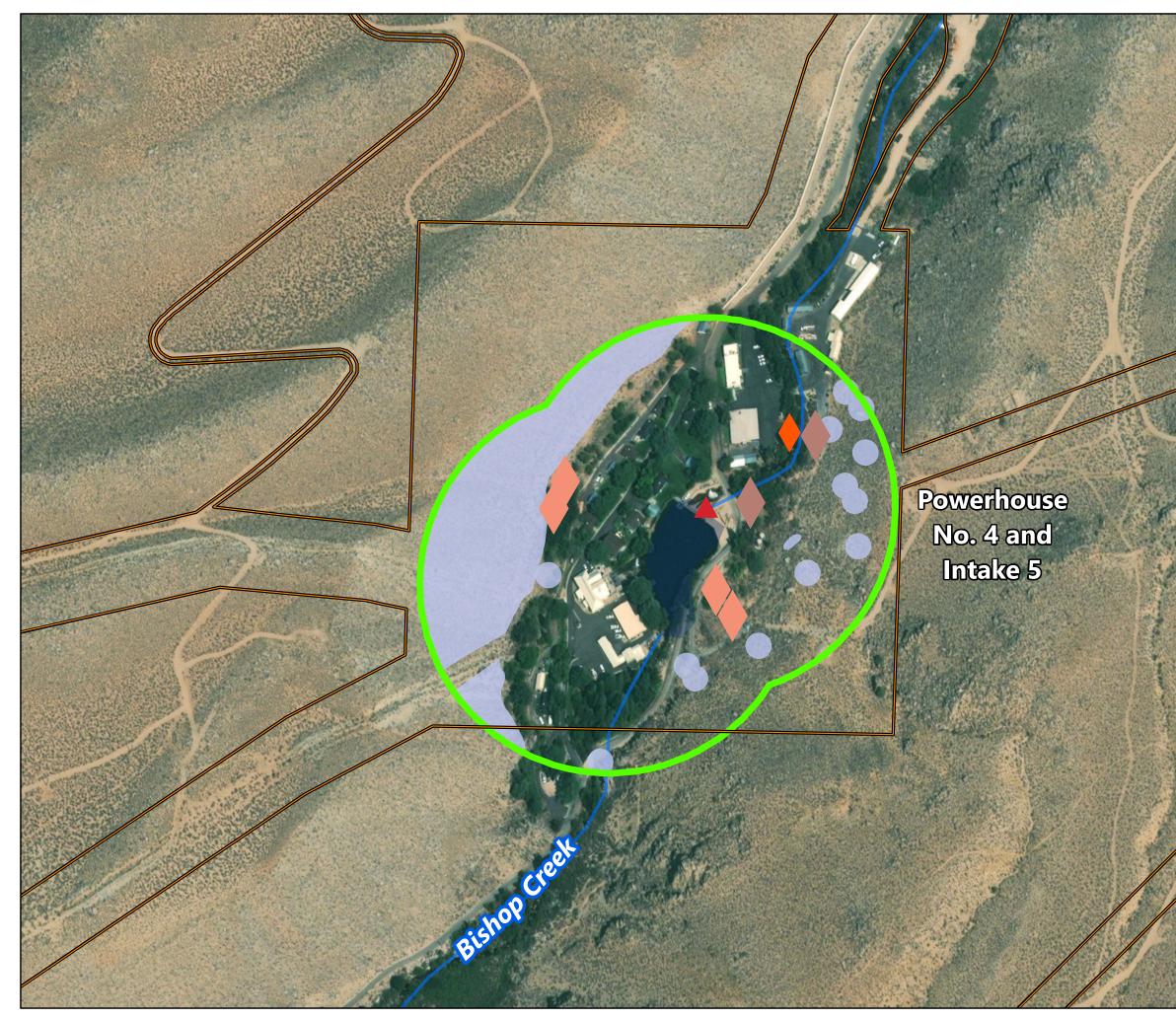














Wildlife and Plant Study Area

- Powerhouse
 - Project Boundary

Invasive Species Points

- Curly Dock
- Wolly Mullein
- Black Locust

SS Plants Points

