SJRMR
SMN
SJRSM
SJHF
SJANMW
Reach 5
MUDSL
FFB
SJRFFB
SJS
SJRSTV
SJBSALT-SJRSALT-SJRBSS
Eastside Bypass
BCKCONFA & B
USCONFBRCRKA & B
MSG
Reach 4B2

0   0.5   1   2 Miles

N

RECLAMATION
Managing Water in the West

Reach 5
Temperature Monitoring Sites

SAN JOAQUIN RIVER
RESTORATION PROGRAM

Preliminary Data

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_temp.mxd

Last Updated: 6/28/2012

BCKCONFA

BCKCONFB

USCONFBRCRKA

USCONFBRCRKB

Reach 5

140

33

165

San Joaquin River
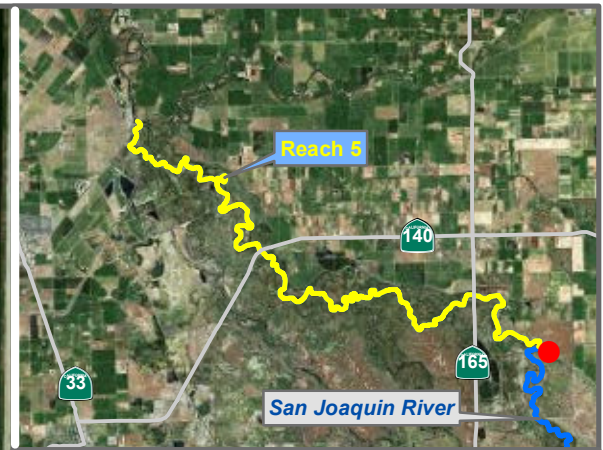
Reach = 5   Merced County
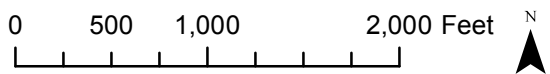River Mile = NA   Right Bank

X = -120.8240   Y = 37.2779   Status = Existing
(Horizontal Datum is NAD83)
Distance From River Centerline (ft)=
Reference Elevation (ft NAVD88) =
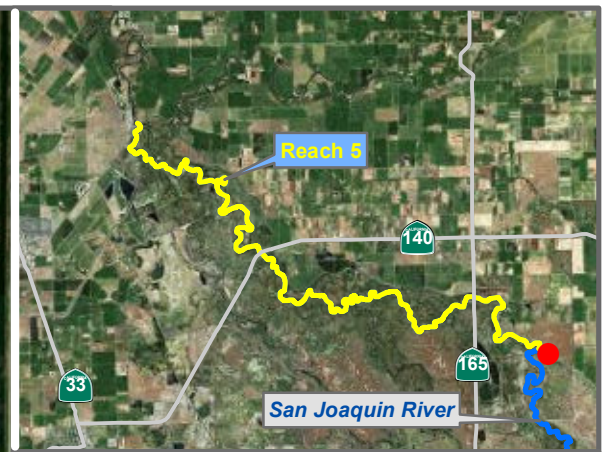Site = Bear Creek Upstream of Confluence with
SJR

Agency = USBR
Measurements:
    Type = Datalogger
    Interval = Hourly
    Timeseries unavailable

Description:
Cabled to 2 ft dia. willow tree at outfall of drainage
swale. 30 ft downstream of
BEARBRKUSCONFSJRA.

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

0   500   1,000   2,000 Feet   N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

● Temperature

Monitoring Location
BCKCONFA

Last Updated:
6/28/2012

* = assumed value
bgs = below ground surface
NR = not recorded

Preliminary Data

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_BCKCONFA.mxd

BCKCONFA

BCKCONFB

USCONFBRCRKA

USCONFBRCRKB

Reach = 5   Merced County
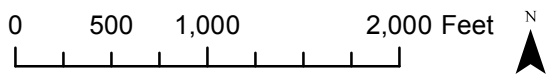River Mile = NA   Right Bank

