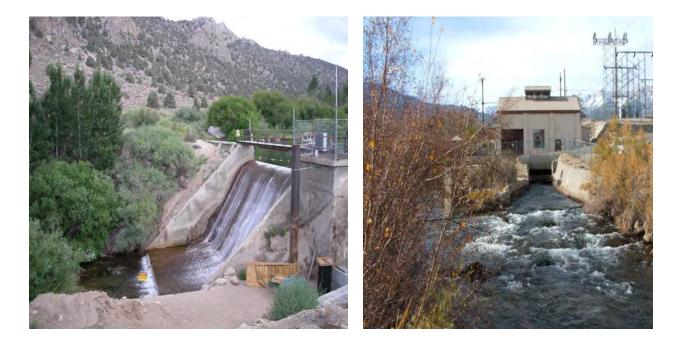
# SOUTHERN CALIFORNIA EDISON Bishop Creek Hydroelectric Project (FERC Project No. 1394)



## 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

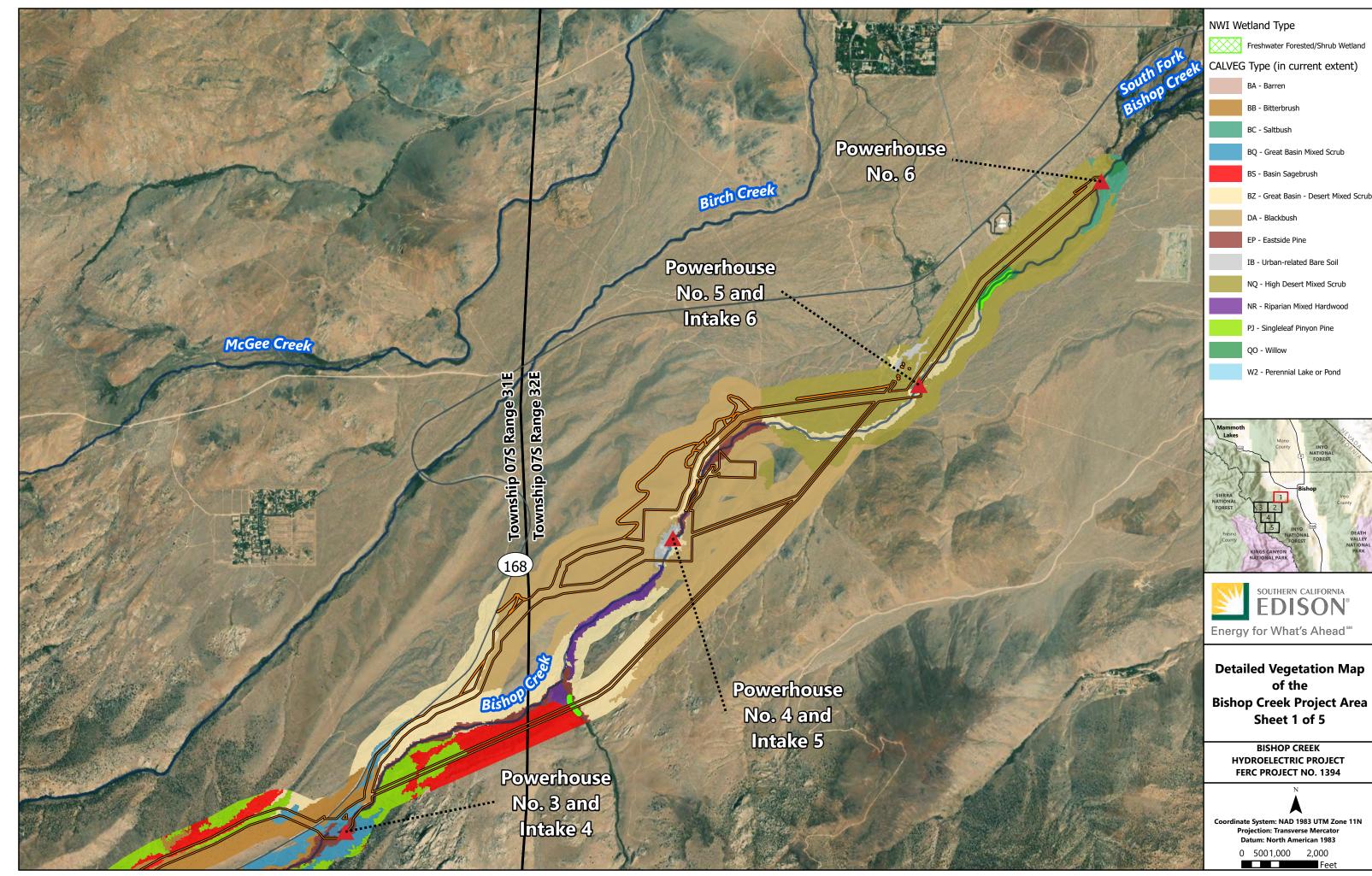
## **APPENDIX G**

### 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

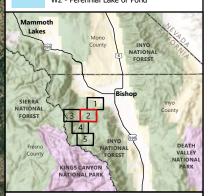
168

<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			





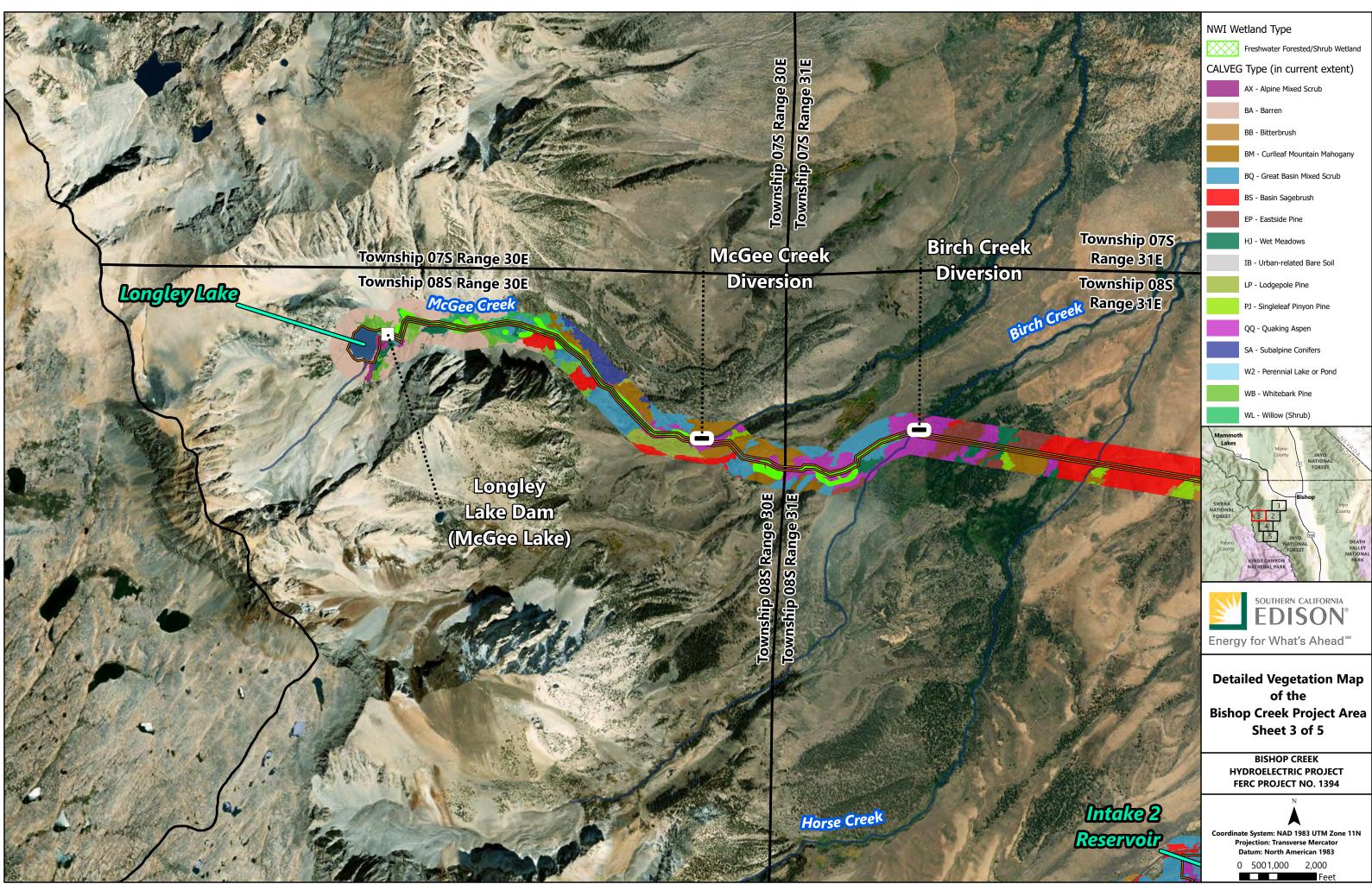
**Detailed Vegetation Map** of the **Bishop Creek Project Area** Sheet 2 of 5