Few-Flowered Eriastrum

SS Plant Polygons

Few-Flowered Eriastrum

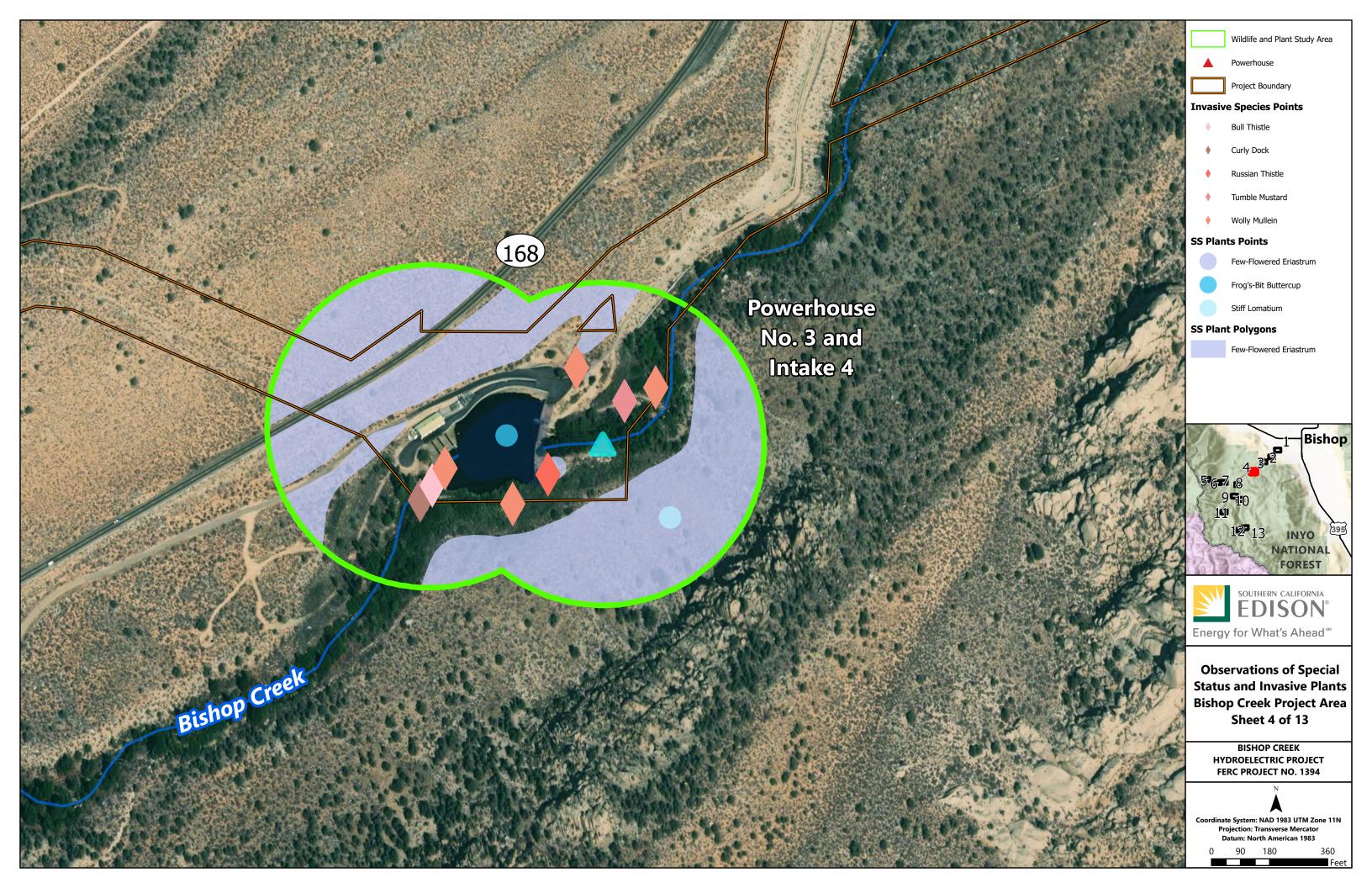




Observations of Special Status and Invasive Plants Bishop Creek Project Area Sheet 3 of 13