X = -120.8241   Y = 37.2779   Status = Existing
(Horizontal Datum is NAD83)
Distance From River Centerline (ft)=
Reference Elevation (ft NAVD88) =
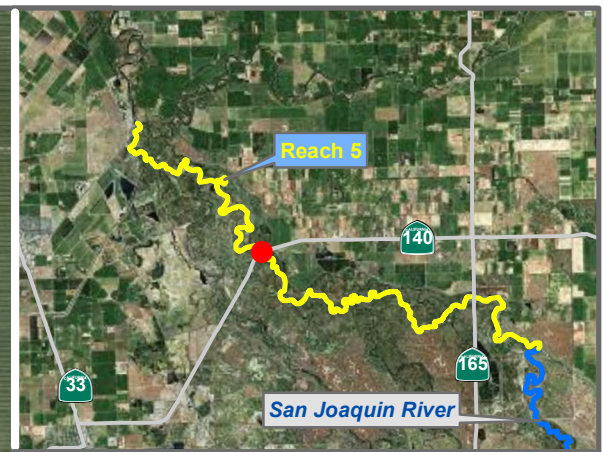Site = Bear Creek Upstream of Confluence with
SJR

Agency = USBR
Measurements:
    Type = Datalogger
    Interval = Hourly
    Timeseries unavailable

Description:
Cabled to 5 ft dia. willow tree at outfall of drainage
swale. 30 ft upstream of BEARBRKUSCONFSJRB.

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

0	500	1,000	2,000 Feet

SAN JOAQUIN RIVER
RESTORATION PROGRAM

◉ Temperature

Monitoring Location
BCKCONFB

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_BCKCONFB.mxd

Last Updated:
6/28/2012

* = assumed value
bgs = below ground surface
NR = not recorded

Preliminary Data

SJRFFB

FFB

Reach = 5   Merced County
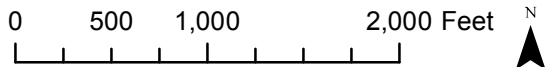River Mile = 125.1   Channel Bank

X = -120.9300   Y = 37.3100   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 139
Reference Elevation (ft NAVD88) =
Site = Fremont Ford Bridge

Agency = USGS
Measurements:
    Type = Telemetry
    Interval = 15 min
    Date Range = 5/8/2004 - 5/8/2012

Description:
Sensor at real-time flow gaging station

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

Reach 5

San Joaquin River

Monitoring Location
FFB

0   500   1,000   2,000 Feet

N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

Temperature

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_FFB.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data

MSG

Reach 5

San Joaquin River

Reach = 5   Merced County
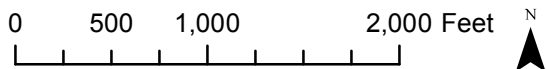River Mile = 131.0   Left Bank

X = -120.9056   Y = 37.2625   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 10150
Reference Elevation (ft NAVD88) =
Site = Mud Slough

Agency = USGS
Measurements:
   Type = Telemetry
   Interval = 15 min
   Date Range = 6/4/2004 - 5/8/2012

Description:
Sensor at real-time flow gaging station

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

0   500   1,000   2,000 Feet   N

Monitoring Location
MSG

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012
Preliminary Data

SJANMW

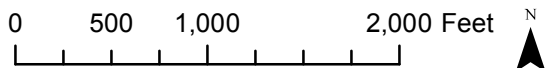**MUDSL**

Reach = 5   Merced County
River Mile = 121.2   Left Bank

X = -120.9508   Y = 37.3255   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 2030
Reference Elevation (ft NAVD88) =
Site = Mud Slough

Agency = DFG
Measurements:
   Type = Datalogger
   Interval = Hourly
   Date Range = 6/15/2010 - 10/25/2010

Description:

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

Reach 5

San Joaquin River

0   500   1,000   2,000 Feet

SAN JOAQUIN RIVER
RESTORATION PROGRAM

● Temperature

Monitoring Location
MUDSL

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_MUDSL.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data
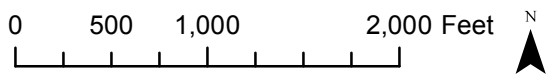
SJANMW

MUDSL

San Joaquin River

Reach 5

San Joaquin River

Reach = 5
River Mile = 121.0

Merced County
Channel Bank

X = -120.9526   Y = 37.3339
(Horizontal Datum is NAD83)
Distance From River (ft)= 74
Reference Elevation (ft NAVD88) =
Site = Newman Wasteway