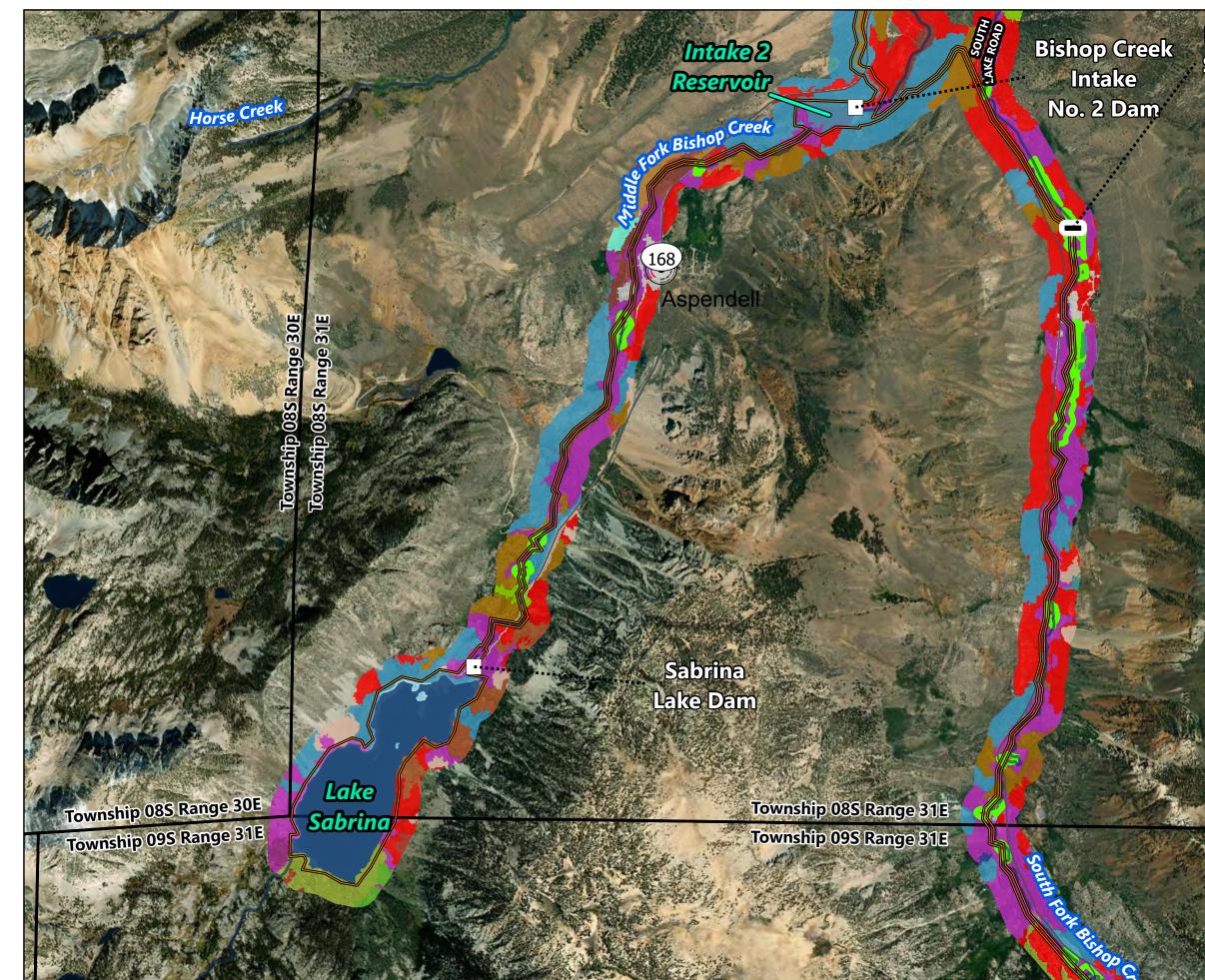
> **BISHOP CREEK** HYDROELECTRIC PROJECT FERC PROJECT NO. 1394



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

> 0 5001,000 2,000



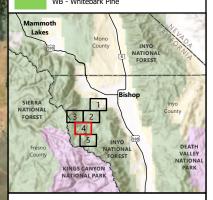


### Bishop Crk South Fork Diversion

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		





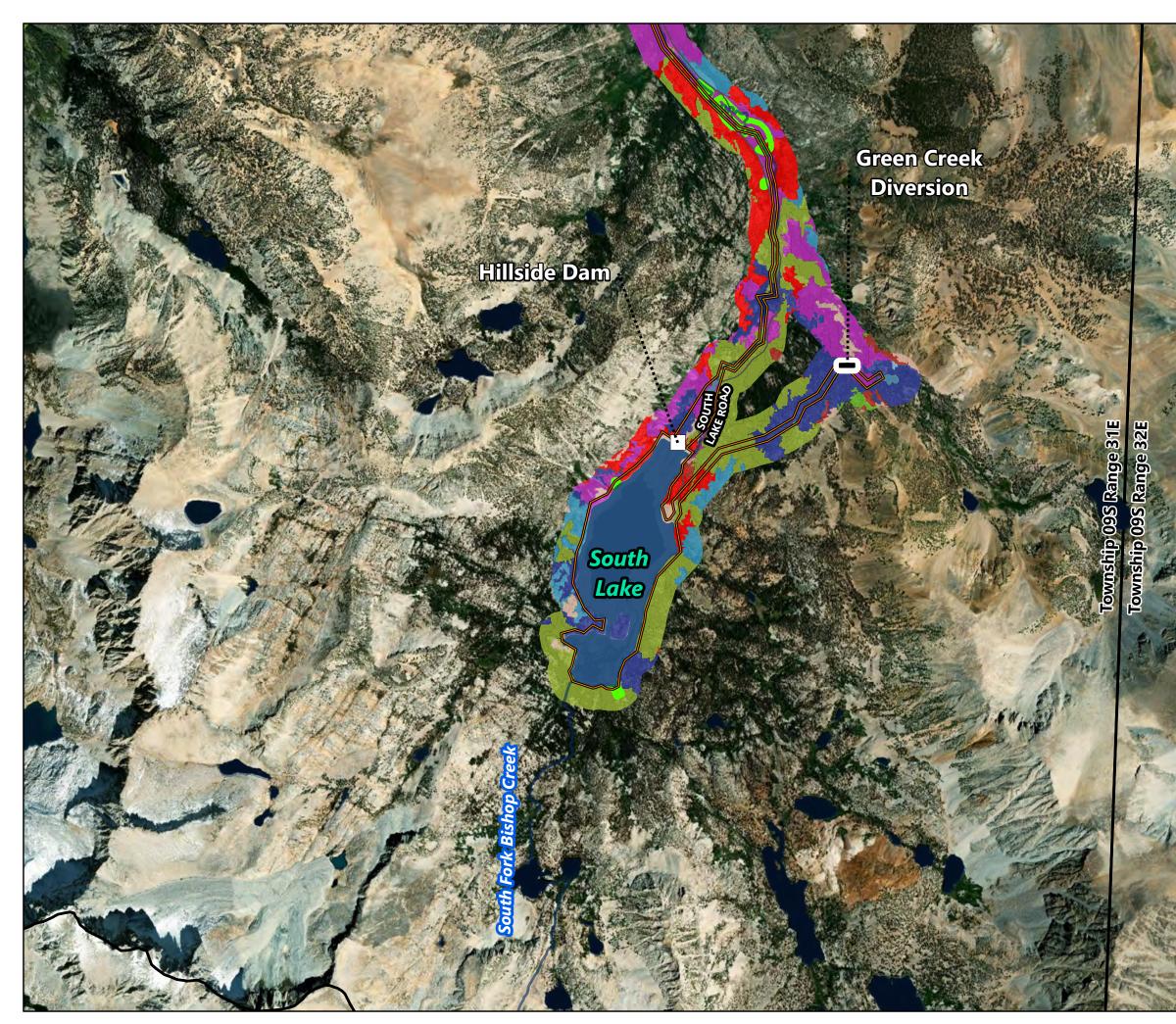
Detailed Vegetation Map of the Bishop Creek Project Area Sheet 4 of 5

> 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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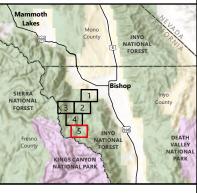


### NWI Wetland Type

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

0 5001,000 2,000 

### **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

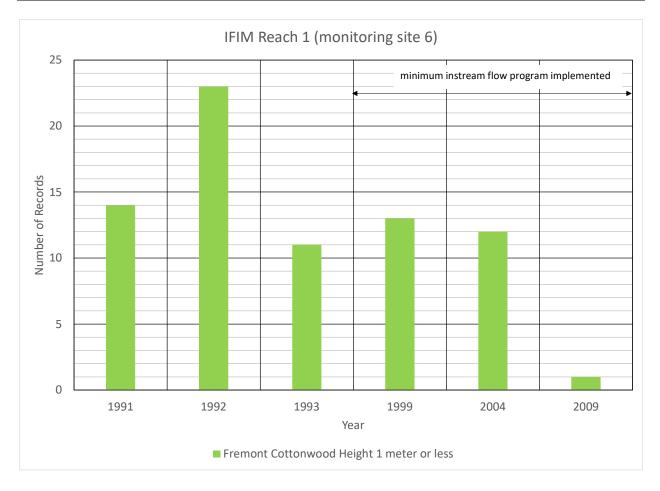
Support from:



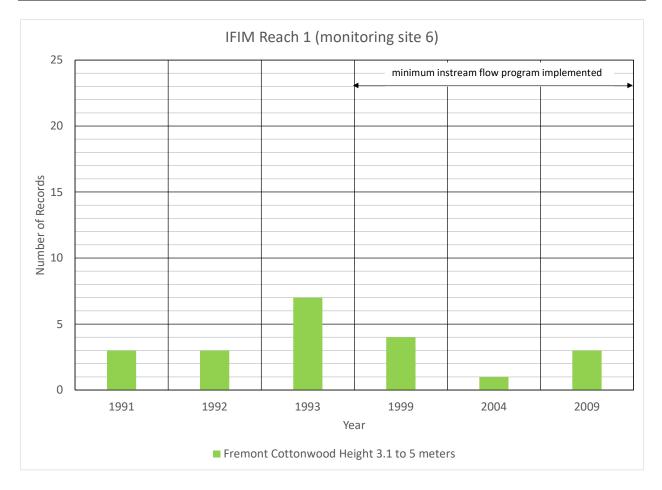
This document provides data in response to a request from USFS at the May 25, 2022, Bishop Creek FERC Relicensing Protection, Mitigation, and Enhancement (PM&E) meeting. That request was to revise the graphs of *Populus* height data from the riparian monitoring sites in a way that would make it easier 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.

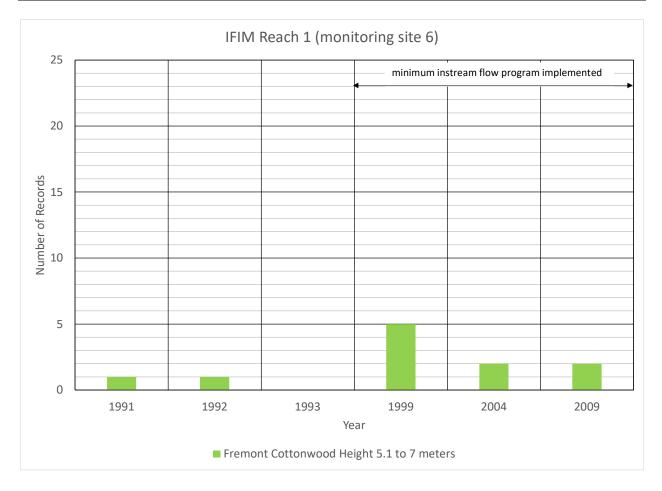
To re-summarize important background information presented with the previous set of graphs of canopy cover and height of woody riparian species:

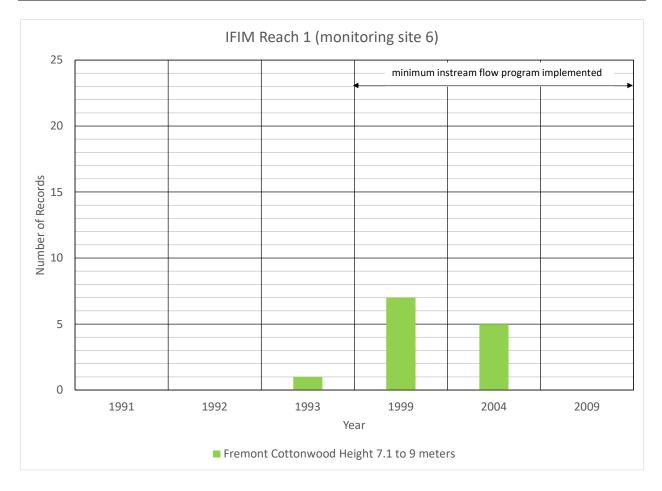
- No riparian monitoring sites were established in IFIM reaches 3, 8, or 10 due to potential influence from unregulated tributaries that would confound efforts to isolate Project effects on riparian vegetation.
- Sites in IFIM reaches 1 and 4 were not monitored after 2009 due to significant human disturbance. 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.