> BISHOP CREEK HYDROELECTRIC PROJECT FERC PROJECT NO. 1394

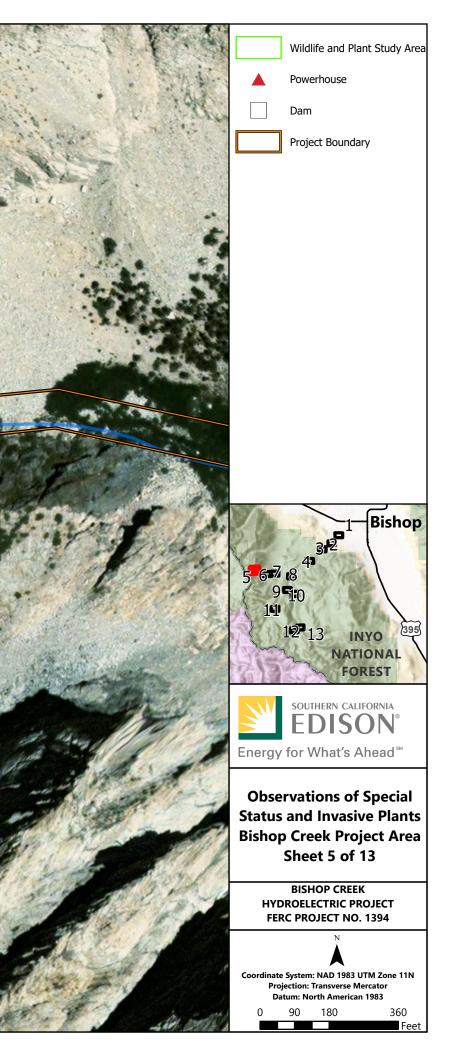




Longley Lake Dam (McGee Lake)

McGee Creek

Longley Lake





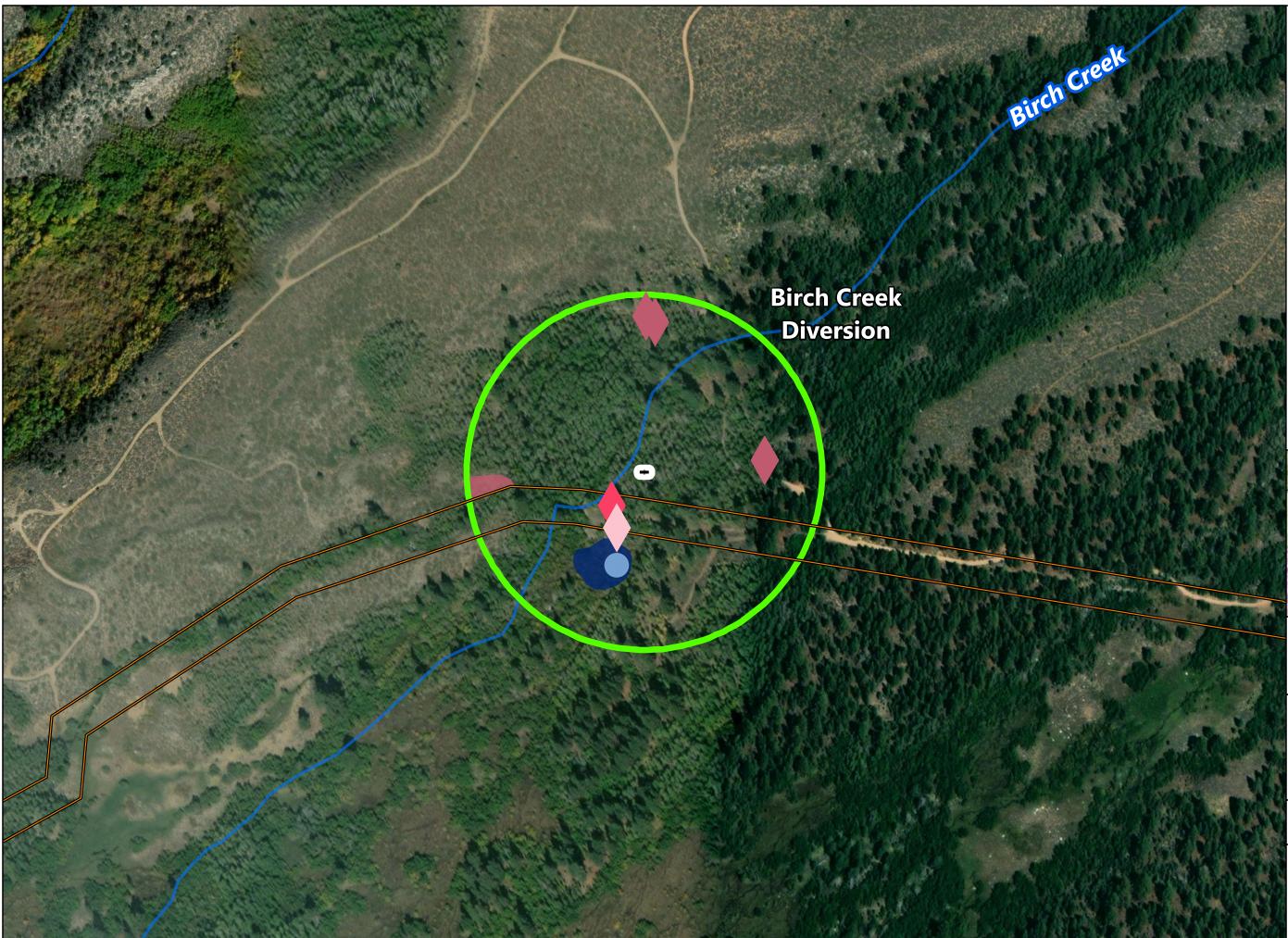
Wildlife and Plant Study Area Powerhouse Diversion Project Boundary **Invasive Species Points** Cheat Grass ٠ SS Plant Polygons Stiff Lomatium Bishop 312 41 567 8 9510 19 12 13 395 INYO NATIONAL FOREST SOUTHERN CALIFORNIA Energy for What's Ahead[™] **Observations of Special** Status and Invasive Plants Bishop Creek Project Area Sheet 6 of 13 BISHOP CREEK HYDROELECTRIC PROJECT FERC PROJECT NO. 1394 Coordinate System: NAD 1983 UTM Zone 11N Projection: Transverse Mercator