Status = Existing

Agency = DFG
Measurements:
    Type = Datalogger
    Interval = Hourly
    Date Range = 6/15/2010 - 7/14/2010

Description:
Upstream of Newman Wasteway - data still needs to
be retrieved for IFP

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

0   500   1,000   2,000 Feet

N

Monitoring Location
SJANMW

SAN JOAQUIN RIVER
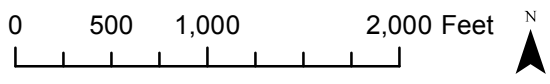RESTORATION PROGRAM

⬤ Temperature

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJANMW.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data

SJBSALT-SJRSALT-SJRBSS

Reach 5

140

33

165

San Joaquin River

Reach = 5   Merced County
River Mile = 127.5   Left Bank

X = -120.8990   Y = 37.2940   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 6
Reference Elevation (ft NAVD88) =
Site = Salt Slough

Agency = DFG
Measurements:
    Type = Datalogger
    Interval = Hourly
    Timeseries unavailable

Description:
downstream of Salt Slough confluence - data still
needs to be retrieved for IFP

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

0   500   1,000   2,000 Feet   N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

Monitoring Location
SJBSALT-SJRSALT-SJRBSS

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJBSALTSJRSALTSJRBSS.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data

Map labels on satellite imagery:

River Rd
Hills Ferry Rd
J18
Kelley Rd
J18
J18
Merced River
San Joaquin

SJRMR
SMN
SJHF
SJRSM

Reach 5
Reach 5
140
165
33
San Joaquin River

Reach = 5
River Mile = 118.5

X = -120.9761   Y = 37.3470
(Horizontal Datum is NAD83)
Distance From River (ft)= 14
Reference Elevation (ft NAVD88) =
Site = Merced Confluence

Stanislaus County
Channel Bank

Status = Existing

Agency = DFG
Measurements:
   Type = Datalogger
   Interval = Hourly
   Timeseries unavailable

Description:
Downstream of Hills Ferry barrier - data still needs
to be retrieved for IFP

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

0   500   1,000   2,000 Feet
N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

Monitoring Location
SJHF

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJHF.mxd

Last Updated:
6/28/2012

* = assumed value
bgs = below ground surface
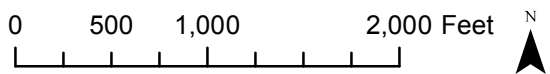NR = not recorded

Preliminary Data

SJRFFB

FFB

Reach 5

San Joaquin River

Reach = 5
River Mile = 125.0

Merced County
Channel Bank

X = -120.9305   Y = 37.3099
(Horizontal Datum is NAD83)
Distance From River (ft)= 4
Reference Elevation (ft NAVD88) =
Site = Fremont Ford Bridge

Status = Existing

Agency = DFG
Measurements:
    Type = Datalogger
    Interval = Hourly
    Timeseries unavailable

Description:

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

0   500   1,000   2,000 Feet

N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

Monitoring Location
SJRFFB

Last Updated:
6/28/2012

* = assumed value
bgs = below ground surface
NR = not recorded

Preliminary Data

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJRFFB.mxd

SJRMR

SMN

SJHF

SJRSM

River Rd

Hills Ferry Rd

J18

Kelley Rd

Merced River

San Joaquin

San Joaquin River

Reach 5

140

165

33
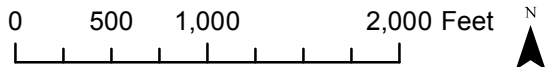
Reach = 5
River Mile = 118.5

Stanislaus County
Channel Bank

X = -120.9760   Y = 37.3470
(Horizontal Datum is NAD83)
Distance From River (ft)= 10
Reference Elevation (ft NAVD88) =
Site = Merced Confluence

Status = Existing

Agency = DFG
Measurements:
   Type = Datalogger
   Interval = Hourly
   Timeseries unavailable

Description:
downstream of Merced River confluence

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

Monitoring Location
SJRMR

SJRMR

SMN

SJHF

SJRSM

Reach 5

140

33

165

San Joaquin River

Reach = 5
River Mile = 118.5

Stanislaus County
Left Bank

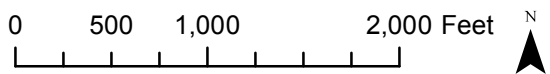X = -120.9761   Y = 37.3470
(Horizontal Datum is NAD83)
Distance From River (ft)= 14
Reference Elevation (ft NAVD88) =
Site = San Mateo Crossing

Status =

Agency = DFG
Measurements:
   Type = Datalogger
   Interval =
   Date Range = 4/19/2011 - 12/22/2011

Description:
Attached to stream guage at San Mateo Road crossing

Ground Surface Elevation (ft) =

Monitoring Depth (ft) =

Monitoring Location
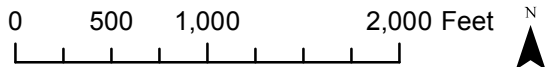## SJRSM

0   500   1,000   2,000 Feet

N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJRSM.mxd

Last Updated:
6/28/2012

* = assumed value
bgs = below ground surface
NR = not recorded

Preliminary Data

SJRSTV

SJS

San Joaquin River
Reach 5
140
165
33
San Joaquin River
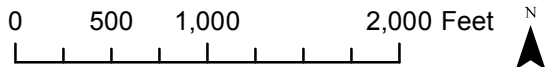
Reach = 5   Merced County
River Mile = 132.8   Channel Bank

X = -120.8500   Y = 37.2960   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 334
Reference Elevation (ft NAVD88) =
Site = Stevinson Bridge

Agency = DFG
Measurements:
    Type = Datalogger
    Interval = Hourly
    Date Range = 7/31/2008 - 10/26/2010

Description:
Hwy 140 bridge - data still needs to be retrieved for
IFP

Ground Surface Elevation (ft) =
Monitoring Depth (ft) = 1 ft above gs

Last Updated:
6/28/2012

Preliminary Data

0   500   1,000   2,000 Feet   N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⊙ Temperature

Monitoring Location
SJRSTV

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJRSTV.mxd

Reach 5

San Joaquin River

SJRSTV

San Joaquin

SJS

Reach = 5
River Mile = 132.8

Merced County
Channel Bank

X = -120.8510   Y = 37.2950
(Horizontal Datum is NAD83)
Distance From River (ft)= 92
Reference Elevation (ft NAVD88) =
Site = Stevinson

Status = Existing

Agency = DWR
Measurements:
    Type = Telemetry
    Interval = Hourly
    Date Range = 12/6/2011 - 5/8/2012

Description:
Sensor at real-time flow gaging station

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

0   500   1,000   2,000 Feet

N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

● Temperature

Monitoring Location
SJS

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SJS.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data

Reach = 5   Stanislaus County
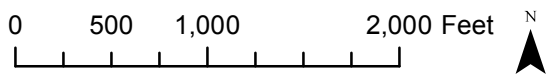River Mile = 118.4   Channel Bank

X = -120.9751   Y = 37.3473   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 22
Reference Elevation (ft NAVD88) =
Site = Near Newman

Agency = USGS
Measurements:
    Type = Telemetry
    Interval = 15 min
    Timeseries unavailable

Description:
Sensor at real-time flow gaging station

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

SJRMR   **SMN**
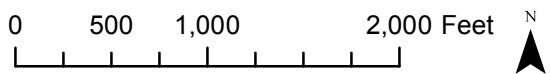
SJHF

SJRSM

0   500   1,000   2,000 Feet

Monitoring Location
SMN

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

Reach 5

San Joaquin River

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SMN.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data

SSH

Reach = 5   Merced County
River Mile = 139.0   Left Bank

X = -120.8511   Y = 37.2478   Status = Existing
(Horizontal Datum is NAD83)
Distance From River (ft)= 8353
Reference Elevation (ft NAVD88) =
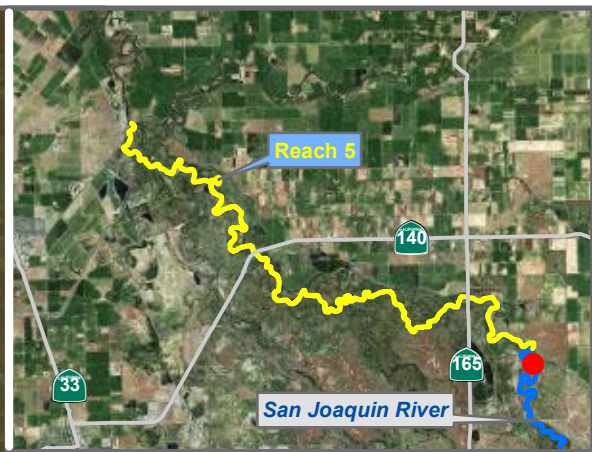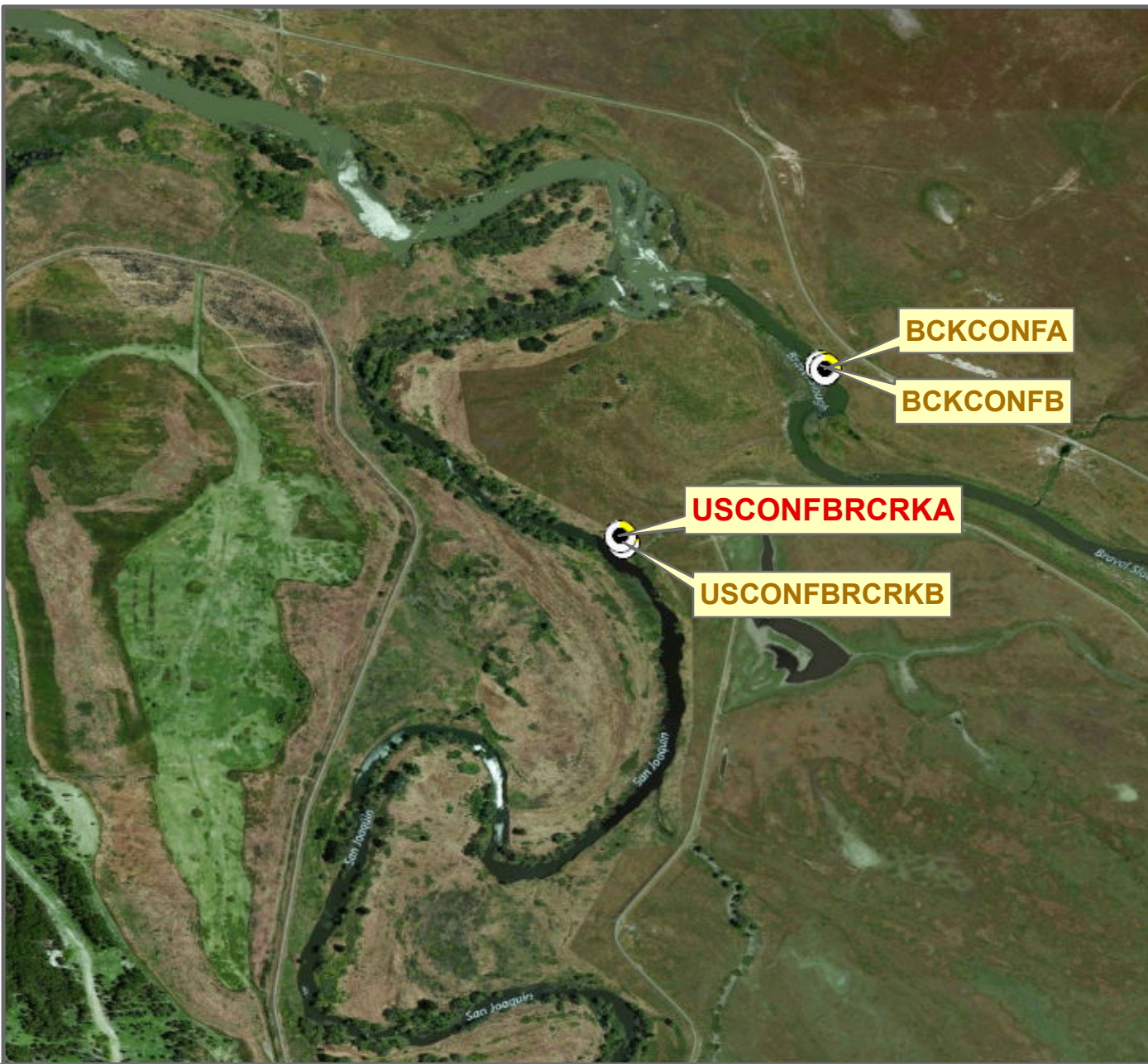Site = Salt Slough

Agency = USGS
Measurements:
     Type = Telemetry
     Interval = 15 min
     Date Range = 1/1/2009 - 5/8/2012

Description:
Sensor at real-time flow gaging station

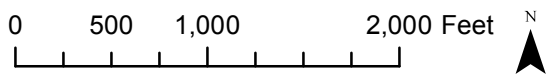Ground Surface Elevation (ft) =

Monitoring Depth (ft) =

0   500   1,000   2,000 Feet

N

SAN JOAQUIN RIVER
RESTORATION PROGRAM

Temperature

Monitoring Location
SSH

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_SSH.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012

Preliminary Data

BCKCONFA

BCKCONFB

USCONFBRCRKA

USCONFBRCRKB

San Joaquin River

Reach 5

Reach = 5   Merced County
River Mile = 136.4   Right Bank

X = -120.8276   Y = 37.2750   Status = Existing
(Horizontal Datum is NAD83)
Distance From River Centerline (ft)=
Reference Elevation (ft NAVD88) =
Site = SJR Upstream of Confluence with Bear
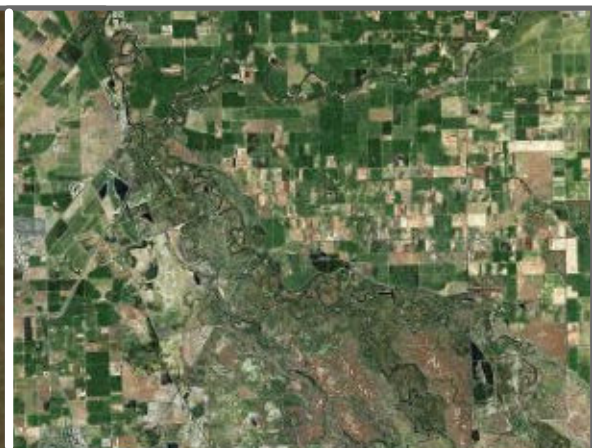Creek

Agency = USBR
Measurements:
    Type = Datalogger
    Interval = Hourly
    Timeseries unavailable

Description:
Cabled to willow tree downstream of access ramp
from levee road. 20 ft downstream of
SJRCONFBEARCREKB.

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

0   500   1,000   2,000 Feet

N

Monitoring Location
USCONFBRCRKA

SAN JOAQUIN RIVER
RESTORATION PROGRAM

⬤ Temperature

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_USCONFBRCRKA.mxd

Last Updated:
6/28/2012

* = assumed value
bgs = below ground surface
NR = not recorded

Preliminary Data

BCKCONFA

BCKCONFB

USCONFBRCRKA

USCONFBRCRKB
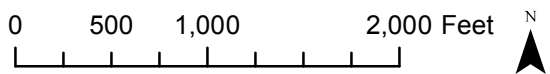
Reach = 5
River Mile = 136.4

Merced County
Right Bank

X = -120.8275   Y = 37.2749
(Horizontal Datum is NAD83)
Distance From River Centerline (ft)=
Reference Elevation (ft NAVD88) =
Site = SJR Upstream of Confluence with Bear Creek

Status = Existing

Agency = USBR
Measurements:
    Type = Datalogger
    Interval = Hourly
    Timeseries unavailable

Description:
Cabled to willow tree downstream of access ramp from levee road. 20 ft upstream of SJRCONFBEARCREEKA.

Ground Surface Elevation (ft) =
Monitoring Depth (ft) =

0   500   1,000   2,000 Feet

SAN JOAQUIN RIVER
RESTORATION PROGRAM

Temperature

Monitoring Location
USCONFBRCRKB

V:\SJRRP\Monitoring Well Data\Atlas_Temperature\R5_Well_USCONFBRCRKB.mxd

* = assumed value
bgs = below ground surface
NR = not recorded

Last Updated:
6/28/2012
Preliminary Data