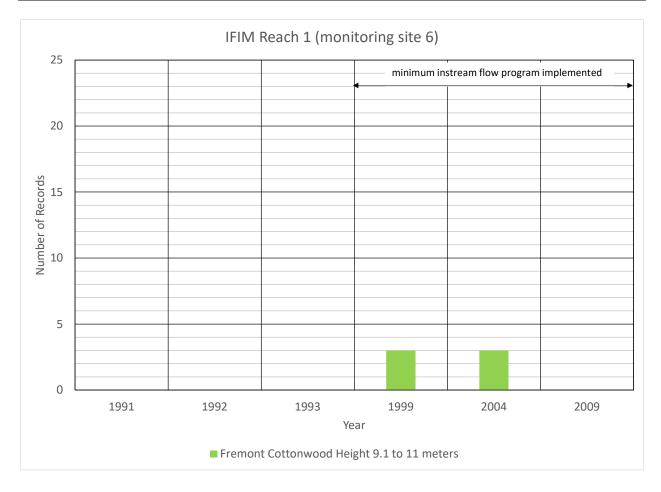


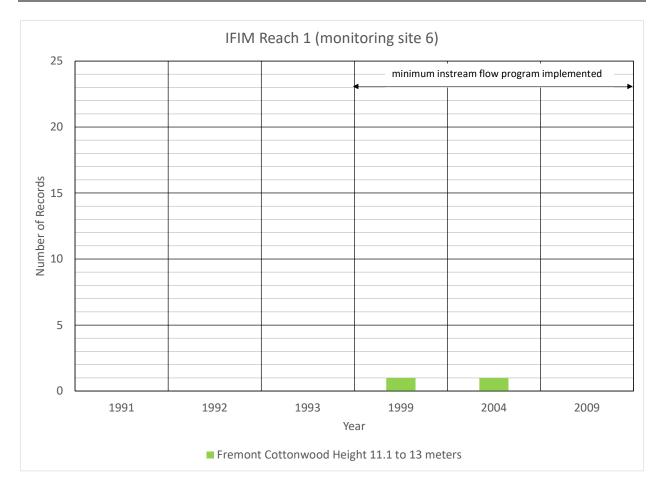


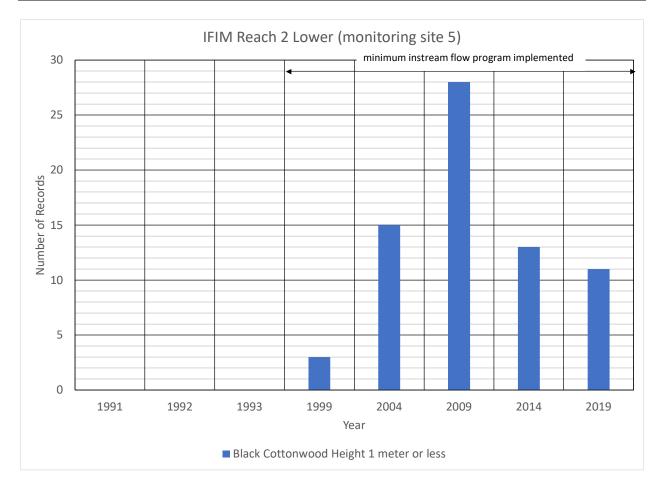


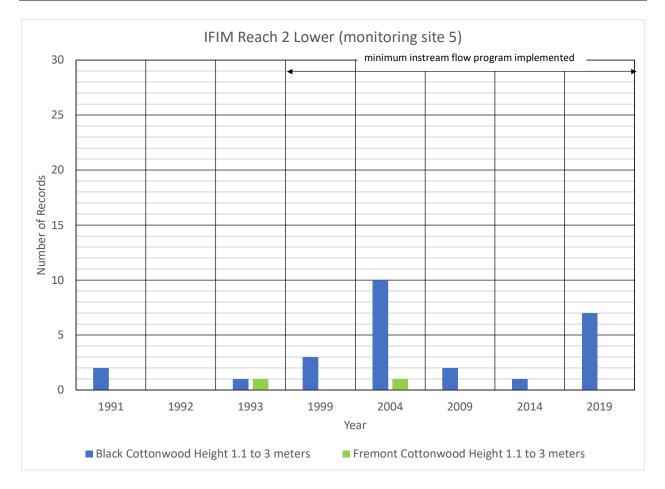


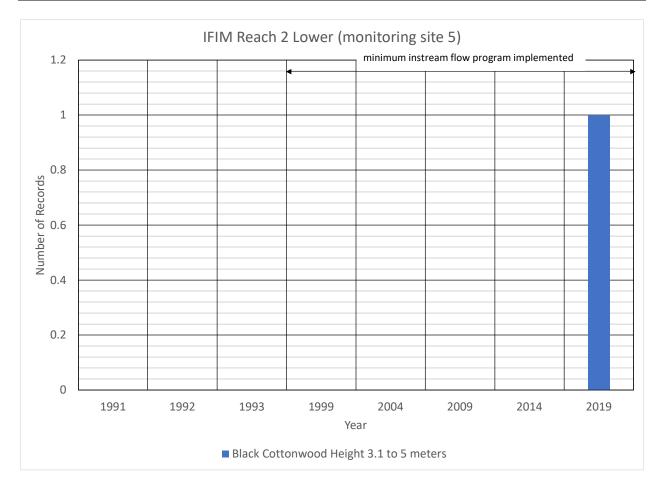


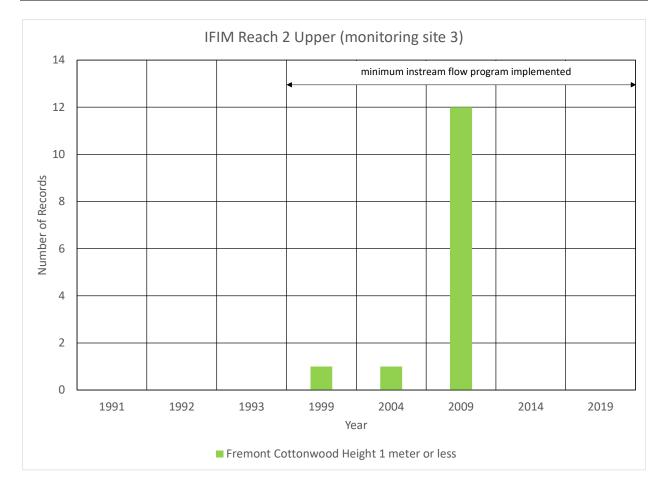


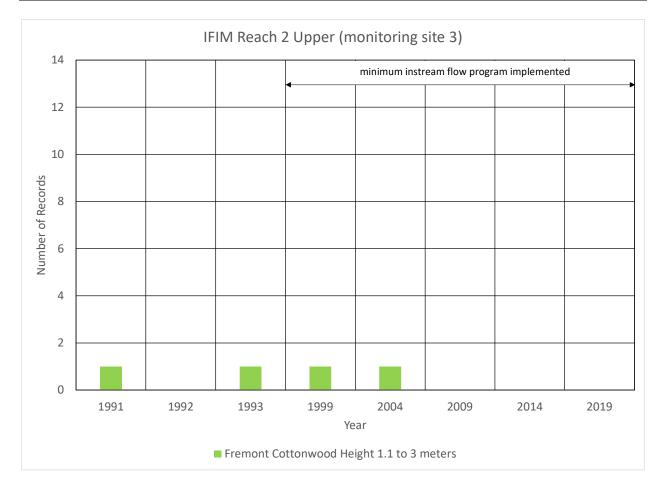


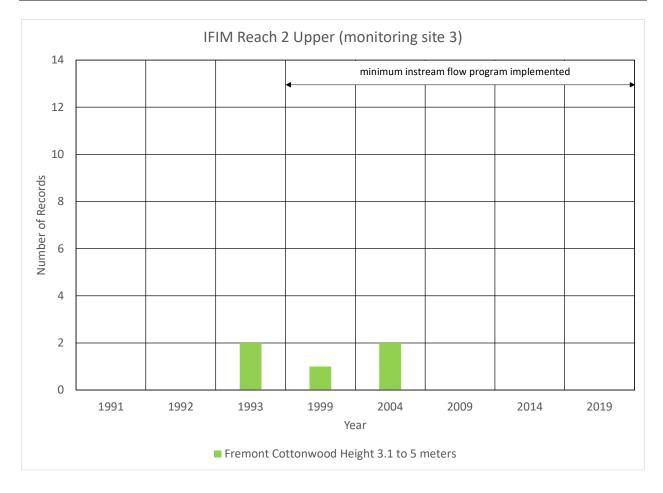


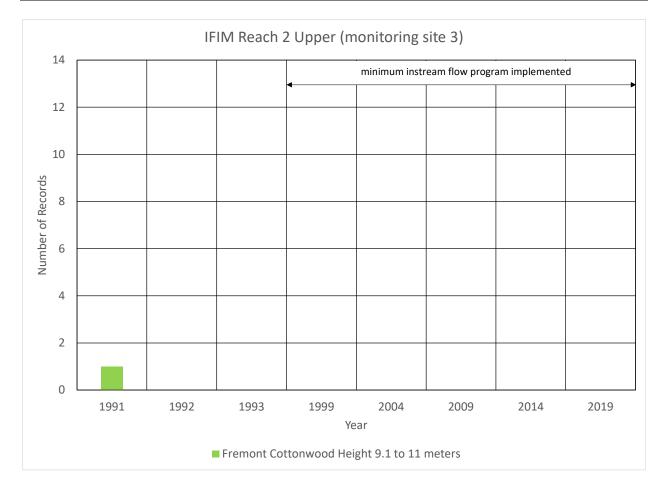


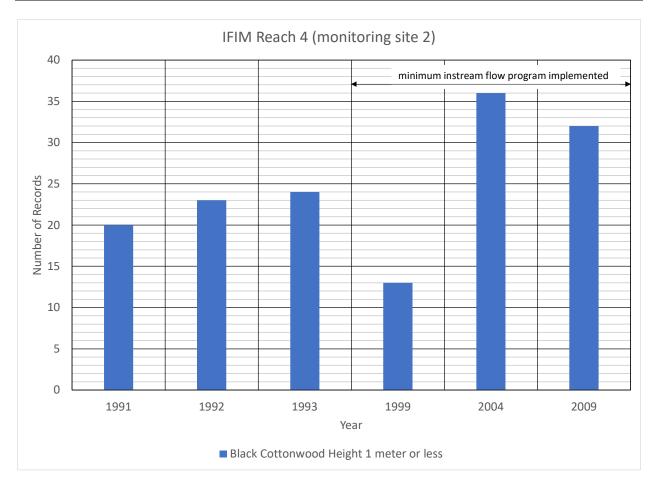


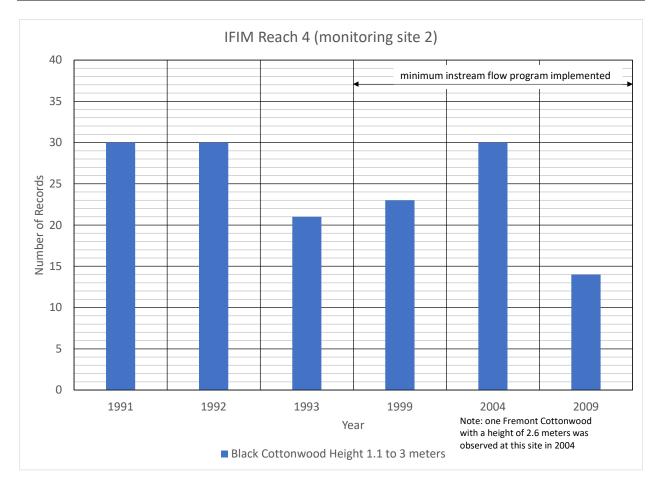


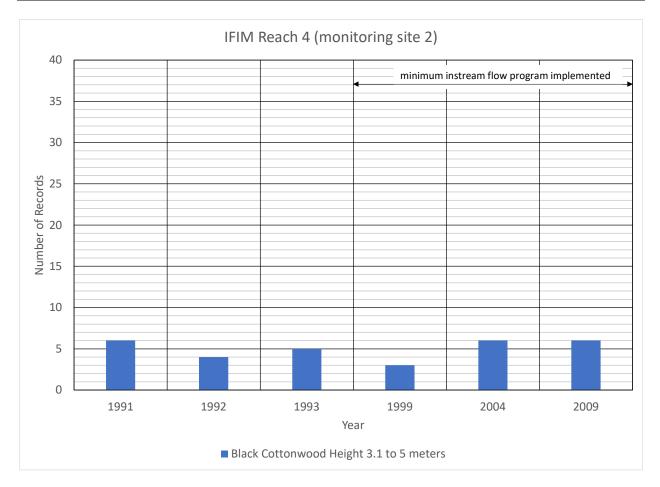


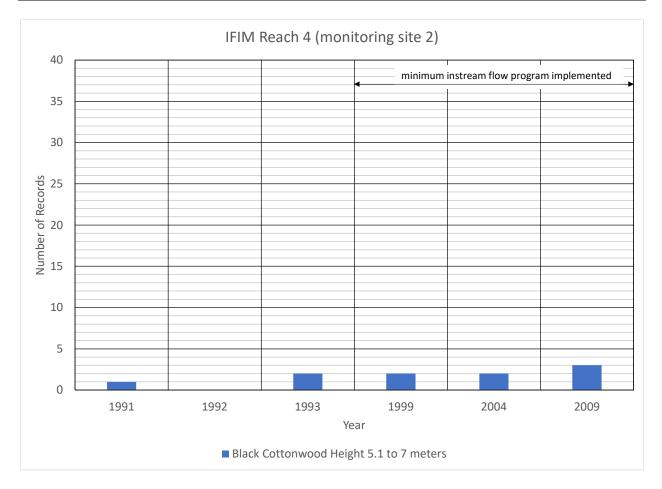