Datum: North American 1983

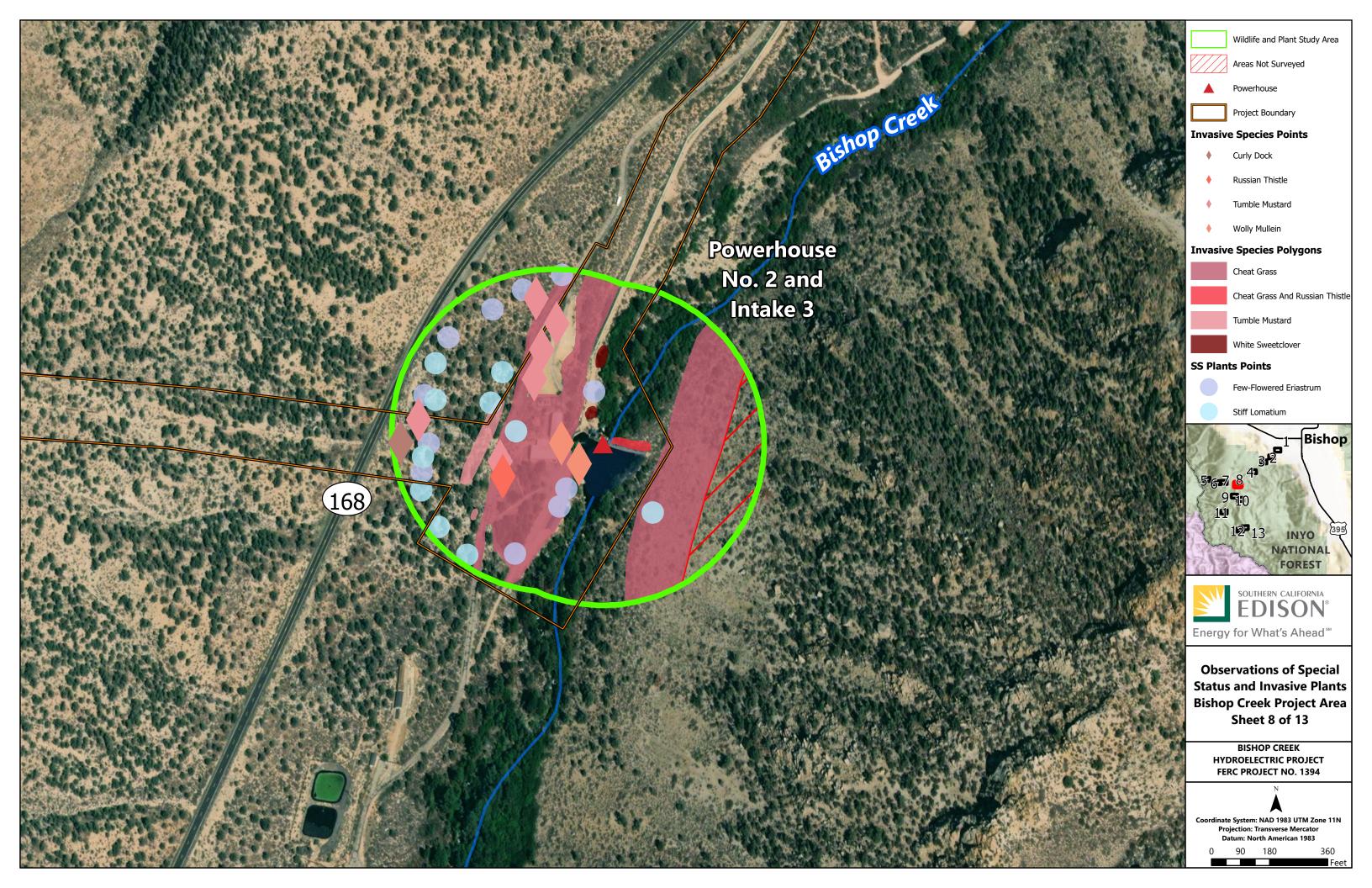
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| | Wildlife and Plant Study Area |
|---------------------------|---|
| | Powerhouse |
| | Diversion |
| | Project Boundary |
| Invasiv | e Species Points |
| • | - Bull Thistle |
| • | Cheat Grass |
| ٠ | English Plantain |
| • | Cirsium vulgare |
| • | Plantego Lancelata |
| Invasive Species Polygons | |
| | Cheat Grass |
| SS Plan | its Points |
| | Marsh Arrow-Grass |
| SS Plan | t Polygons |
| | Small-Flowered Grass-Of-Parnassus |
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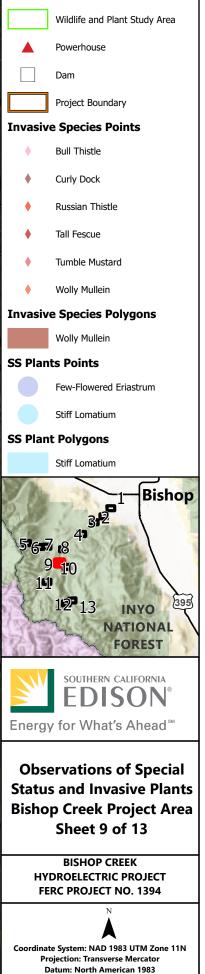
Bishop Creek Intake No. 2 Dam

Intake No. 2 Reservoir

(168)



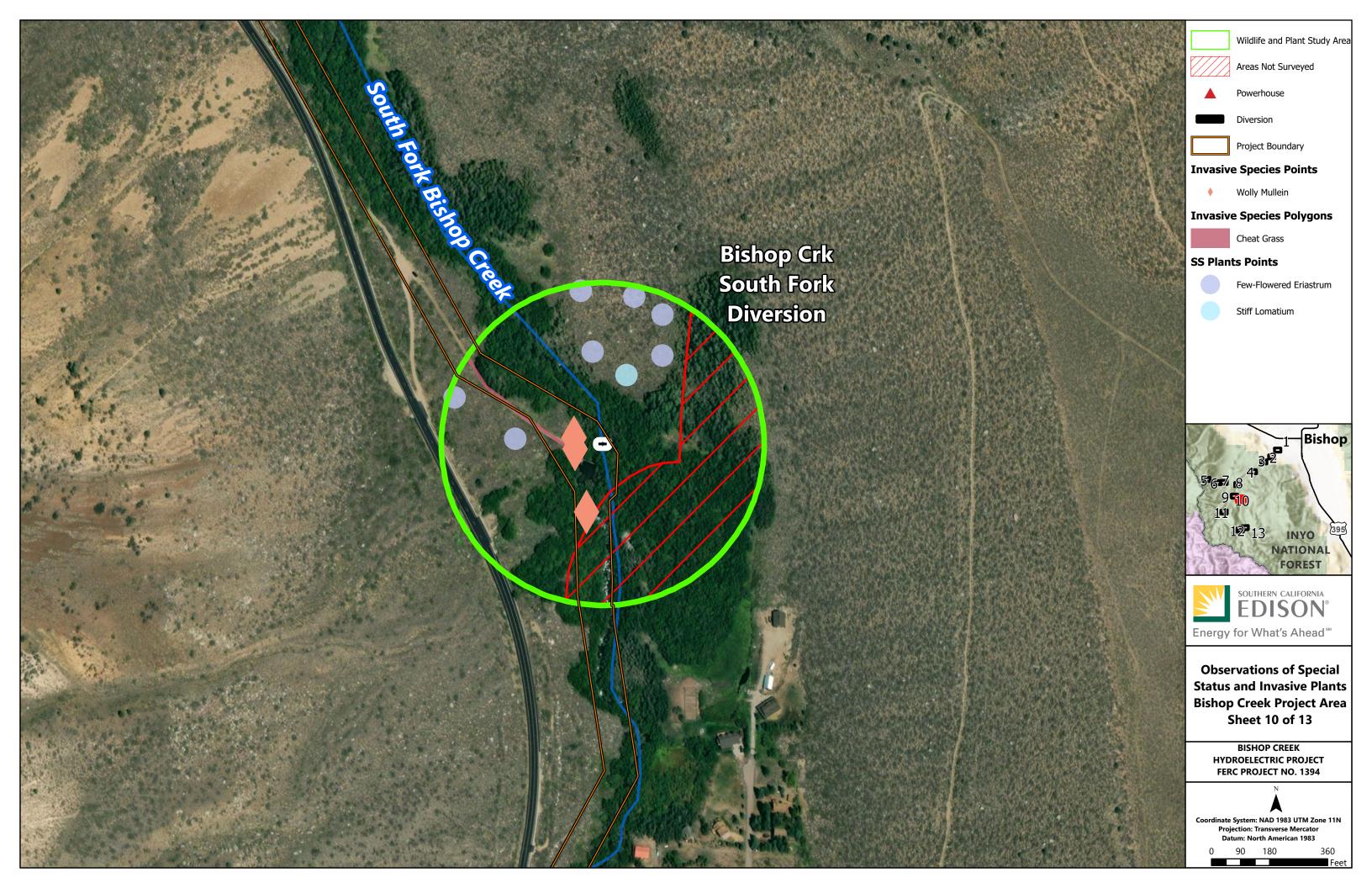
Middlefot



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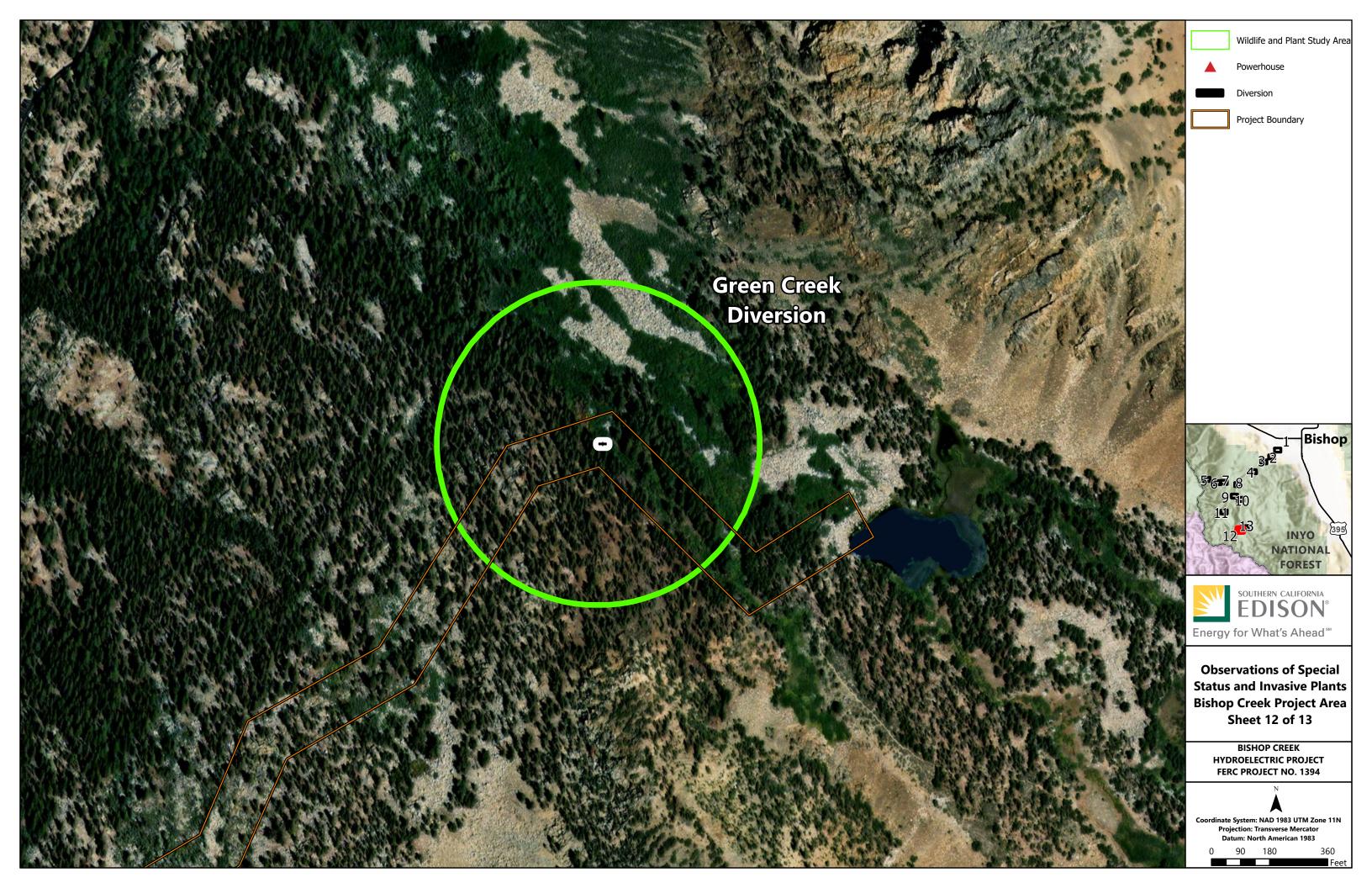
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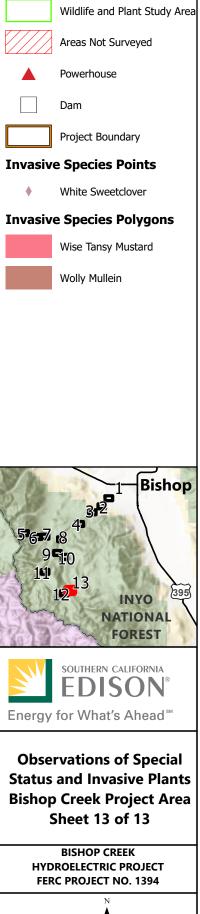
Wildlife and Plant Study Area Cheat Grass And Wolly Mullein Bishop **Observations of Special** Status and Invasive Plants Bishop Creek Project Area



Hillside Dam 💉

South Lake







SOUTHERN CALIFORNIA EDISON

Bishop Creek Hydroelectric Project (FERC Project No. 1394)

FINAL LICENSE APPLICATION

APPENDIX J

LOCATION MAP FULFILLING REQUIREMENTS OF 18 CFR § 5.18 (b)(iii)

June 2022

Support from:



