

**APPENDIX M:**

**Grasslands Basin Site Information and Photographic Documentation**

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M1: 541MER531 – Salt Slough at Lander Avenue (Highway 165).....03-04  
M2: 541MER536 – Mud Slough Upstream of SLD Terminus.....05-06  
M3: 541MER535 – San Luis Drain at Terminus.....07-08  
M4: 541MER542 – Mud Slough (North) at SLD.....09-10

## **M1: 541MER531 – Salt Slough at Lander Avenue (Highway 165)**

### MONITORING SITE INFORMATION

#### Site Description, Location and Access:

The site is located on Lander Avenue approximately 13.0 miles north of Los Banos and 5.0 miles south of Highway 140. The samples are taken at the northeast corner of bridge.

Township/Range/Section: NW ¼, SE ¼, SE ¼, Section 10, T8S, R10E (DWR#8S/10E-10R)

Latitude/Longitude:     Lat. N 37° 14' 55"  
                                  Long. W 120° 51' 04"

County:                 Merced                                 USGS Quad Map: San Luis Ranch, CA

#### WATER SOURCE

The water at this site is a blend of surface tail water, operational spills, and wetland drainage from the Salt Slough area. This site represents the drainage from the Grassland Watershed entering the San Joaquin River above Highway 140. The water quality and quantity at the site will vary, but the range of variation is dampened by the large amount of area, which drains into the San Joaquin River. Salinity is expected to be elevated.



Water Year 2004 – Dry

Water Year 2005 – Wet

Rainy Season



02/26/04



02/17/05

Spring Runoff



04/29/04



04/28/05

Irrigation Season



07/29/04



07/28/05

Dry Season



09/30/04



09/22/05

## **M2: 541MER536 – Mud Slough Upstream of SLD Terminus**

### MONITORING SITE INFORMATION

Site Description, Location and Access:

Township/Range/Section: SE ¼, SE ¼, Section 6, T8S, R10E

Latitude/Longitude:     Lat. N 37° 15' 15"  
                                  Long. W 120° 54' 25"

County: Merced

USGS Quad Map: Gustine, CA

### WATER SOURCE

Mud Slough (north) at this site carries mainly wetland spills and drainage. The flow is highly variable throughout the year, ranging from high flow during the wet season and during periods of wetland releases to very low flow during the summer and early fall. The water is usually elevated with respect to salinity.





Water Year 2004 – Dry

Water Year 2005 – Wet

Rainy Season



02/26/04



02/17/05

Spring Runoff



04/29/04



04/28/05

Irrigation Season



07/29/04



07/28/05

Dry Season



09/30/04



09/22/05

### **M3: 541MER535 – San Luis Drain at Terminus**

#### MONITORING SITE INFORMATION

Site Description, Location and Access:

Township/Range/Section: SE ¼, SE ¼, Section 6, T8S, R10E

Latitude/Longitude:     Lat. N 37° 14' 26"  
                                  Long. W 120° 52' 55"

County:                 Merced

USGS Quad Map: Gustine, CA

#### WATER SOURCE

This water at this site consists of subsurface agricultural drainage from the Grassland Watershed. The water is elevated with respect to salinity, selenium, and boron. Flows at this site are highly managed and tend to have the highest concentrations of salt selenium and boron in during the pre-irrigation season, with concentrations decreasing throughout the year to a minimum during the non-irrigation season.





Water Year 2004 – Dry

Water Year 2005 – Wet

Rainy Season



01/29/04



02/17/05

Spring Runoff



04/29/04



04/28/05

Irrigation Season



07/29/04



07/28/05

Dry Season



09/30/04



09/22/05



## **M4: 541MER542 – Mud Slough (North) at SLD**

### MONITORING SITE INFORMATION

#### Site Description, Location and Access:

The monitoring site is located approximately 5.2 miles east of Gustine and 2 miles southeast of Highway 140. The site is located at the footbridge 400 ft northwest of the terminus of the San Luis Drain. The site is located in the Kesterson National Wildlife Refuge. The USGS gauge is at the site. The sample is taken at the bridge.

Township/Range/Section: SE ¼, SE ¼, Section 6, T8S, R10E

Latitude/Longitude:     Lat. N 37° 15' 50"  
                                  Long. W 120° 54' 22"

County: Merced

USGS Quad Map: Gustine

#### WATER SOURCE

Mud Slough (North) at this site carries a blend of subsurface tile drainage water and discharges from surrounding duck clubs. The main flow in Mud Slough (North) is composed of subsurface agricultural drainage flows from the San Luis Drain and seasonal wetland releases. Water quality at this site is elevated with respect to salinity, selenium, and boron.



Water Year 2004 – Dry

Water Year 2005 – Wet

Rainy Season



01/29/04



02/17/05

Spring Runoff



04/29/04



04/28/05

Irrigation Season



07/29/04



07/28/05

Dry Season



09/30/04



09/22/05