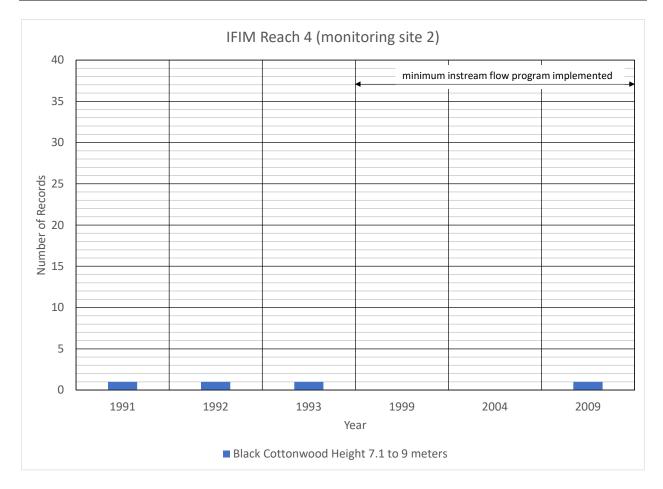


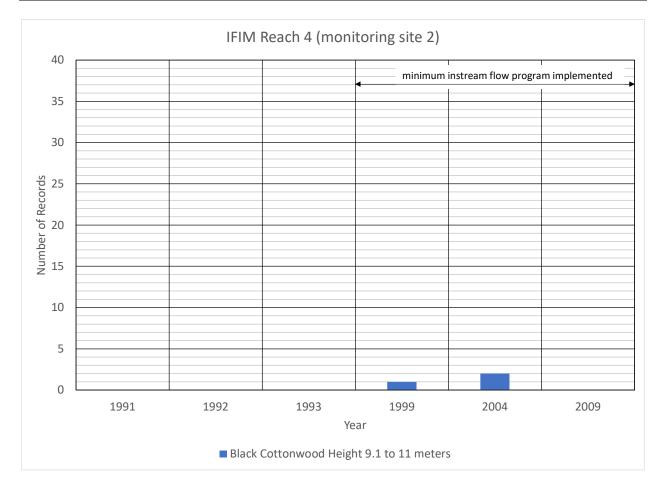


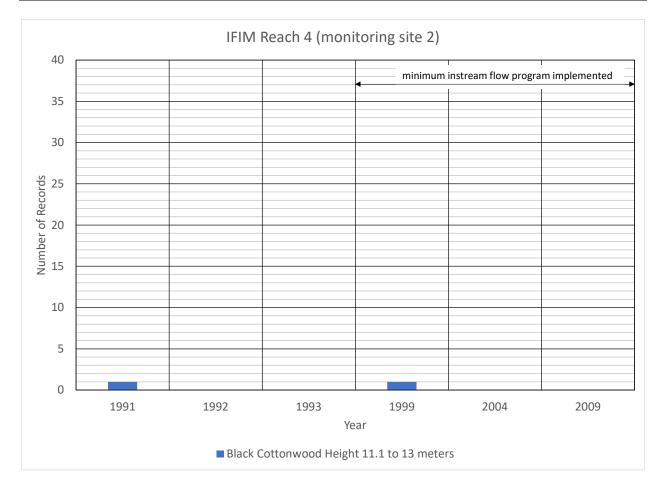


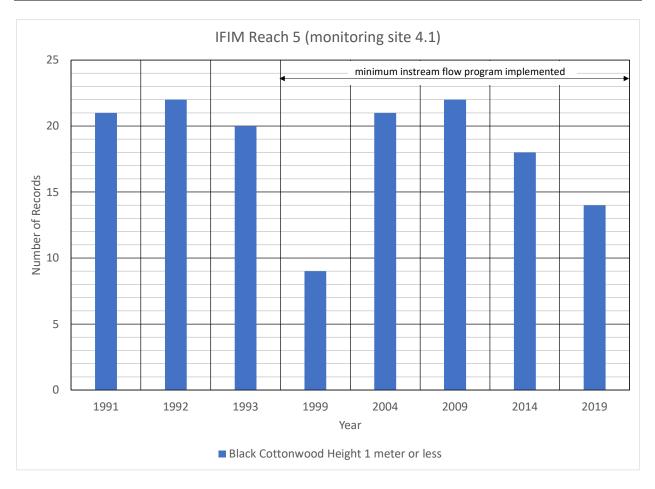


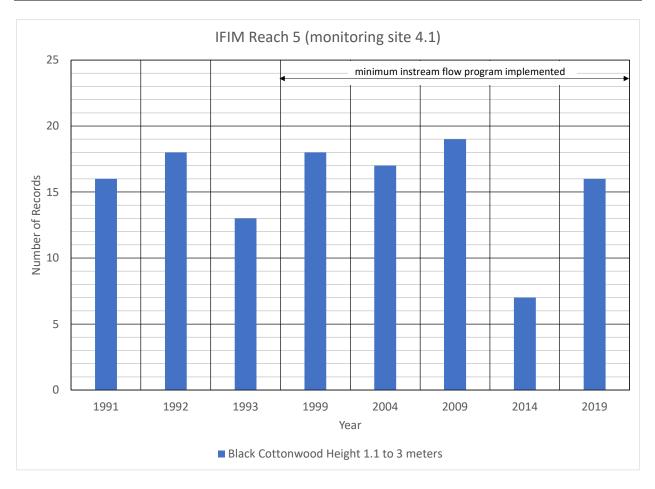


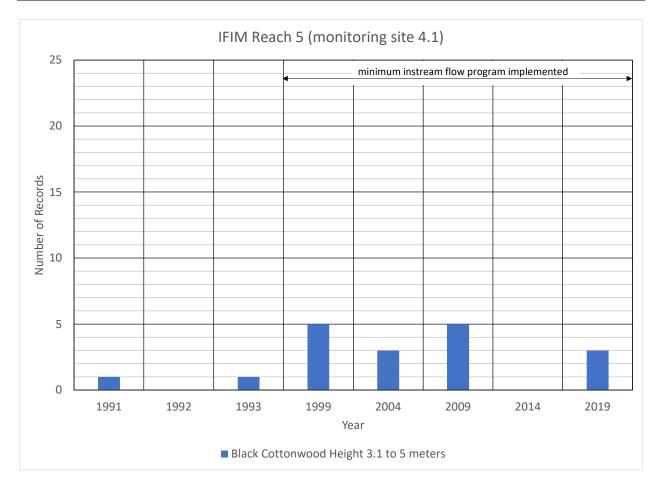


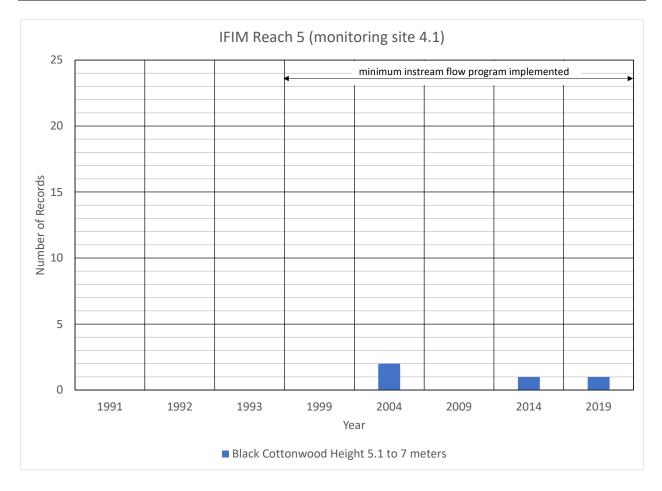


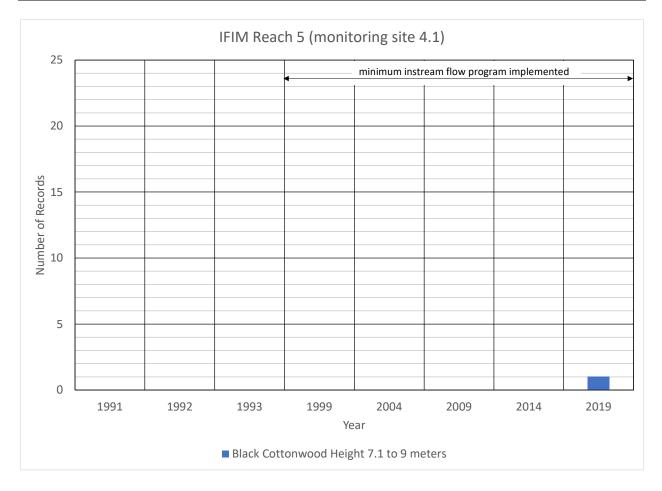


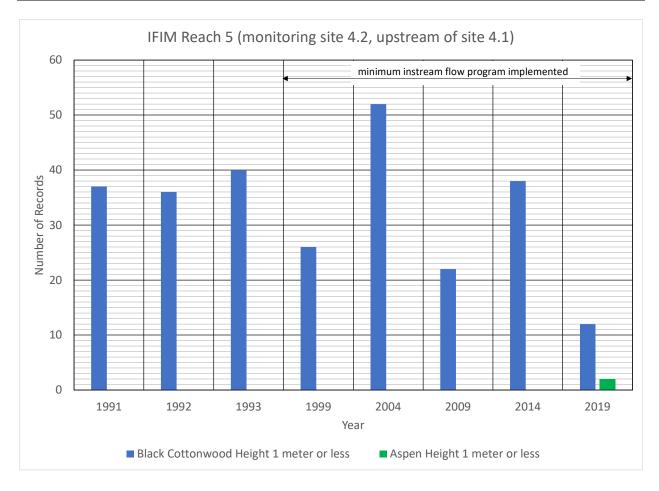


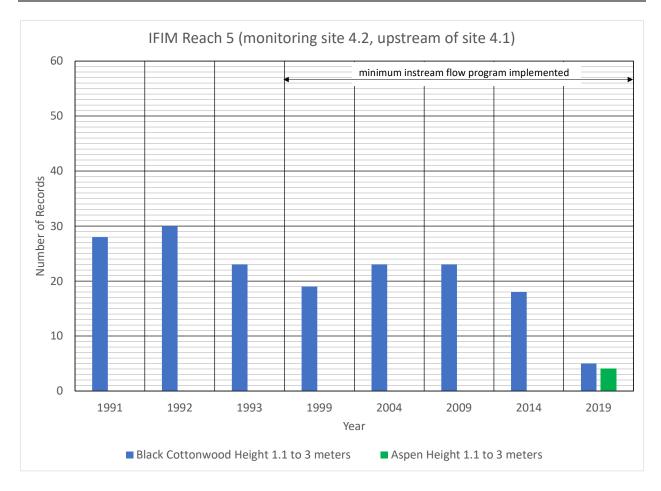


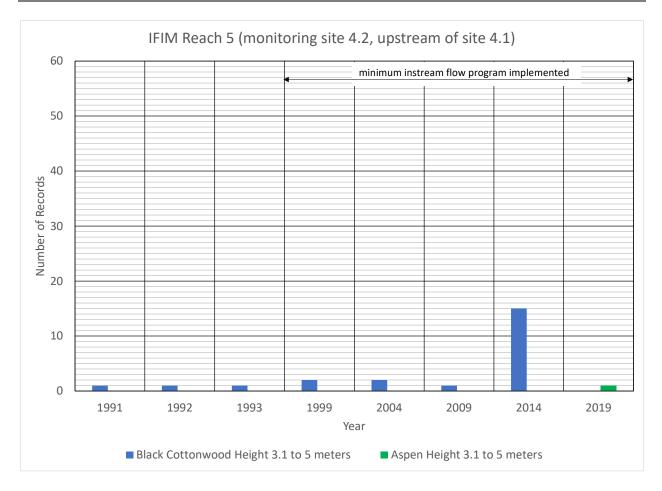


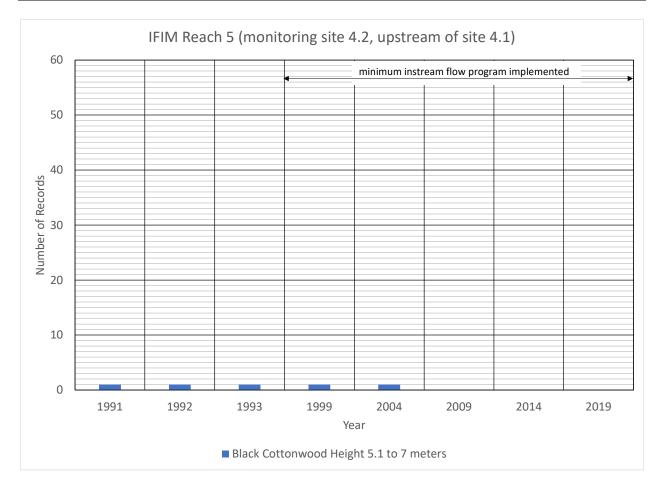


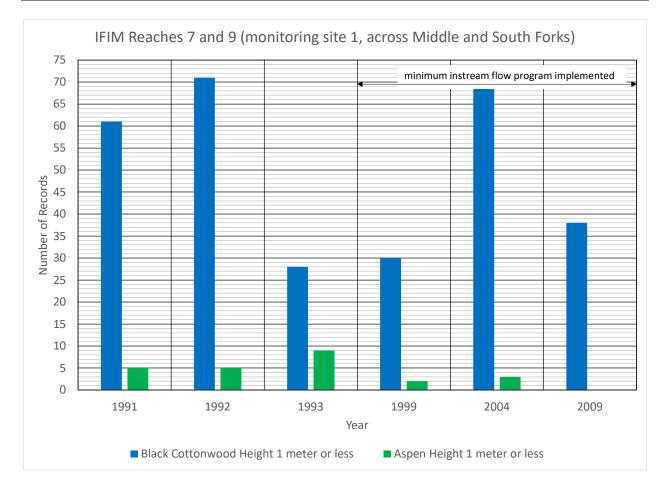


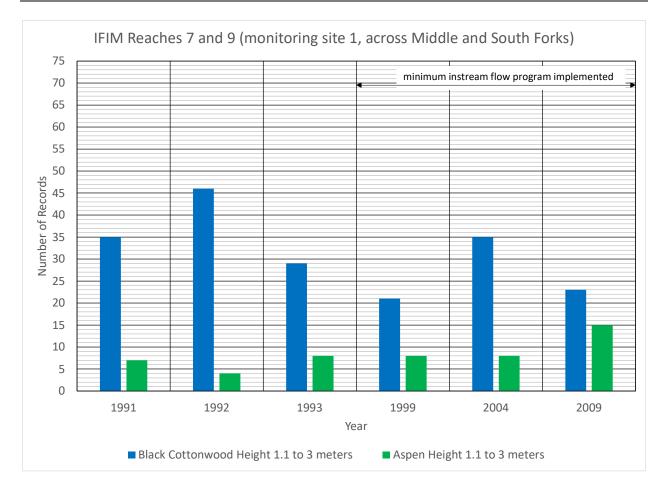


