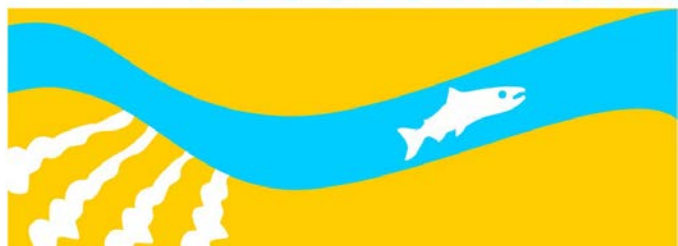


Attachment 1

2013 and 2014 Studies

**Final
2014 Monitoring and Analysis Plan**

**SAN JOAQUIN RIVER
RESTORATION PROGRAM**



Studies in the 2013 and 2014 Monitoring and Analysis Plans

Study Number	Study	Contact	Notes
1	Flow Gage Record Analysis	Katrina Harrison, Reclamation	Not proposed for 2014. Anticipates resuming in 2015.
2	Lateral Gradient of Water Table	Katrina Harrison, Reclamation	Study completed.
3	Changes in Soil Salinity Conditions Resulting from Interim Flows	Katrina Harrison, Reclamation	
4	Influence of Paleochannels on Seepage	Katrina Harrison, Reclamation / Matt Burgess, USGS	
5	Temperature Monitoring of the Cold Water Pool in Millerton Lake	Tracy Vermeyen, Reclamation	
6	Trap and Haul of Adult Fall-Run Chinook	Matt Bigelow, DFW / Don Portz, Reclamation / Zac Jackson, USFWS	
7	Juvenile Salmon Holding	Zac Jackson, USFWS / Paul Adelizi, DFW / Matt Bigelow, DFW	Study completed.
8	Egg Survival and Emergence in Reaches 1A and 1B of the San Joaquin River	Michelle Workman, USFWS	
9	Fish Assemblage Inventory and Monitoring	Michelle Workman, USFWS / Don Portz, Reclamation	
10	Juvenile Survival and Migration	Michelle Workman, USFWS / Paul Adelizi, DFW / Matt Bigelow, DFW	
11	Assessment of Predator Abundance and Distribution in Mine Pit Habitat in the San Joaquin River Restoration Area	Michelle Workman, USFWS	
12	Fall-Run Captive Rearing Study	Paul Adelizi, DFW	
13	Levee Geotechnical Exploration	Greg Farley, DWR	
14	Central Valley Steelhead Monitoring Plan	Don Portz, Reclamation	
15	San Joaquin River PIT Tag Monitoring and Site-Specific Technology Development	Don Portz, Reclamation / Michelle Workman, USFWS	
16	Floodplain Quality	Elaina Gordon, Reclamation	Study completed.
17	Bed Material Data Processing and Evaluation	Elaina Gordon, Reclamation	Study completed.
18	Continuous Surrogate Measurement of Bedload Sediment Transport using Hydrophone Installations on the San Joaquin River	Mathieu Marineau, USGS / J. Toby Minear, USGS / Scott A. Wright, USGS	

Studies in the 2013 and 2014 Monitoring and Analysis Plans (contd.)

Study Number	Study	Contact	Notes
19	Two-Dimensional Temperature Modeling of Gravel Pits in Reach 1A	Elaina Gordon, Reclamation	
20	Adult Passage	Amanda Peisch-Derby, DWR	
21	USGS Sediment Monitoring	Al Caldwell, USGS	
22	USGS San Joaquin River Tributary Sediment and Geomorphology Study	Scott Wright, USGS / Toby Minear, USGS	
23	Vegetation Monitoring	Greg Reed, Reclamation	Monitoring ongoing.
24	Additional Water Level Recorders	Dave Encinas, DWR	Monitoring ongoing.
25	Monitoring Cross-Section Resurveys	Dave Encinas, DWR	
26	Effect of Altered Flow Regime on Channel Morphology in Reach 1A	Matthew Meyers, DWR	Topographic resurveys of riffles and pools and scour chain monitoring will continue if sufficient flows occur.
27	Effect of Scour and Deposition on Incubation Habitat in Reach 1A	Matthew Meyers, DWR	Field component on hold pending data analysis and reporting.
28	Reach 1A Spawning Area Bed Mobility	Matthew Meyers, DWR	Field component on hold pending data analysis and reporting.
29	Thermal Conditions in Riverine Pools	Katrina Harrison, Reclamation	Study completed.
New Studies in 2014			
30	San Joaquin River Spawning Habitat Assessment – Incubation Environment	Andy Shriver, Reclamation / Matthew Meyers, DWR / Erica Meyers, DFW	
31	The Effects of a Riparian Forest on Water Temperatures in the Restoration Area	Katrina Harrison, Reclamation / Erica Meyers, DFW / Carl Mesick, USFWS / Michelle Workman, USFWS / Beth Wrege, NMFS	
32	Salmon Simulator (SalSim) for the SJRRP	Erica Meyers, Dean Marston, Dale Stanton, CDFW; Carl Mesick USFWS; Beth Wrege, NMFS	
33	Reducing Spring Water Temperatures below Sack Dam	Katrina Harrison, Reclamation / Erica Meyers, DFW / Carl Mesick, USFWS / Beth Wrege, NMFS	
34	Juvenile Chinook Salmon Migration and Survival in Mendota Pool and Sack Dam	Don Portz, Reclamation / Charles Hueth, Reclamation	
35	Floodplain Production Study	Erin Rice, Reclamation	

Studies in the 2013 and 2014 Monitoring and Analysis Plans (contd.)

Study Number	Study	Contact	Notes
36	Segregation Weir – Placement, Monitoring and Objective	Michelle Workman, USFWS / Matt Bigelow, DFW / Sierra Franks, NMFS	
37	SRH Group Facies Mapping	Blair Greimann, Reclamation / Katrina Harrison, Reclamation	
38	SRH Group Vegetation Roughness Effects in SJRRP-Affected Reaches	Blair Greimann, Reclamation	
39	SRH Group Hydraulic and Sediment Transport Analysis of Juvenile Salmon Rearing Opportunities	Blair Greimann, Reclamation	
40	SRH Group Spawning Habitat Framework	Blair Greimann, Reclamation	
41	USGS Seepage Management Plan Support	Erin Rice, Reclamation	
42	USGS Assessment of Water Quality Data with Respect to Fish	Marissa Wulff, USGS	
43	USGS Non-Structural Fish Passage	Erin Rice, Reclamation	
44	USGS Fish Passage Design Criteria Technical Memoranda	Erin Rice, Reclamation	
45	Rotary Screw Trap Monitoring	Matt Bigelow, DFW / Pat Ferguson, DFW / Michelle Workman, USFWS	
46	Donor Stock Monitoring	Zac Jackson, USFWS	
47	Spring Run Spawning Habitat Assessment –Sediment Mobility	Matthew Meyers, DWR	
48	Remote Sensing Applications to Estimate Changes in Riparian Vegetation	Erin Rice, Reclamation	

Key:

2D = two-dimensional

DFW = California Department of Fish and Wildlife

DWR = California Department of Water Resources

MAP = Monitoring and Analysis Plan

MYTR = Mid-Year Technical Report

Reclamation = U.S. Department of the Interior, Bureau of Reclamation

SRH = Sedimentation and River Hydraulics

USFWS = U.S. Fish and Wildlife Service

USGS = U.S. Geological Survey

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