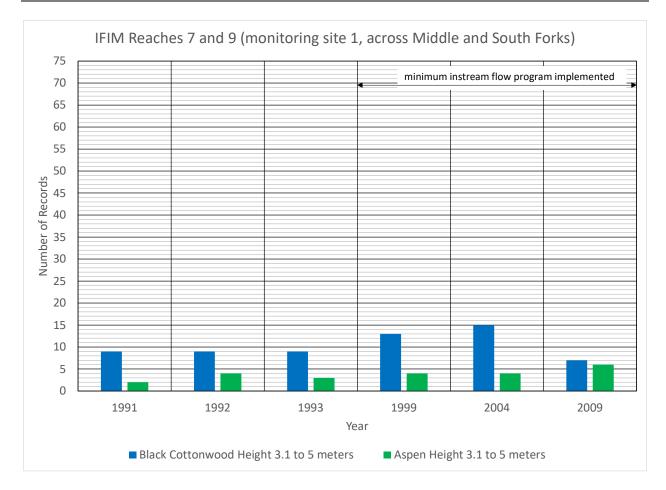


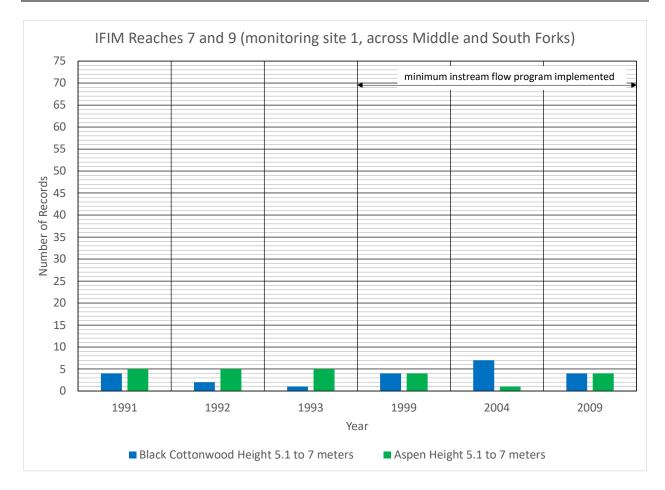


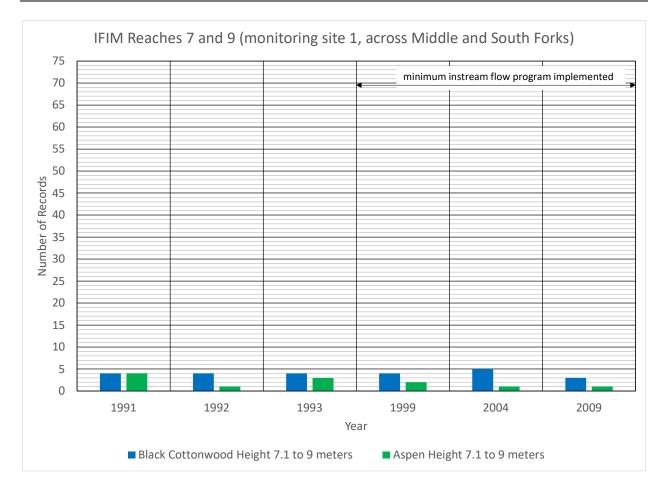


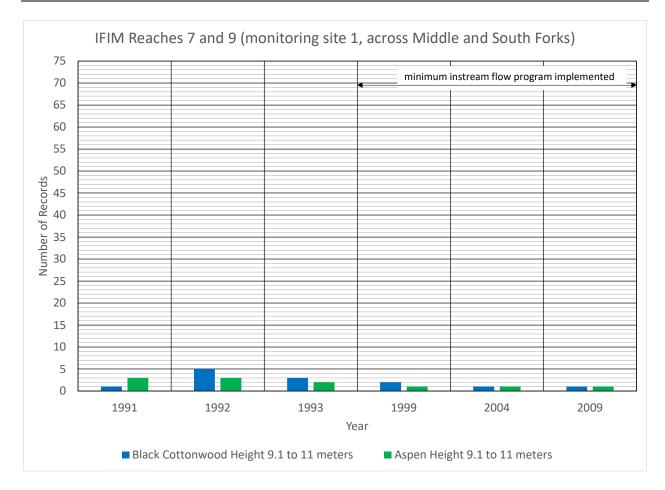


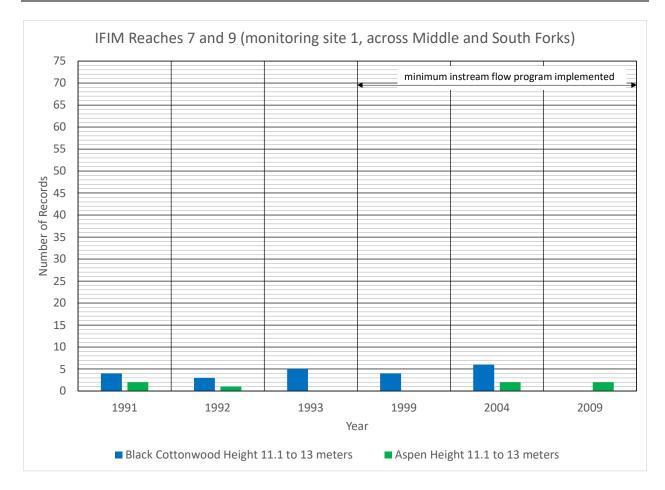


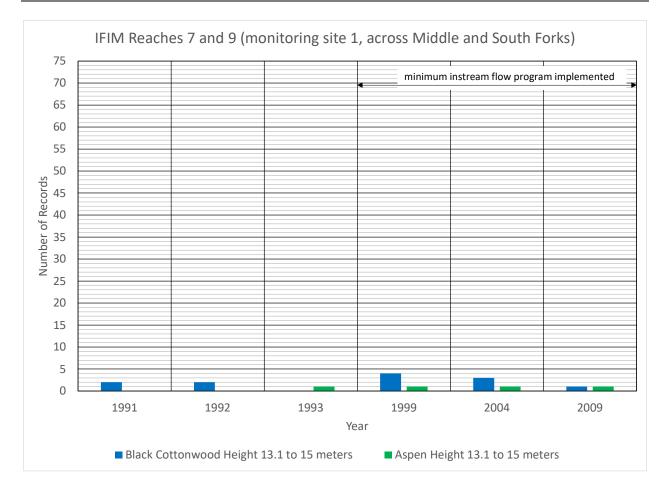


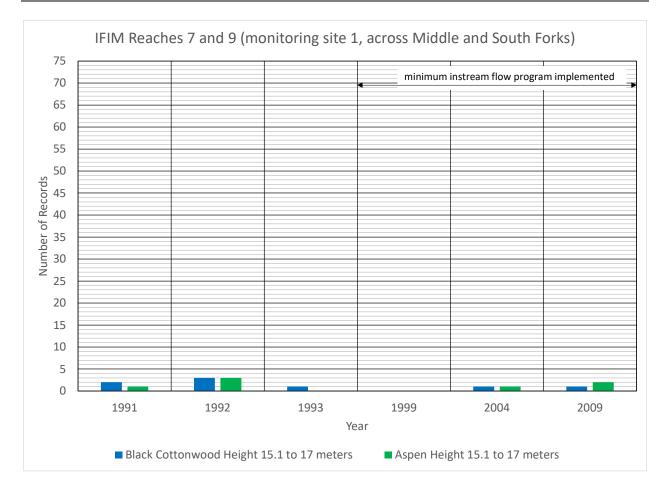


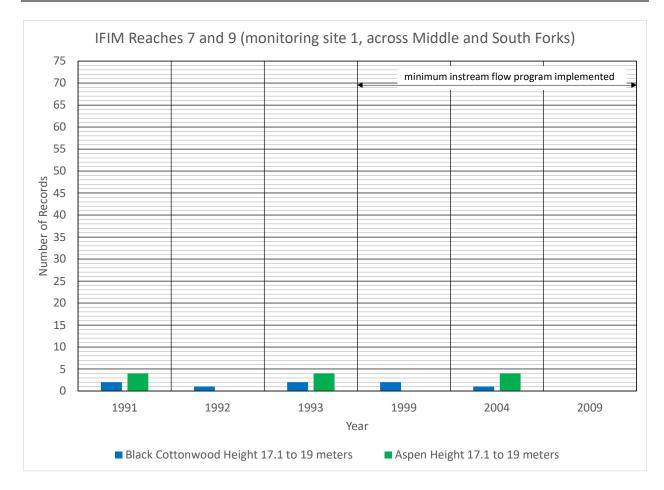


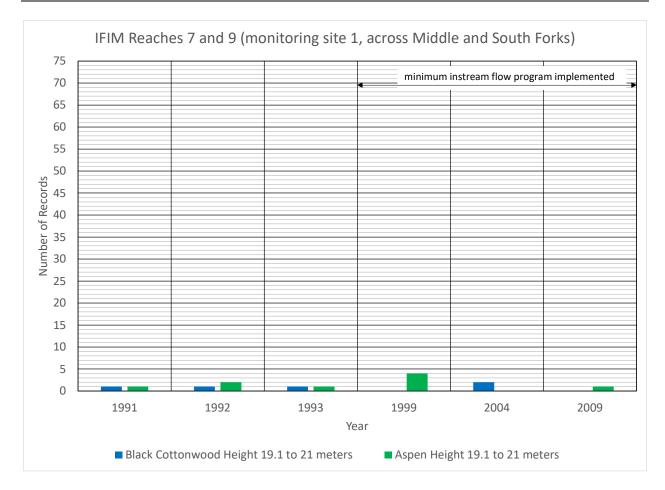


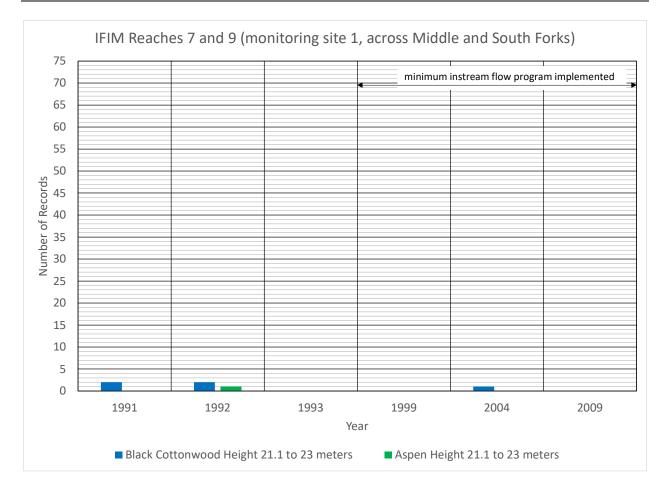


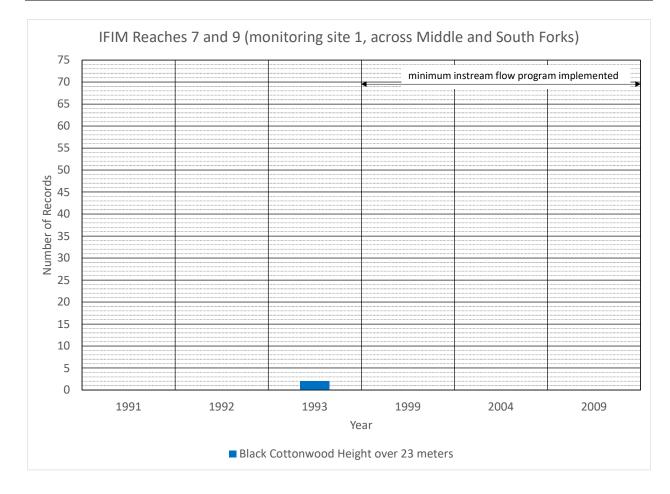












## **SOUTHERN CALIFORNIA EDISON**

Bishop Creek Hydroelectric Project (FERC Project No. 1394)

### FINAL LICENSE APPLICATION

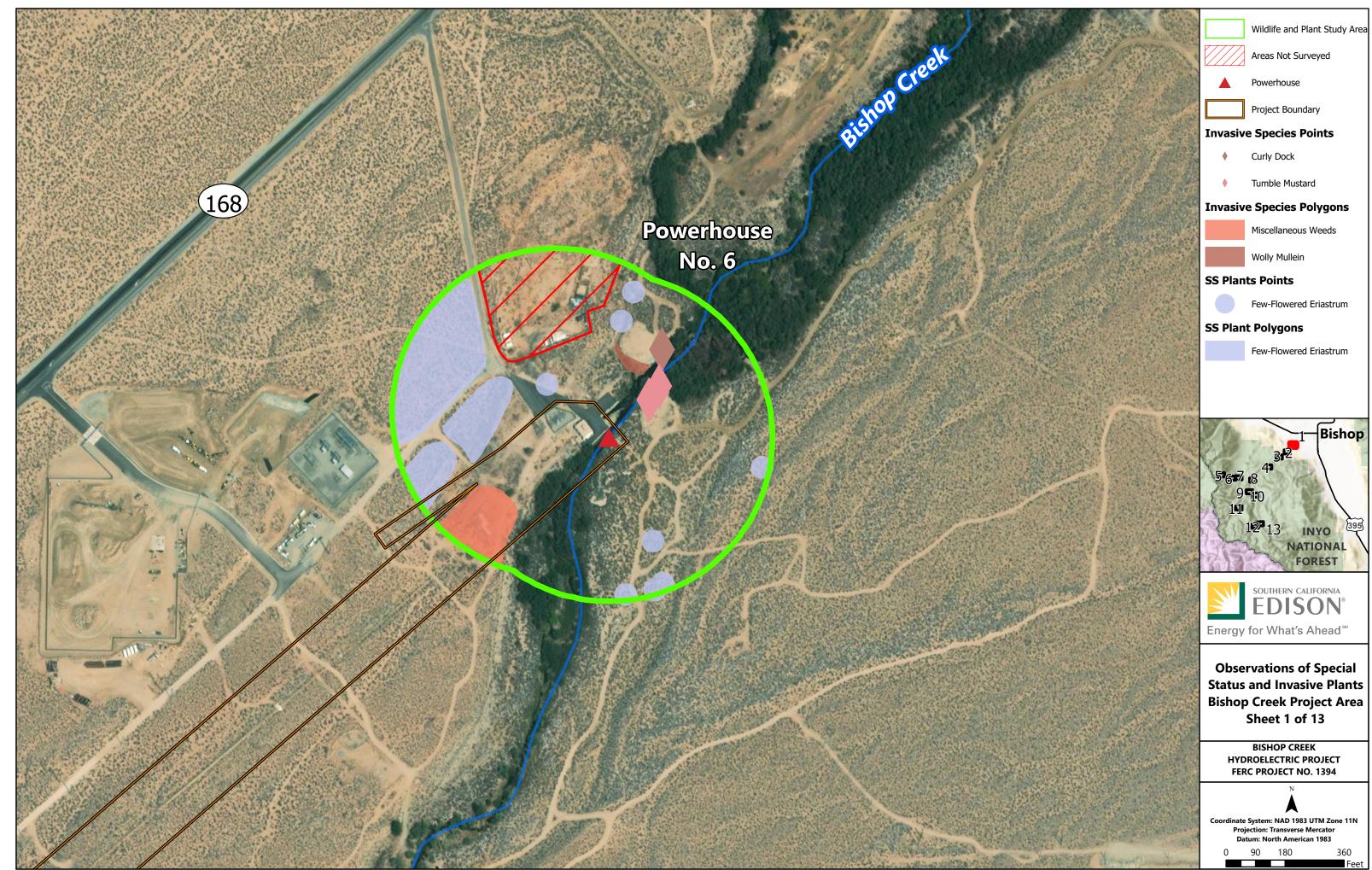
# **APPENDIX**

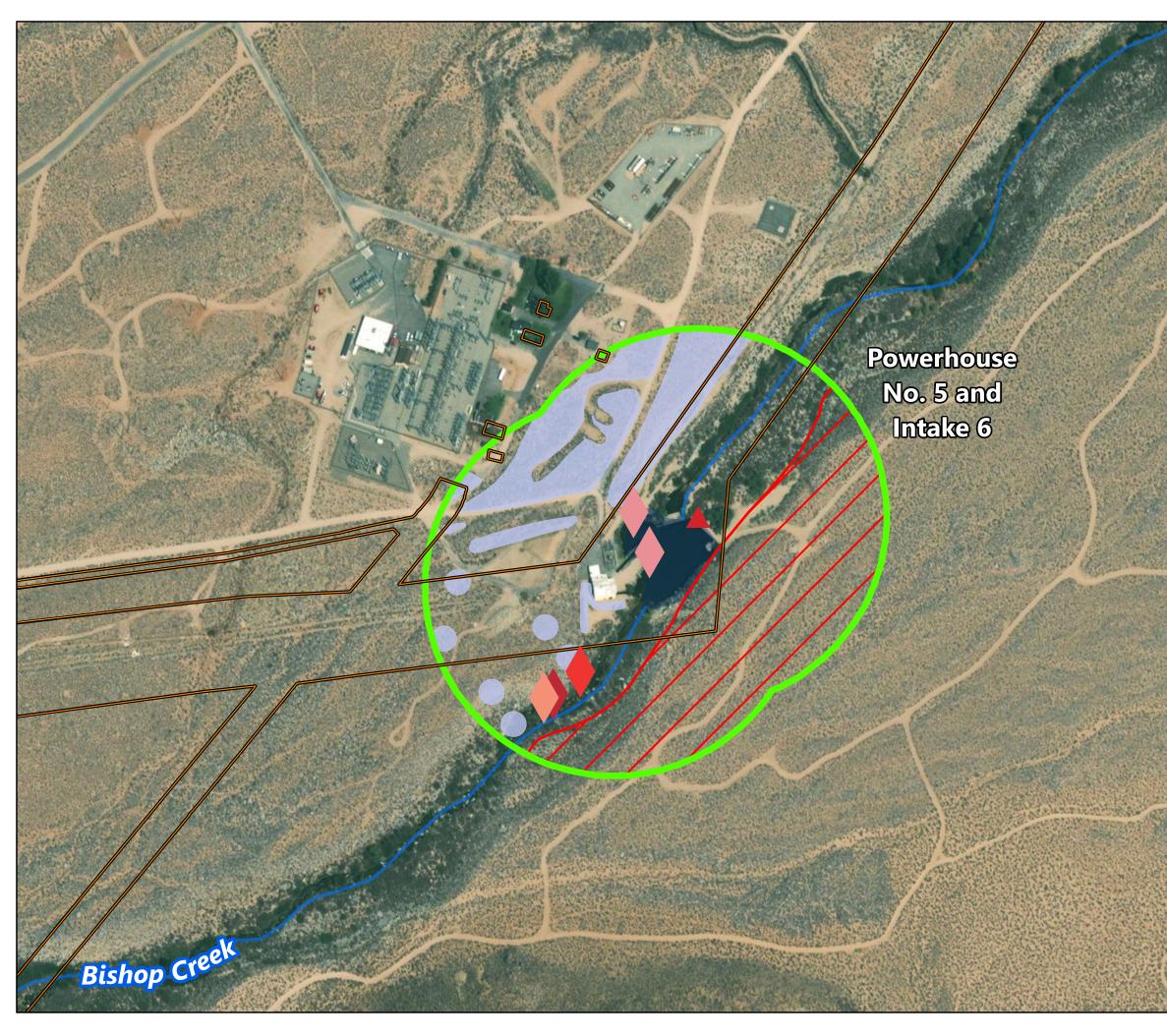
### SPECIAL STATUS AND INVASIVE PLANTS IN THE BISHOP CREEK PROJECT AREA

June 2022

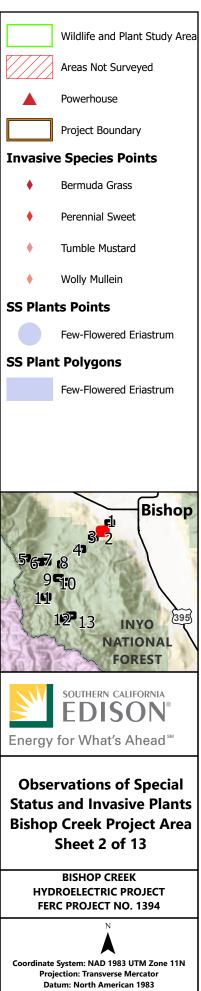
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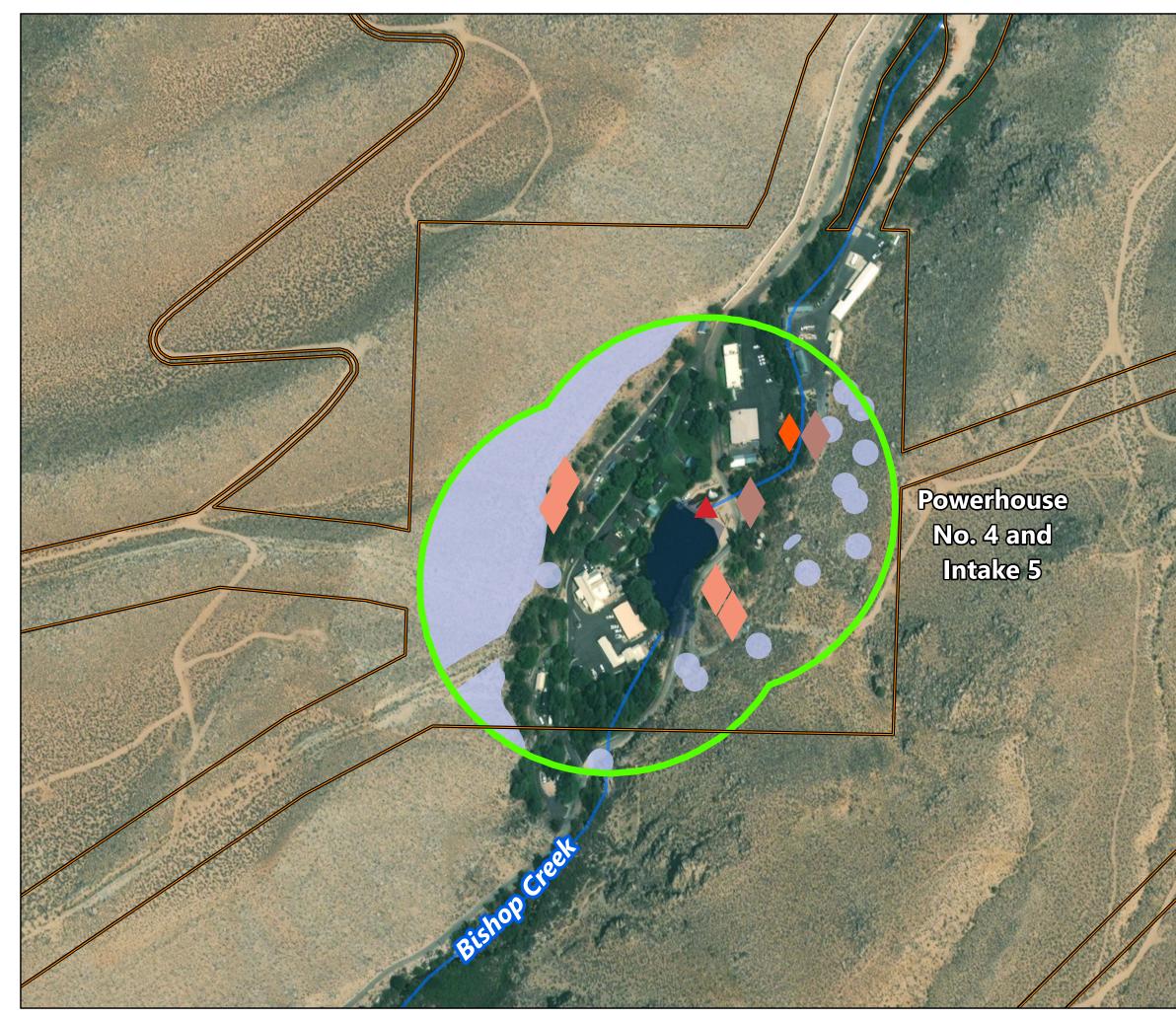














Wildlife and Plant Study Area

- Powerhouse
  - Project Boundary

### **Invasive Species Points**

- Curly Dock
- Wolly Mullein
- Black Locust

#### **SS Plants Points**

Few-Flowered Eriastrum

### SS Plant Polygons

Few-Flowered Eriastrum

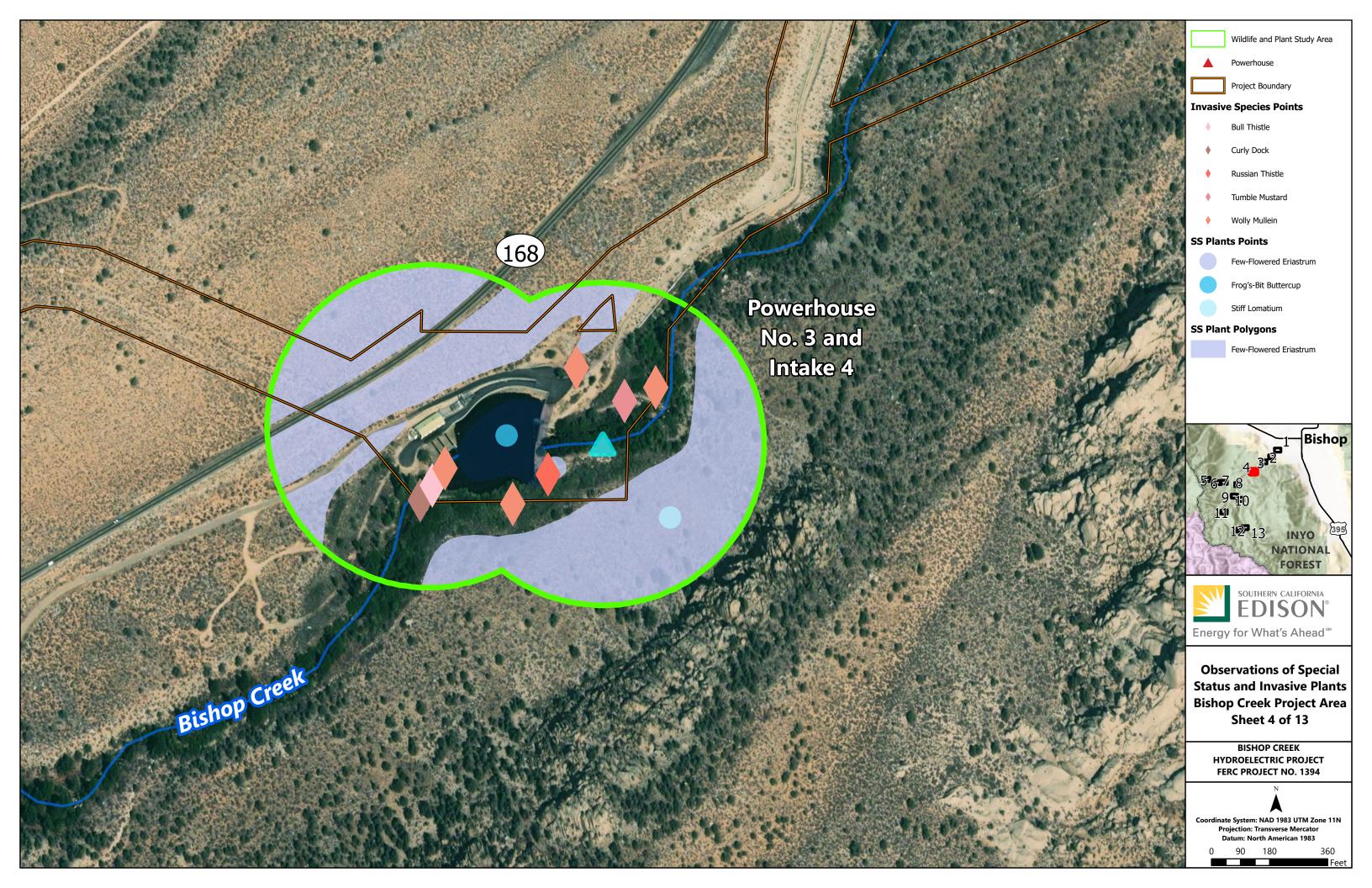




Observations of Special Status and Invasive Plants Bishop Creek Project Area Sheet 3 of 13

> BISHOP CREEK HYDROELECTRIC PROJECT FERC PROJECT NO. 1394

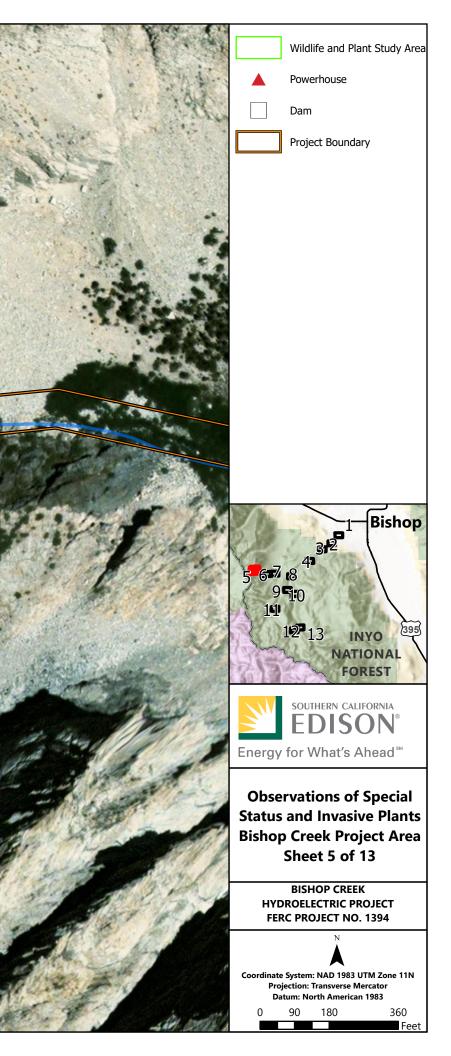




Longley Lake Dam (McGee Lake)

McGee Creek

Longley Lake





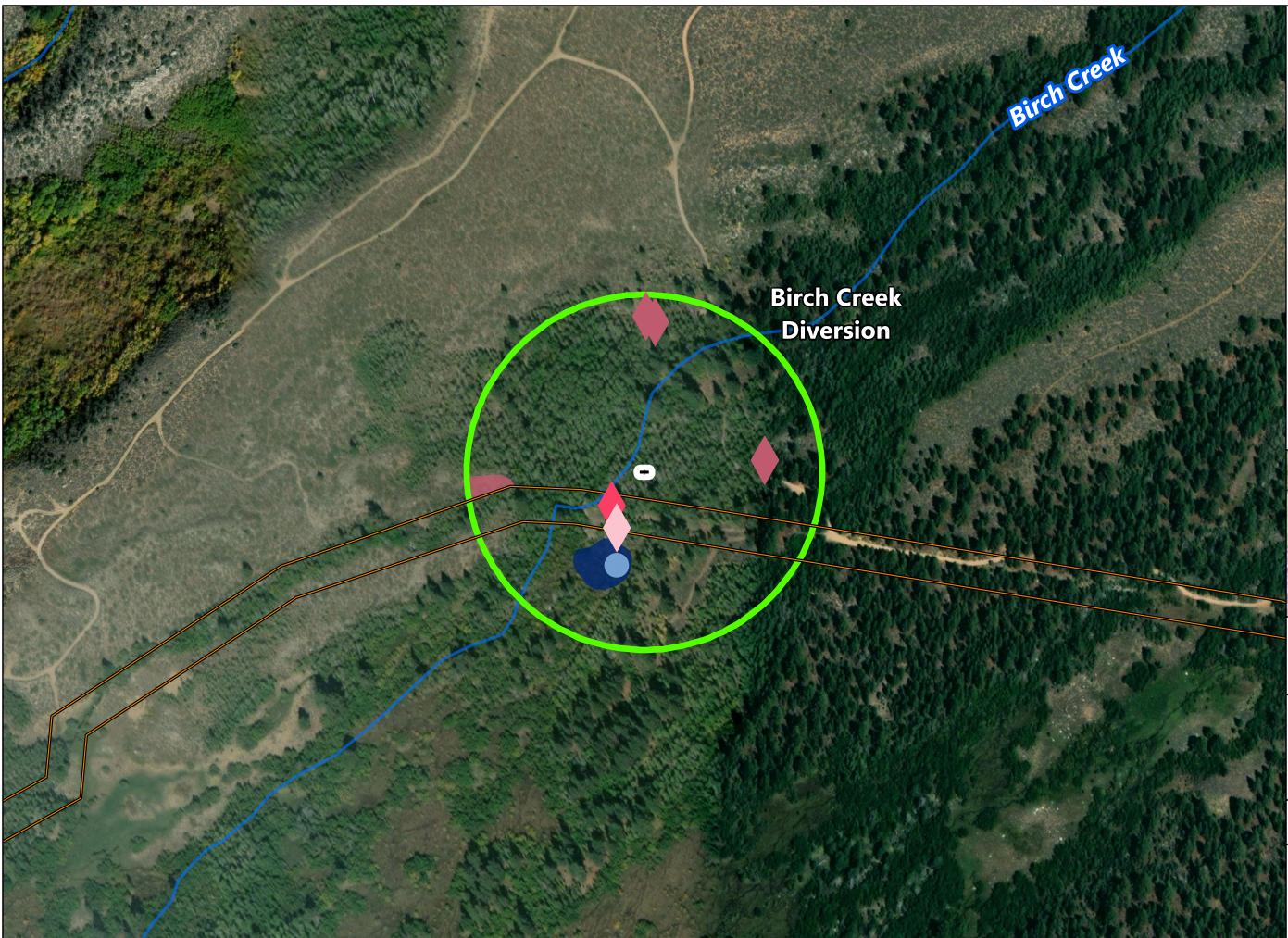
Wildlife and Plant Study Area Powerhouse Diversion Project Boundary **Invasive Species Points** Cheat Grass ٠ SS Plant Polygons Stiff Lomatium Bishop 312 41 567 8 9510 19 12 13 395 INYO NATIONAL FOREST SOUTHERN CALIFORNIA Energy for What's Ahead<sup>™</sup> **Observations of Special** Status and Invasive 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

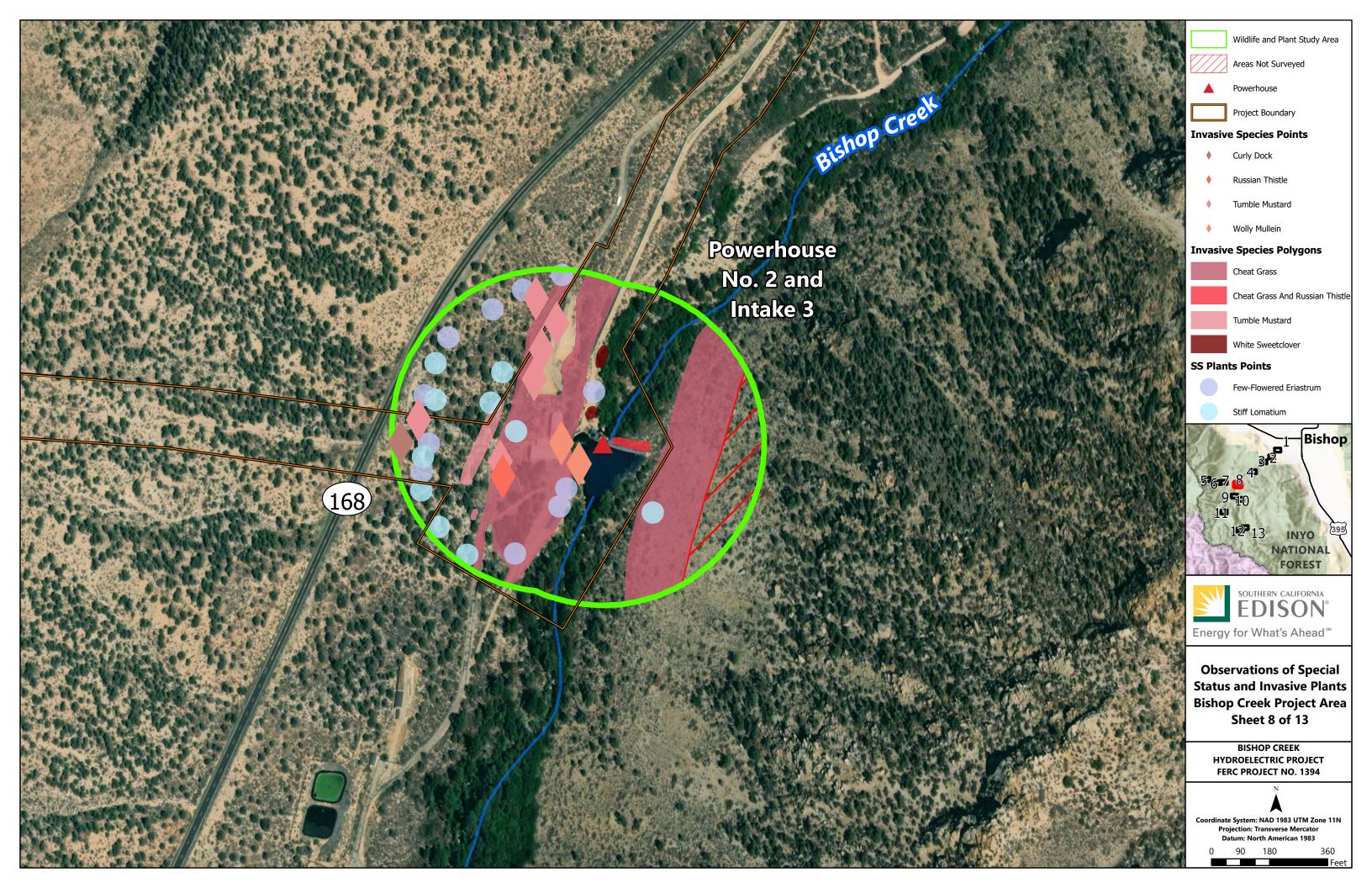
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360

90



	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
56	1 Bishop 3 2 7 8 10 12 13 INYO NATIONAL FOREST
	3 2 7 8 10 12 13 INYO NATIONAL
Obs Statu	A A A A A A A A A A A A A A
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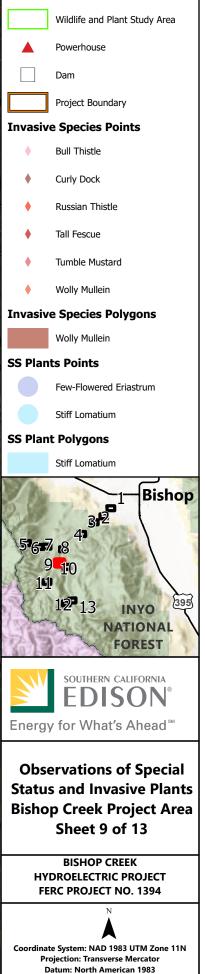
Bishop Creek Intake No. 2 Dam

Intake No. 2 Reservoir

(168)



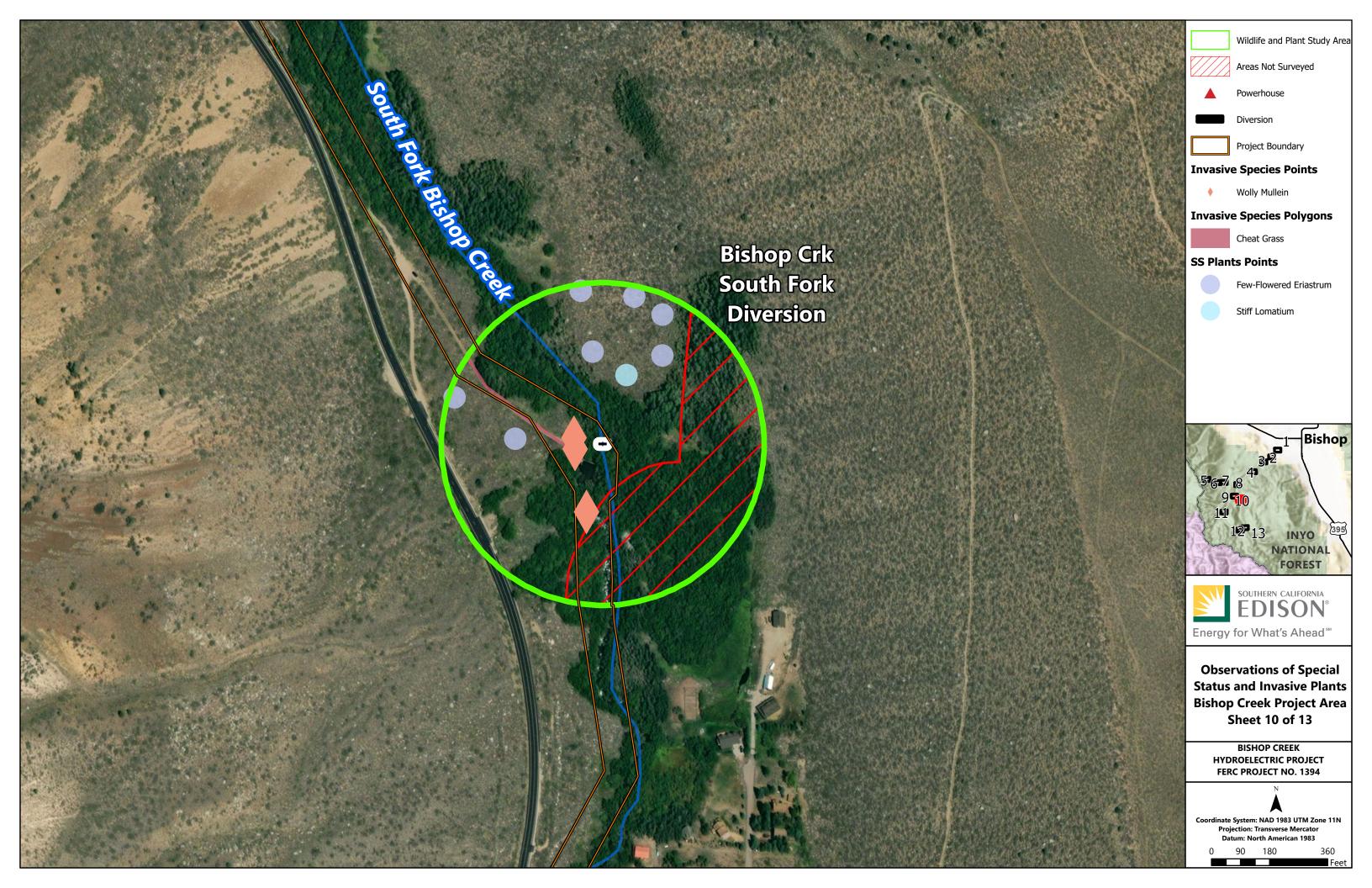
Middlefot



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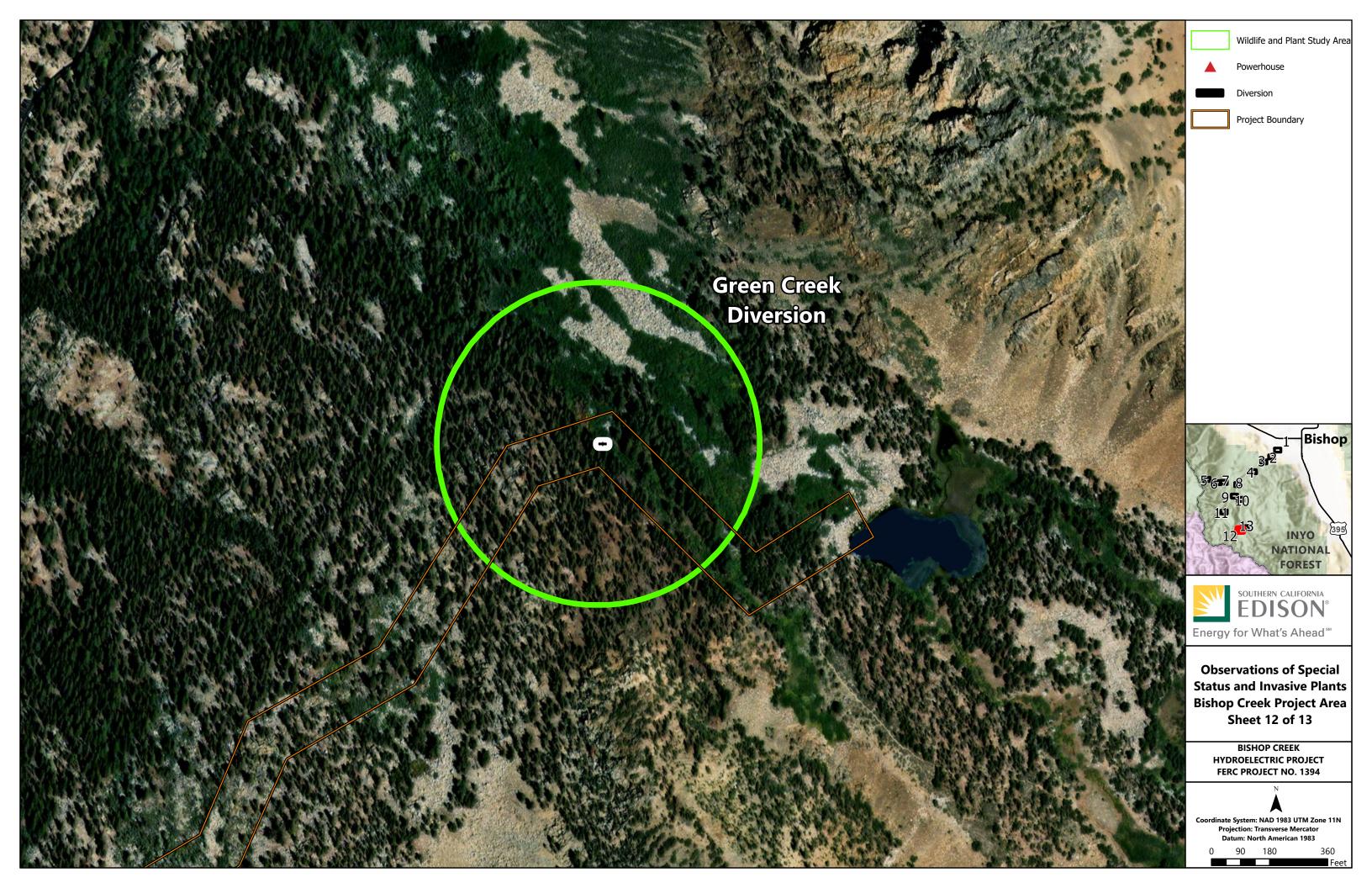
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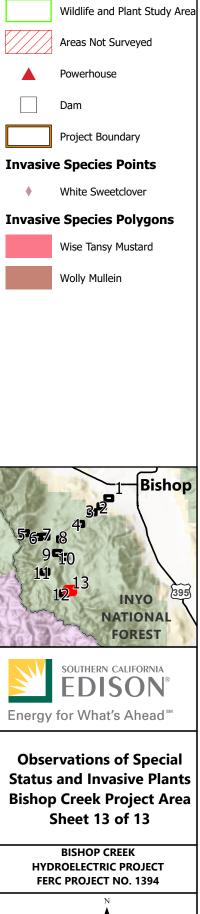
Wildlife and Plant Study Area Cheat Grass And Wolly Mullein Bishop **Observations of Special** Status and Invasive Plants Bishop Creek Project Area



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:



