

Appendix B: Chain of Custody Forms and Field Data Sheets

July 2015

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year:	FY 14/15	Date:	07-28-15	Contact Person:	Jim Orlando
Region:	RWQCB5	Event Type:	Regular	Phone:	916-278-3271
Project Code:		Protocol Code:		email:	jorlando@usgs.gov
Work Order:		Field Crew:	JD JD PB A	Mailing Address:	6000 J St Sacramento CA
Agency Code:	RWQCB5	Field Crew:			

[illegible]

Comments:

Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test


Samples Relinquished by:		Samples Received by:	
Name (Print and Sign)	James Orlando Smith	Date & Time	7-28-15 1515
			LINDA DEANOVIC


* one not labeled, set aside

MONITORING PLAN – Attachment 4 – Sample Field Sheet
SWAMP RECREATIONAL USE STUDY
LABOR DAY WEEKEND 2008

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - Event					Type=WQ		EQI Board (15 Jun 2008) Date		Pg of Pgs							
*StationID: <u>S110LCABR</u>			*Date (mm/dd/yyyy): <u>07 128 1205</u>			*Group:			*Agency:							
*Funding:			ArrivalTime: <u>1405</u>		DepartureTime: <u>1430</u>		*SampleTime (1st sample): <u>1420</u>			*Protocol:						
*Personnel: <u>Jo Jo PB, AR</u>			*Purpose (circle all that apply): <input checked="" type="checkbox"/> WaterChem <input checked="" type="checkbox"/> WaterTox <input type="checkbox"/> FieldObs <input type="checkbox"/> FieldMeasure						*PurposeFailure:							
*Location: Bank Thalweg <input checked="" type="checkbox"/> Midchannel <input type="checkbox"/> OpenWater			*GPS/DGPS		Lat (dd.ddddd):		Long (ddd.ddddd):		OCCUPATION METHOD: <input checked="" type="checkbox"/> Walk-in <input type="checkbox"/> Bridge <input type="checkbox"/> R/V <input type="checkbox"/> Other							
GPS Device:			Target:		<u>38.306579</u>		<u>-121.794682</u>		STARTING BANK (facing downstream): <input checked="" type="checkbox"/> RB / NA							
Datum: NAD83		Accuracy (ft/m):		*Actual:		<u>38.30702</u>		<u>-121.79415</u>		Point of Sample (if Integrated, then -88 in dbase)						
Field Observations (SampleType = FieldObs)					WADEABILITY: <input checked="" type="checkbox"/> N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>15</u>		STREAM WIDTH (m): <u>35</u>					
SITE ODOR: <input checked="" type="checkbox"/> None, Sulfides, Sewage, Petroleum, Mixed, Other					WIND DIRECTION (from):				HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		LOCATION (to sample): US / DS / WI /					
SKY CODE: <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy, Overcast, Fog					OTHERPRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):					1: (RB / LB / BB / US / DS / ##)				
DOMINANTSUBSTRATE: Bedrock, Concrete, <input checked="" type="checkbox"/> Gravel, Sand, Mud, Unk, Other <u>Rip rap</u>					WATERCLARITY: Clear (see bottom), <input checked="" type="checkbox"/> Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION: <input checked="" type="checkbox"/> None, Fog, Drizzle, Rain, Snow					2: (RB / LB / BB / US / DS / ##)	
WATERODOR: <input checked="" type="checkbox"/> None, Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs):					Unknown, <1", >1", None					3: (RB / LB / BB / US / DS / ##)	
WATERCOLOR: Colorless, Green, Yellow, <input checked="" type="checkbox"/> Brown					OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, <input checked="" type="checkbox"/> 50-200cfs, >200cfs											
Field Measurements (SampleType = FieldMeasure; Method = Field)																
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units _____)					
SUBSURF/MID/BOTTOM/REP	<u>0.3</u>			<u>25.18</u>	<u>7.87</u>	<u>7.06</u>		<u>695</u>								
SUBSURF/MID/BOTTOM/REP																
SUBSURF/MID/BOTTOM/REP																
Instrument:																
Calib. Date:																
Samples Taken (# of containers filled) - Method=Water Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)										
SAMPLE TYPE: Grab / Integrated		COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other														
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs			
Sub/Surface																
Sub/Surface																
COMMENTS:																

MONITORING PLAN - Attachment 4 - Sample Field Sheet
SWAMP RECREATIONAL USE STUDY
LABOR DAY WEEKEND 2008

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					REQ. BOARD (16 JUL 2008) Entered in database (initial date)		Pg	of	Pgs					
*StationID: <u>544LSACL3</u>		*Date (mm/dd/yyyy): <u>07/28/2005</u>		*Group:		*Agency:								
*Funding:		ArrivalTime: <u>1050</u>		DepartureTime: <u>1115</u>		*SampleTime (1st sample): <u>1110</u>		*Protocol:						
*Personnel: <u>TO, SD, PB, AR</u>		*Purpose (circle all that apply): <u>WaterChem</u> <u>WaterTox</u> <u>FieldObs</u> <u>FieldMeasure</u>				*PurposeFailure:								
*Location: <u>Bank</u> <u>Thalweg</u> <u>Midchannel</u> <u>OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd):		Long (ddd.ddddd):		OCCUPATION METHOD: <u>Walk-in</u> <u>Bridge</u> <u>R/V</u> <u>Other</u>						
GPS Device: <u>Magellan</u>		Target:		<u>37.975278</u>		<u>-121.376847</u>		STARTING BANK (facing downstream): <u>LB</u> / <u>RB</u> / <u>NA</u>						
Datum: NAD83		Accuracy (ft/m): <u>12</u>		*Actual:		<u>37.97451</u>		<u>-121.37637</u>						
Field Observations (SampleType = FieldObs)				WADEABILITY: <input checked="" type="checkbox"/> N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>2</u>						
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other				WIND DIRECTION (from):				HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other						
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog				OTHERPRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)						
DOMINANTSUBSTRATE: <u>Bedrock</u> , Concrete, Cobble, Gravel, Sand, Mud, Unk, Other				WATERCLARITY: <u>Clear</u> (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)						
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other				WATERCOLOR: <u>Colorless</u> , <u>Green</u> , Yellow, Brown		PRECIPITATION (last 24 hrs): <u>Unknown</u> , <1", >1", None		3: (RB / LB / BB / US / DS / ##)						
OBSERVED FLOW: <u>NA</u> , Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs														
Field Measurements (SampleType = FieldMeasure; Method = Field)														
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)			
SUBSURF/MID/BOTTOM/REP	<u>1</u>			<u>26.31</u>	<u>8.15</u>	<u>8.76</u>		<u>1370</u>						
SUBSURF/MID/BOTTOM/REP														
SUBSURF/MID/BOTTOM/REP														
Instrument:														
Calib. Date:														
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)									
SAMPLE TYPE: <u>Grab / Integrated</u>		COLLECTION EQUIPMENT: <u>Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other</u>												
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs	
Sub/Surface														
Sub/Surface														
COMMENTS:														


SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - Event Type=WQ										Entered in database (initial date)		Pg	of	Pgs
*StationID: <u>5415JC501</u>		*Date (mm/dd/yyyy): <u>07 128 12015</u>			*Group:			*Agency: <u>USGS</u>						
*Funding:		ArrivalTime:		DepartureTime:		*SampleTime (1st sample): <u>1215</u>			*Protocol:					
*Personnel:		*Purpose (circle all that apply): WaterChem WaterTox FieldObs FieldMeasure						*PurposeFailure:						
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: <u>Walk-in</u> Bridge R/V _____ Other _____						
GPS Device: <u>Magellan</u>		Target:		<u>37.676041</u>		<u>- 121.268329</u>		STARTING BANK (facing downstream): LB / RB / NA						
Datum: NAD83		Accuracy (ft / m):		*Actual:		<u>37.67534</u>		Point of Sample (if Integrated, then -88 in dbase)						
Field Observations (SampleType = FieldObs)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>10</u>		STREAM WIDTH (m): <u>40</u>				
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____				WIND DIRECTION (from):				HYDROMODIFICATION: <u>None</u> , Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other _____						
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog				OTHERPRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____		DOMINANTSUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, <u>Mud</u> , Unk, Other _____		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):						
WATERCLARITY: <u>Clear</u> (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow				2: (RB / LB / BB / US / DS / ##)						
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____				PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>				3: (RB / LB / BB / US / DS / ##)						
WATERCOLOR: <u>Colorless</u> , Green, Yellow, Brown				OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, <u>20-50cfs</u> , 50-200cfs, >200cfs										
Field Measurements (SampleType = FieldMeasure; Method = Field)														
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units _____)			
SUBSURF/MID/BOTTOM/REP	<u>0.6</u>			<u>25.26</u>	<u>7.88</u>	<u>8.97</u>		<u>962</u>						
SUBSURF/MID/BOTTOM/REP														
SUBSURF/MID/BOTTOM/REP														
Instrument:														
Calib. Date:														
Samples Taken (# of containers filled) - Method=Water Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION EQUIPMENT:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____										
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs	
Sub/Surface														
Sub/Surface														
COMMENTS:														

MONITORING PLAN - Attachment 4 - Sample Field Sheet
SWAMP RECREATIONAL USE STUDY
LABOR DAY WEEKEND 2008

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - Event Type=WQ										Entered in database (initial date)		Pg	of	Pgs			
*StationID: <u>5445AC002</u>		*Date (mm/dd/yyyy): <u>07 128 12015</u>				*Group:				*Agency: <u>USGS</u>							
*Funding: _____		ArrivalTime: <u>0930</u>		DepartureTime: <u>1200</u>		*SampleTime (1st sample): <u>0950</u>				*Protocol:							
*Personnel: <u>SOJO PB A</u>		*Purpose (circle all that apply): <u>WaterChem</u> <u>WaterTox</u> <u>FieldObs</u> <u>FieldMeasure</u>						*PurposeFailure:									
*Location: Bank Thalweg <u>Midchannel</u> <u>OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd): _____		Long (ddd.ddddd): _____		OCCUPATION METHOD: Walk-in <u>Bridge</u> R/V _____ Other _____									
GPS Device: <u>Magellan</u>		Target: <u>34.23639</u>		- <u>121.419167</u>		STARTING BANK (facing downstream): LB / RB / NA											
Datum: NAD83		Accuracy (ft / m): <u>12</u>		*Actual: <u>34.23650</u>		- <u>121.419206</u>		Point of Sample (if Integrated, then -88 in dbase)									
Field Observations (SampleType = FieldObs)										WADEABILITY: Y / <u>N</u> / Unk		BEAUFORT SCALE (see attachment): _____		DISTANCE FROM BANK (m): <u>20</u>		STREAM WIDTH (m): <u>40</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____										WIND DIRECTION (from): _____		HYDROMODIFICATION: <u>None</u> , Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other _____		LOCATION (to sample): US / DS / WI /			
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog										PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)					
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____												2: (RB / LB / BB / US / DS / ##)					
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, <u>Mud</u> , Unk, Other _____												3: (RB / LB / BB / US / DS / ##)					
WATER CLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)										PRECIPITATION: None, Fog, Drizzle, Rain, Snow							
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____										PRECIPITATION (last 24 hrs): Unknown, <1", >1", None							
WATER COLOR: Colorless, <u>Green</u> , Yellow, Brown																	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, <u>20-50cfs</u> , 50-200cfs, >200cfs																	
Field Measurements (SampleType = FieldMeasure; Method = Field)																	
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units _____)						
SUBSURF/MID/BOTTOM/REP	<u>0.75</u>			<u>24.16</u>	<u>8.17</u>	<u>8.04</u>		<u>122</u>									
SUBSURF/MID/BOTTOM/REP																	
SUBSURF/MID/BOTTOM/REP																	
Instrument:																	
Calib. Date:																	
Samples Taken (# of containers filled) - Method=Water_Grab										Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____															
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs				
Sub/Surface																	
Sub/Surface																	
COMMENTS:																	

MONITORING PLAN - Attachment 4 - Sample Field Sheet
SWAMP RECREATIONAL USE STUDY
LABOR DAY WEEKEND 2008

- Swamp

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in database (initial update)		Pg	of	Pgs				
*StationID: <u>510SACHOD</u>		*Date (mm/dd/yyyy): <u>07/28/2015</u>		*Group:		*Agency: <u>USGS</u>							
*Funding:		ArrivalTime: <u>0815</u>		DepartureTime: <u>0900</u>		*SampleTime (1st sample): <u>0845</u>		*Protocol:					
*Personnel: <u>JOJO 28 A</u>		*Purpose (circle all that apply): <u>WaterChem</u> <u>WaterTox</u> FieldObs FieldMeasure				*PurposeFailure:							
*Location: Bank Thalweg Midchannel <u>OpenWater</u>		*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge RV <u>Catch</u> Other					
GPS Device: <u>Magellan</u>		Target:		<u>38.367967</u>		<u>-121.521343</u>		STARTING BANK (facing downstream): LB / RB / NA					
Datum: NAD83		Accuracy (ft / m): <u>18</u>		*Actual:		<u>38.367980</u>		<u>-121.521350</u>					
Field Observations (SampleType = FieldObs)		WADEABILITY: <u>Y/N</u> Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>10</u>		STREAM WIDTH (m): <u>200</u>					
SITE ODOR: <u>None</u> Sulfides, Sewage, Petroleum, Mixed, Other		WIND DIRECTION (from):				HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		LOCATION (to sample): US / DS / WI /					
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog		OTHERPRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)							
DOMINANTSUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, <u>Mud</u> Unk, Other		WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)							
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>		3: (RB / LB / BB / US / DS / ##)									
WATERCOLOR: Colorless, <u>Green</u> , Yellow, Brown		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, <u>>200cfs</u>											
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)	Stage Ht (units)		
SUBSURF/MID/BOTTOM/REP	<u>1</u>			<u>23.70</u>	<u>7.16</u>	<u>7.17</u>		<u>132</u>				<u>2.0830</u>	
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION EQUIPMENT: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other											
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS:													

August 2015

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year: FY 14/15	Date:	Contact Person: Jim Orlando
Region: RWQCB5	Event Type:	Phone: 916-278-3271
Project Code:	Protocol Code:	email: jorlando@usgs.gov
Work Order:	Field Crew:	Mailing Address: 6000 J St Sacramento CA 95819
Agency Code: RWQCB5	Field Crew:	

StationCode	Sample Type Code	Location Code	Sample Date	Collection Time	CollectionDepth wat (m)	Salinity (ppt)	Spec. Cond. (µS/cm)	Field Preservation	Water Toxicity 4 L Amber	
1400										
510SACC3A ²	GRAB	Midchannel	08/18/2015	0840	2.0	.08	169	Wet Ice	8	
544SAC002	GRAB	Midchannel	08/18/2015	0950	2.0	.06	130	Wet Ice	8	
544LSAC13	GRAB	Bank	08/18/2015	1110	0.5	.68	1362	Wet Ice	8	
541SJC501	GRAB	Midchannel	08/18/2015	1250	0.5	.68.32	668	Wet Ice	8	
510SOL010	GRAB	Midchannel	08/18/2015	1500	0.2	.37	763	Wet Ice	8	
510SOL010	GRAB	Bank	08/18/2015	1500						
Field QC	Grab	Bank	8/18/2015		0.5	.68	1362	Wet Ice	8	
TOTAL									0	0

Comments:

Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by:


Name (Print and Sign) Gregory Brewster Gregory Brewster

Date & Time 8-18-15 1600

Samples Received by:


Name (Print and Sign) G. Merrill 8/15/15 081515

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 541SJC501			*Date (mm/dd/yyyy): 08 / 18 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 1250		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: (Walk-in) Bridge R/V Other				
GPS Device: Magellan			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): LB / (RB) NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		37.67531		-121.26521		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: (N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m):		STREAM WIDTH (m):		
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from): S				PHOTOGRAPHIC LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /		
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Smoky, Hazy					PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode): 1: (RB / LB / BB / US / DS / ##)								
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					2: (RB / LB / BB / US / DS / ##)								
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, (Sand) Mud, Unk, Other					3: (RB / LB / BB / US / DS / ##)								
WATER CLARITY: (Clear (see bottom)) Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION: (None) Fog, Drizzle, Rain, Snow								
WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)								
WATER COLOR: (Colorless) Green, Yellow, Brown					EVIDENCE OF FIRES: (No) <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): (none) light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), (0.1-1cfs), 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	.50	.50	31.65	26.62	7.83	8.60	107.3	668	.32	6.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg	of	Pgs		
*StationID: 544SAC002			*Date (mm/dd/yyyy): 08 / 18 / 2015			*Group:		*Agency: USGS					
*Funding: _____			ArrivalTime: 0935		DepartureTime: 1005		*SampleTime (1st sample): 0950		*Protocol:				
*ProjectCode:			*Personnel: JO, GB, MD, SD			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:				
*Location: Bank Thalweg <u>Midchannel</u> OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: <u>Walk-in</u> Bridge R/V _____ Other				
GPS Device: <u>Magellan</u>			Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / <u>RB</u> / <u>NA</u>				
Datum: NAD83		Accuracy (ft / m):		*Actual:		38.23644		-121.41906		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / <u>N</u> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE <u>RB</u> FROM BANK (m): 10		STREAM WIDTH (m):		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____					WIND DIRECTION (from): <u>SW</u>				PHOTOMODIFICATION: <u>None</u> , Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other				
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy					LOCATION (to sample): US / DS / WI /								
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____					PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)								
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, <u>Sand</u> , Mud, Unk, Other _____					1: (RB / LB / BB / US / DS / ##)								
WATERCLARITY: Clear (see bottom), <u>Cloudy (>4" vis)</u> , Murky (<4" vis)					PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow					2: (RB / LB / BB / US / DS / ##)			
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____					PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>					3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>					EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, <u>unknown</u>													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), <u>0.1-1cfs</u> , 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1.0	0.1	18.22	25.14	7.94	7.91	96	130	.06	11.0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SACC3A			*Date (mm/dd/yyyy): 08 / 18 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0825		DepartureTime:		*SampleTime (1st sample): 0840		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: (Walk-in) Bridge R/V Other				
GPS Device: Magellan			Target:		38.367967		-121.521343		STARTING BANK (facing downstream): LB / (RB) / NA				
Datum: NAD83		Accuracy (ft/m):		*Actual:		38.36773		-121.52045		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / (N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 60		STREAM WIDTH (m):		
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from): SW				AERIAL ZIPLINE LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		WATER DEPTH (m): 2.0		
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Smoky, Hazy					PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)								
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					1: (RB / LB / BB / US / DS / ##)								
DOMINANT SUBSTRATE: Bedrock, Concrete, (Cobble, Boulder, Gravel, Sand, Mud) Unk, Other					2: (RB / LB / BB / US / DS / ##)								
WATER CLARITY: (Clear) (see bottom), Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION: (None) Fog, Drizzle, Rain, Snow					3: (RB / LB / BB / US / DS / ##)			
WATER ODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)								
WATER COLOR: Colorless, (Green) Yellow, Brown					EVIDENCE OF FIRES: (No) <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): (none) light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), (0.1-1cfs), 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF (MID) / BOTTOM / REP	2.0	4.20	17.49	24.90	7.45	7.11	85.9	169	.08	6.7			
SUBSURF (MID) / BOTTOM / REP													
SUBSURF (MID) / BOTTOM / REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ								Entered in d-base (initial/date)		Pg	of	Pgs			
*StationID: 510SOL010				*Date (mm/dd/yyyy): 08 / 18 / 2015				*Group:		*Agency: USGS					
*Funding:				ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 1500		*Protocol:					
*ProjectCode:				*Personnel: JO. GB. MD. JD		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge RV Other					
GPS Device: Magellan				Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB (RB) / NA					
Datum: NAD83		Accuracy (ft / m):		*Actual:		38.30699		-121.79402		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 12		STREAM WIDTH (m):			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from): SW				PHOTOGRAPHIC LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /			
SKY CODE: Clear Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other						PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)	
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None						3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, Brown						EVIDENCE OF FIRES: No <1 year, <5 years									
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown															
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs															
Field Measurements (SampleType = FieldMeasure; Method = Field)															
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)					
SUBSURF/MID/BOTTOM/REP	.20	1.5	27.43	24.0	7.99	8.21	97.7	763	0.37	14.0					
SUBSURF/MID/BOTTOM/REP															
SUBSURF/MID/BOTTOM/REP															
Instrument:															
Calib. Date:															
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)									
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs		
Sub/Surface															
Sub/Surface															
COMMENTS: Ulatis Creek at Browns Road for Delta RMP															

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg	of	Pgs		
*StationID: 544LSAC13			*Date (mm/dd/yyyy): 08 / 18 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 1110		*Protocol:				
*ProjectCode:			*Personnel: JO, GB, MD, SD		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: (Walk-in) Bridge R/V Other				
GPS Device: Magellan			Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / (RB) NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		37.97451		-121.37634		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 30		STREAM WIDTH (m):		
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from): NW				INTERCOMBINATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /		
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Smoky, Hazy					PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):								
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					1: (RB / LB / BB / US / DS / ##)								
DOMINANT SUBSTRATE: Bedrock, Concrete, (Cobble) Boulder, Gravel, Sand, Mud, Unk, Other					2: (RB / LB / BB / US / DS / ##)								
WATERCLARITY: Clear (see bottom), (Cloudy >4" vis), Murky (<4" vis)					PRECIPITATION: (None) Fog, Drizzle, Rain, Snow								
WATERODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)								
WATERCOLOR: Colorless, Green, Yellow, Brown (Blue)					EVIDENCE OF FIRES: (No) <1 year, <5 years					3: (RB / LB / BB / US / DS / ##)			
OVERLAND RUNOFF (Last 24 hrs): (none) light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	.50	.10	20.5	25.99	7.68	6.17	76.4	1362	.68	16.0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

September 2015


SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year: <u>FY 14/15</u>	Date: <u>9/23/15</u>	Contact Person: <u>Jim Orlando</u>
Region: <u>RWQCB5</u>	Event Type: <u>Monthly Sampling</u>	Phone: <u>916-278-3271</u>
Project Code: _____	Protocol Code: _____	Email: <u>jorlando@usgs.gov</u>
Work Order: _____	Field Crew: <u>10 S NDP</u>	Mailing Address: <u>6000 J St Sacramento CA 95819</u>
Agency Code: <u>RWQCB5</u>	Field Crew: _____	

Station Code	Sample Type Code	Location Code	Sample Date	Collection Time	Collection Depth wat (m)	Salinity (ppt)	Spec. Cond. (µS/cm)	Field Preservation	Water Toxicity	
									4 L Amber	
510SACC3A	GRAB	Midchannel	9/23/15	0830	0.5	0.08	172	Wet Ice	8 4L	
544SAC002	GRAB	Midchannel	9/23/15	0920	0.5	0.09	187	Wet Ice	8 4L	
544LSAC13	GRAB	Bank	9/23/15	1045	0.5	0.71	1414	Wet Ice	8 4L	
541SJC501	GRAB	Midchannel	9/23/15	1220	0.5	0.34	706	Wet Ice	8 4L	
510SOL010	GRAB	Midchannel	9/23/15	1415	0.1	0.52	1053	Wet Ice	8 4L	
TOTAL									0	0

Comments:
 Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by:	Date & Time	Samples Received by:
Name (Print and Sign)		Name (Print and Sign)
<u>James Orlando</u>	<u>9/23/15 1515</u>	<u>[Signature]</u> <u>G. Merrill</u>
<u>[Signature]</u>		<u>09/23/15 1515</u>

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 510SACC3A				*Date (mm/dd/yyyy): 09 / 23 / 2015				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 0815		DepartureTime: 0845		*SampleTime (1st sample): 0930		*Protocol:			
*ProjectCode:				*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V <u>Pair</u> Other			
GPS Device:				Target:		38.367967		-121.521343		STARTING BANK (facing downstream): <u>LB</u> RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		38.36758		-121.52032		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 100	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				INTERMEDIATION: None, Bridge, Pipes, Concretechannel, Gradecontrol, Culvert, AerialZipline, Other			
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / <u>US / DS</u> / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, <u>Cobble</u> , Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>		EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, <u>Green</u> , Yellow, Brown						OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, <u>50-200cfs</u> , >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	0.5	14.84	20.87	7.75	8.12	91.2	172	0.08	7.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / <u>NO</u> (SampleType = <u>Grab</u> / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other											
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)		Pg of Pgs						
*StationID: 544SAC002			*Date (mm/dd/yyyy): 09 / 23 / 2015		*Group:		*Agency: USGS						
*Funding:			ArrivalTime:		DepartureTime:		*SampleTime (1st sample):						
*ProjectCode:			*Personnel: JO S MDP		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:						
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd) Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other						
GPS Device:			Target: 38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA						
Datum: NAD83			Accuracy (ft / m):		*Actual: 38,23645		-121.41918						
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / (N) / Unk		BEAUFORT SCALE (see attachment):						
SITE ODOR: (None, Sulfides, Sewage, Petroleum, Smoke, Other)					WIND DIRECTION (from):		DISTANCE FROM BANK (m): 15						
SKY CODE: (Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy)					WIND DIRECTION (from):		STREAM WIDTH (m): 35						
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					WIND DIRECTION (from):		WATER DEPTH (m): 3						
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)						
WATERCLARITY: (Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION: (None, Fog, Drizzle, Rain, Snow)		2: (RB / LB / BB / US / DS / ##)						
WATERODOR: (None, Sulfides, Sewage, Petroleum, Mixed, Other)					PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)		3: (RB / LB / BB / US / DS / ##)						
WATERCOLOR: (Colorless, Green, Yellow, Brown)					EVIDENCE OF FIRES: No, <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): (None, light, moderate / heavy, unknown)													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, (1-5cfs), 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	0.25	15.7	20.59	7.84	8.24	91.7	187	0.09	6.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													


SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 544LSAC13				*Date (mm/dd/yyyy): 09 / 23 / 2015				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1020		DepartureTime: 1100		*SampleTime (1st sample): 1045		*Protocol:			
*ProjectCode:				*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 37.975278		Long (ddd.ddddd): -121.376844		OCCUPATION METHOD: Walk-in Bridge R/V Other			
GPS Device:				Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		37.9745		-121.37632		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 3		STREAM WIDTH (m): 100	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):		Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /		WATER DEPTH (m): 2.1	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, Brown						OVERLAND RUNOFF (Last 24 hrs): None, light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	0.1	17.63	23.61	7.65	7.50	90.5	1414	0.71	12.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 541SJC501			*Date (mm/dd/yyyy): 09 / 23 / 2015			*Group:		*Agency: USGS					
*Funding: _____			ArrivalTime: 1200		DepartureTime: 1230		*SampleTime (1st sample): 1220		*Protocol:				
*ProjectCode:			*Personnel:			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:				
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge R/V _____ Other				
GPS Device:			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): (LB) RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		37.675346		-121.265245		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 40		
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Smoke, Other _____					WIND DIRECTION (from):				PHOTOGRAPH LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		WATER DEPTH (m): 0.7		
SKY CODE: (Clear) Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: (Vascular) Nonvascular, Oily Sheen, Foam, Trash, Other _____		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / (US / DS) / ##)				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other _____					WATERCLARITY: (Clear) (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: (None) Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)				
WATERODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other _____					PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)		EVIDENCE OF FIRES: (No) <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)				
WATERCOLOR: (Colorless) Green, Yellow, Brown					OVERLAND RUNOFF (Last 24 hrs): (none) light, moderate / heavy, unknown								
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, (50-200cfs), >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP		0.5	20.02	21.86	7.70	8.59	99.0	770	0.34	5.0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SOL010			*Date (mm/dd/yyyy): 09 / 23 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1350		DepartureTime: 1425		*SampleTime (1st sample): 1415		*Protocol:				
*ProjectCode:			*Personnel:			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 38.307006		Long (ddd.ddddd): -121.795122		OCCUPATION METHOD: (Walk-in) Bridge R/V Other				
GPS Device:			Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual: 38.307011		-121.794033		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 1		STREAM WIDTH (m): 2.5			
SITE ODOR: (None, Sulfides, Sewage, Petroleum, Smoke, Other)				WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		WATER DEPTH (m): 0.5			
SKY CODE: (Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy)				DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other		PRECIPITATION: (None, Fog, Drizzle, Rain, Snow)		2: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI /			
OTHER PRESENCE: (Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other)				WATERCLARITY: (Clear, (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)		3: (RB / LB / BB / US / DS / ##)					
WATERODOR: (None, Sulfides, Sewage, Petroleum, Mixed, Other)				WATERCOLOR: Colorless, Green, Yellow, Brown		EVIDENCE OF FIRES: (No, <1 year, <5 years)							
OVERLAND RUNOFF (Last 24 hrs): (none, light, moderate / heavy, unknown)				OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, (1-5cfs), 5-20cfs, 20-50cfs, 50-200cfs, >200cfs									
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.2	1.0	22.2	20.92	7.79	7.16	80.4	1053	0.52	16.3			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other											
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

October 2015


SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg 1 of 1 Pgs				
*StationID: 510SACC3A			*Date (mm/dd/yyyy): 10 / 21 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0750		DepartureTime: 0830		*SampleTime (1st sample): 0800		*Protocol:				
*ProjectCode:			*Personnel: GDB, MDP, SMS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 38.367967		Long (ddd.ddddd): -121.521343		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:				STARTING BANK (facing downstream): LB RB / NA						
Datum: NAD83		Accuracy (ft / m):		*Actual:				Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / (N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15		STREAM WIDTH (m): +5		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from): N		AerialZipline, Other		LOCATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other		WATER DEPTH (m): 1		
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy									PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, Other											2: (RB / LB / BB / US / DS / ##)		
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other											3: (RB / LB / BB / US / DS / ##)		
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION: None, Fog, Drizzle, Rain, Snow								
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", None								
WATERCOLOR: Colorless, Green, Yellow, Brown					EVIDENCE OF FIRES: No, <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	3.0	.25 est	14.63	18.89	7.28	8.48	93.0	160	.07	6.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg 1 of 1 Pgs	
*StationID: 541SJC501				*Date (mm/dd/yyyy): 10 / 21 / 2015				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1220		DepartureTime: 1305		*SampleTime (1st sample): 1240		*Protocol:			
*ProjectCode:				*Personnel:				*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:	
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge R/V Other			
GPS Device:				Target:		37.676041		-121.266329		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83				Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 8		STREAM WIDTH (m):	
SITE ODOR: None Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from): N				PHOTOGRAPH LOCATION: None, bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other LOCATION (to sample): US / DS / WI /		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode) 1: (RB / LB / BB / US / DS / ##) 2: (RB / LB / BB / US / DS / ##) 3: (RB / LB / BB / US / DS / ##)	
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other						DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		PRECIPITATION (last 24 hrs): Unknown, <1", >1" None		EVIDENCE OF FIRES: No <1 year, <5 years	
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		WATERCOLOR: Colorless, Green, Yellow, Brown		OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs	
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	.50	.50	16.80	18.70	7.45	7.51	80.7	453	0.22	12.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg 1 of 1 Pgs				
*StationID: 544SAC002			*Date (mm/dd/yyyy): 10 / 21 / 15			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0850		DepartureTime:		*SampleTime (1st sample): 0910		*Protocol:				
*ProjectCode:			*Personnel: GDB, MDP, SMS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 13		STREAM WIDTH (m):			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from): N				PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)			
SKY CODE: Clear Partly Cloudy, Overcast, Fog, Smoky, Hazy				DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)					
WATERCOLOR: Colorless, Green, Yellow, Brown				OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs							
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1.0	.10e	13.75	16.69	7.44	88.8	88.8	54	.02	4.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg 1 of 1 Pgs				
*StationID: 510SACC3A			*Date (mm/dd/yyyy): 10 / 21 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0750		DepartureTime: 0830		*SampleTime (1st sample): 0800		*Protocol:				
*ProjectCode:			*Personnel: GDB, MDP, SMS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 38.367967		Long (ddd.ddddd): -121.521343		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.367967		-121.521343		STARTING BANK (facing downstream): LB RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / (N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15		STREAM WIDTH (m): 15			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from): N				LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other					
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)					
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						EVIDENCE OF FIRES: No, <1 year, <5 years							
WATERCOLOR: Colorless, Green, Yellow, Brown						OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	3.0	25 est	14.63	18.89	7.28	8.48	93.0	160	.07	6.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other											
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg 1 of 1 Pgs				
*StationID: 510SOL010			*Date (mm/dd/yyyy): 10 / 21 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1450		DepartureTime: 1530		*SampleTime (1st sample): 1500		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg <u>Midchannel</u> OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: <u>Walk-in</u> Bridge R/V _____ Other				
GPS Device:			Target:		38.307006		-121.795122		STARTING BANK (facing downstream): <u>LB</u> / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: <u>Y</u> / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>13</u>		STREAM WIDTH (m):			
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from): <u>N</u>				AerialZipline, Other		WATER DEPTH (m): <u>50</u>			
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)					
DOMINANT SUBSTRATE: Bedrock, Concrete, <u>Cobble</u> , Boulder, Gravel, Sand, Mud, Unk, Other				WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>		EVIDENCE OF FIRES: <u>No</u> <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)					
WATERCOLOR: <u>Colorless</u> , Green, Yellow, <u>Brown</u>				OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, <u>1-5cfs</u> , 5-20cfs, 20-50cfs, 50-200cfs, >200cfs							
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	<u>.20</u>	<u>1.5</u>	<u>20.73</u>	<u>18.24</u>	<u>7.69</u>	<u>5.56</u>	<u>58.6</u>	<u>930</u>	<u>46</u>	<u>14.4</u>			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg 1 of 1 Pgs	
*StationID: 544LSAC13				*Date (mm/dd/yyyy): 10 / 21 / 2015				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1035		DepartureTime: 1110		*SampleTime (1st sample): 1050		*Protocol:			
*ProjectCode:				*Personnel:				*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:	
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other			
GPS Device:				Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 2		STREAM WIDTH (m):	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				PHOTOGRAPHIC LOCATION: None, bridge, pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other LOCATION (to sample): US / DS / WI / NA		WATER DEPTH (m): 2.5	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other X		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom) Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs):		Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, Brown						EVIDENCE OF FIRES: No, <1 year, <5 years							
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1.25	0.0	17.17	21.41	7.75	8.10	92.2	860	0.42	5.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

November 2015


SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year: <u>FY 14/15</u>	Date: <u>11-10-15</u>	Contact Person: <u>Jim Orlando</u>
Region: <u>RWQCB5</u>	Event Type: <u>storm</u>	Phone: <u>916-278-3271</u>
Project Code: _____	Protocol Code: _____	Email: <u>jorlando@usgs.gov</u>
Work Order: _____	Field Crew: <u>MD, TAB, SMS, TT</u>	Mailing Address: <u>6000 J St Sacramento CA 95819</u>
Agency Code: <u>RWQCB5</u>	Field Crew: _____	

Station Code	Sample Type Code	Location Code	Sample Date	Collection Time	Collection Depth wat (m)	Salinity (ppt)	Spec. Cond. (μS/cm)	Field Preservation	Water Toxicity 4 L Amber	
510SACC3A	GRAB	Midchannel	11-10-15	0900	1.5		178	Wet Ice	10	
544SAC002	GRAB	Midchannel	11-10-15	1000	1.5		52	Wet Ice	10	
544LSAC13	GRAB	Bank	11-10-15	1130	1.5		360	Wet Ice	10	
541SJC501	GRAB	Midchannel	11-10-15	1300	1.5		299	Wet Ice	10	
510SOL010	GRAB	Midchannel	11-10-15	1530	1		1034	Wet Ice	10	
TOTAL									0	0


Comments:
 Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by: <u>Matt De Paris</u> Name (Print and Sign)	Date & Time <u>11-10-15 16:35</u>	Samples Received by: <u>G. Merrill</u> Name (Print and Sign)

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 510SACC3A				*Date (mm/dd/yyyy): 2015/11/10				*Group: PFRG7		*Agency: USGS			
*Funding:				ArrivalTime: 0850		DepartureTime:		*SampleTime (1st sample): 0900		*Protocol:			
*ProjectCode:				*Personnel: PL, DP, TT, SS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 38.367967		Long (ddd.ddddd): -121.521343		OCCUPATION METHOD: Walk-in Bridge R/V <u>Duck</u> Other			
GPS Device:				Target:		38.367967		-121.521343		STARTING BANK (facing downstream): <u>LB</u> RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / <u>N</u> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 100	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				AERIAL Zipline, Other		WATER DEPTH (m): 1.5	
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)		2: (RB / LB / BB / US / DS / ##)	
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, <u>Sand</u> , Mud, Unk, Other						PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)			
WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)						EVIDENCE OF FIRES: No, <1 year, <5 years		OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown					
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other								OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs					
WATERCOLOR: Colorless, <u>Green</u> , Yellow, Brown													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1		10.94	13.44	7.05	9.23	88.5	178	0.08	5.9			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg 1 of 1 Pgs				
*StationID: 544SAC002			*Date (mm/dd/yyyy): 11 / 10 / 2015			*Group: PF CG		*Agency: USGS					
*Funding:			ArrivalTime: 0950		DepartureTime: 1035		*SampleTime (1st sample): 1000		*Protocol:				
*ProjectCode:			*Personnel: PB TT SS NO		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 38.23639		Long (ddd.ddddd): -121.419167		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / <input checked="" type="radio"/> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15		STREAM WIDTH (m): ~30			
SITE ODOR: <input checked="" type="radio"/> None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):				AERIAL ZIP LINE: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		WATER DEPTH (m): 1.5			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)		2: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other				WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: <input checked="" type="radio"/> None, Fog, Drizzle, Rain, Snow		3: (RB / LB / BB / US / DS / ##)		3: (RB / LB / BB / US / DS / ##)			
WATERODOR: <input checked="" type="radio"/> None, Sulfides, Sewage, Petroleum, Mixed, Other				WATERCOLOR: Colorless, Green, Yellow, Brown		EVIDENCE OF FIRES: No, <1 year, <5 years		OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs			
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1	~1	10.94	12.41	7.18	9.92	93.0	52	0.02	6.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / <input checked="" type="radio"/> NO (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: <input checked="" type="radio"/> Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered in d-base (initial/date)		Pg 1 of 1 Pgs					
*StationID: 544LSAC13			*Date (mm/dd/yyyy): 11 / 10 / 15			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1115		DepartureTime: 1145		*SampleTime (1st sample): 1130		*Protocol:				
*ProjectCode:			*Personnel: PB, TT, SS, MD		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:				
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.975278		Long (ddd.ddddd): -121.376844		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: <input checked="" type="checkbox"/> N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 3		STREAM WIDTH (m): 100			
SITE ODOR: <input checked="" type="checkbox"/> None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):				AERIAL ZIPLINE LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		WATER DEPTH (m): 1.5			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		2: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other Riprap				PRECIPITATION: <input checked="" type="checkbox"/> None, Fog, Drizzle, Rain, Snow		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)					
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				WATERODOR: <input checked="" type="checkbox"/> None, Sulfides, Sewage, Petroleum, Mixed, Other		WATERCOLOR: Colorless, Green, Yellow, Brown		OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown					
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1	~1	13.10	15.88	7.58	8.67	87.7	366	0.18	6.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket), Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg 1 of 1 Pgs				
*StationID: 541SJC501			*Date (mm/dd/yyyy): 11 / 10 / 2015			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1250		DepartureTime: 1320		*SampleTime (1st sample): 1300		*Protocol:				
*ProjectCode:			*Personnel: B. T. S. M.D.		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 6013 50		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				PHOTOGRAPH LOCATION: None, bridge, Piles, Concrete channel, Grade control, Culvert, Aerial Zipline, Other LOCATION (to sample): US / DS / WI / NA		WATER DEPTH (m): 1.5		
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):		1: (RB / LB / BB / US / DS / ##)				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)				
					WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)				
					WATERCOLOR: Colorless, Green, Yellow, Brown		EVIDENCE OF FIRES: No, <1 year, <5 years						
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1	2	11.22	13.40	7.26	8.27	79.2	299	0.11	7.2			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:	YSI 650												
Calib. Date:	11-10-15												
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES (NO) (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg 1 of 1 Pgs	
*StationID: 510SOL010				*Date (mm/dd/yyyy): 11 / 10 / 2015				*Group: 1530		*Agency: USGS			
*Funding: _____				ArrivalTime: 1820		DepartureTime: 1840		*SampleTime (1st sample): 1430		*Protocol:			
*ProjectCode:				*Personnel: RB, TJ, SS, AD		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 38.307006		Long (ddd.ddddd): -121.795122		OCCUPATION METHOD: Walk-in Bridge R/V _____ Other			
GPS Device:				Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 68		STREAM WIDTH (m): 12-15	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):		AERIAL ZIP LINE: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other rip rap						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, Brown + grayish						OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP		~5	14.66	13.82	8.05	10.21	99.0	1034	0.51	21.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab Integrated		COLLECTION DEVICE: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other											
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	0.3												
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

December 2015

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year: <u>FY 14/15</u>	Date: <u>12-15-15</u>	Contact Person: <u>Jim Orlando</u>
Region: <u>RWQCB5</u>	Event Type: <u>Regular</u>	Phone: <u>916-278-3271</u>
Project Code: _____	Protocol Code: _____	email: <u>jorlando@usgs.gov</u>
Work Order: _____	Field Crew: <u>Matt De Parsia, Sean Skunt</u>	Mailing Address: <u>6000 J St Sacramento CA 95819</u>
Agency Code: <u>RWQCB5</u>	Field Crew: <u>Tucker Thiesing</u>	

Station Code	Sample Type Code	Location Code	Sample Date	Collection Time	Collection Depth wat (m)	Salinity (ppt)	Spec. Cond. (µS/cm)	Field Preservation	Water Toxicity 4 L Amber	
510SACC3A	GRAB	Midchannel	12-15-15	1500	1		182	Wet Ice	20	
544SAC002	GRAB	Midchannel	12-15-15	1400	0.5		57	Wet Ice	10	
544LSAC13	GRAB	Bank	12-15-15	1220	2.2 0.3		592	Wet Ice	10	
541SJC501	GRAB	Midchannel	12-15-15	1100	0.3		476	Wet Ice	10	
510SOL010	GRAB	Midchannel	12-15-15	0850	0.3		805	Wet Ice	10	
TOTAL									0	0


Comments:

Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Duplicate tox samples collected at 510SACC3A

Samples Relinquished by: Name (Print and Sign) <u>Matt De Parsia</u>	Date & Time <u>12-15-15 16:25</u>	Samples Received by: <u>LINDA DEANOVIC</u> Name (Print and Sign) <u>Linda De</u>

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SOL010			*Date (mm/dd/yyyy): 12 / 15 / 15			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0840		DepartureTime: 0900		*SampleTime (1st sample): 0850		*Protocol:				
*ProjectCode:			*Personnel: MDP, SMS, TS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddd)ddd		Long (ddd.ddd)ddd		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 25			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):		Aerial Zipline, Other		LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, LOCATION (to sample): US / DS / WI /		WATER DEPTH (m): 0.5			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)					
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other				WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				PRECIPITATION (last 24 hrs): Unknown (<1", >1", None)		EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)					
WATERCOLOR: Colorless, Green, Yellow, Brown				OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs							
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.3	2	5.66	7.26	7.27	9.84	82.0	805		0.4			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered in d-base (initial/date)		Pg of Pgs					
*StationID: 541SJC501			*Date (mm/dd/yyyy): 12 / 15 / 15			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1045		DepartureTime: 1126		*SampleTime (1st sample): 1100		*Protocol:				
*ProjectCode:			*Personnel: MDP, SMS, T1		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:						
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:				STARTING BANK (facing downstream): LB / RB / NA						
Datum: NAD83			Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)				
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 12				
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				STREAM WIDTH (m): 70				
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOGRAPHIC LOCATION: None, bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other LOCATION (to sample): US / DS / WI /		WATER DEPTH (m): 2.1				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					PRECIPITATION: None, Fog, Drizzle, Rain, Snow		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)				
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION (last 24 hrs): Unknown, <1", >1", None				2: (RB / LB / BB / US / DS / ##)				
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other					EVIDENCE OF FIRES: No, <1 year, <5 years				3: (RB / LB / BB / US / DS / ##)				
WATER COLOR: Colorless, Green, Yellow, Brown					OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown								
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5 0.3		7.28	8.78	7.80	10.15	87.4	476		6.4			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 544LSAC13				*Date (mm/dd/yyyy): 12 / 15 / 15				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1200		DepartureTime: 1240		*SampleTime (1st sample): 1220		*Protocol:			
*ProjectCode:				*Personnel: AD, SMS, TT		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 37.975278		Long (ddd.ddddd): -121.376844		OCCUPATION METHOD: Walk-in Bridge R/V Other			
GPS Device:				Target:						STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83				Accuracy (ft / m):		*Actual:				Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: 81 N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 3		STREAM WIDTH (m): 120	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				PHOTOGRAPHIC LOCATION: None, bridge, Pipes, ConcreteChamber, GradeControl, Culvert, AerialZipline, Other LOCATION (to sample): US / DS / WI / NA			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy										PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)	
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other												2: (RB / LB / BB / US / DS / ##)	
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other rip rap												3: (RB / LB / BB / US / DS / ##)	
WATERCLARITY: Clear (see bottom), Cloudy (>4' vis), Murky (<4" vis)						PRECIPITATION: None, Fog, Drizzle, Rain, Snow							
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None							
WATERCOLOR: Colorless, Green, Yellow, Brown						EVIDENCE OF FIRES: No, <1 year, <5 years							
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.3		9.48	11.13	7.88	11.13	100.9	592		22.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 544SAC002				*Date (mm/dd/yyyy): 12 / 15 / 15				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1340		DepartureTime: 1420		*SampleTime (1st sample): 1400		*Protocol:			
*ProjectCode:				*Personnel: MDD, SMS, TT		*Purpose (circle applicable): WaterChem, WaterTox, Habitat, FieldMeas				*PurposeFailure:			
*Location: Bank, Thalweg, Midchannel, OpenWater				*GPS/DGPS		Lat (dd.ddddd): 38.23639		Long (ddd.ddddd): -121.419167		OCCUPATION METHOD: Walk-in, Bridge, R/V, Other			
GPS Device:				Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-				Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 12		STREAM WIDTH (m): 25	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other, Sulfur						WIND DIRECTION (from):				Aerial, Zipline, Other		WATER DEPTH (m): /	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI /	
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, Brown						OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		7.46	9.06	7.74	10.59	91.7	57		3.0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)		Pg of Pgs						
*StationID: 510SACC3A		*Date (mm/dd/yyyy): 12 / 15 / 15		*Group:		*Agency: USGS							
*Funding:		ArrivalTime: 1440		DepartureTime: 1530		*SampleTime (1st sample): 1500		*Protocol:					
*ProjectCode:		*Personnel: MDD, SMS, TT		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd) Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other							
GPS Device:		Target: 38.367967		-121.521343		STARTING BANK (facing downstream): LB / RB / NA							
Datum: NAD83		Accuracy (ft / m):		*Actual:		Point of Sample (if Integrated, then -88 in dbase)							
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15					
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		STREAM WIDTH (m): 100					
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				WIND DIRECTION (from):		AerialZipline, Other		WATER DEPTH (m): 10.2					
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other				WIND DIRECTION (from):		LOCATION (to sample): US / DS / WI /		1: (RB / LB / BB / US / DS / ##)					
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other				PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)							
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)							
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				EVIDENCE OF FIRES: No, <1 year, <5 years									
WATERCOLOR: Colorless, Green, Yellow, Brown				OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown									
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	/		8.28	10.51	7.52	10.04	90.1	182		9.8			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Kemmer; Pole & Beaker; Other								
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

January 2016

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year: <u>FY 14/15</u>	Date: <u>1-19-16</u>	Contact Person: <u>Jim Orlando</u>
Region: <u>RWQCB5</u>	Event Type: <u>storm</u>	Phone: _____
Project Code: _____	Protocol Code: _____	email: _____
Work Order: _____	Field Crew: <u>JD, JD, MD, SS</u>	Mailing Address: _____
Agency Code: <u>RWQCB5</u>	Field Crew: _____	

Station Code	Sample Type Code	Location Code	Sample Date	Collection Time	Collection Depth wat (m)	Salinity (ppt)	Spec. Cond. (µS/cm)	Field Preservation	Water Toxicity 4 L Amber
510SAC03A	GRAB	Midchannel	01/19/16	0830	0.5		142	Wet Ice	10
544SAC002		1		0945	0.5		53		10
544LSAC13		RT Bank		1050	0.2		409		10
541SAC501		Midchannel		1500 1230	0.5		449		10
510SOL010				1500	0.5		134		10
Field Dup					0.5		134	Wet Ice	10
TOTAL									0

Comments: _____
 Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by: Name (Print and Sign) <u>Matt De Parsia</u>	Date & Time <u>1-19-16</u> <u>16:30</u>	Samples Received by: <u>LINDA DEANOVIC</u> Name (Print and Sign) <u>Linda Dea</u>

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)		Pg of Pgs						
*StationID: 510SACC3A		*Date (mm/dd/yyyy): 01 / 19 / 16		*Group:		*Agency: USGS							
*Funding:		ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 0830		*Protocol:					
*ProjectCode:		*Personnel: JD, JO, MD, JS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other					
GPS Device:		Target:		38.367967		-121.521343		STARTING BANK (facing downstream): LB / RB / NA					
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y1(N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10					
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):		AerialZipline, Other		STREAM WIDTH (m):					
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		WATER DEPTH (m):					
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other				WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		LOCATION (to sample): US / DS / WI /					
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other				PRECIPITATION: None, Fog, Drizzle, Rain, Snow		1: (RB / LB / BB / US / DS / ##)							
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		2: (RB / LB / BB / US / DS / ##)							
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)							
WATERCOLOR: Colorless, Green, Yellow, Brown				OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown									
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.1	2	11.5	9.8	7.27	10.15		142		90.4			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs							
*StationID: 544SAC002			*Date (mm/dd/yyyy): 01 / 19 / 16			*Group:		*Agency: USGS								
*Funding:			ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 0945		*Protocol:							
*ProjectCode:			*Personnel: JB, Jo, MO, JS		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:								
*Location: Bank Thalweg <u>Midchannel</u> OpenWater			*GPS/DGPS		Lat (dd.dddddd)		Long (ddd.dddddd)		OCCUPATION METHOD: Walk-in Bridge R/V _____ Other							
GPS Device:			Target:		38.23639		-121.419167		STARTING BANK (facing downstream): <u>LB</u> / RB / NA							
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)								
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: <u>Y/N</u> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>10</u>		STREAM WIDTH (m):					
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				Aerial/Zipline, Other		LOCATION (to sample): US / DS / WI /					
SKY CODE: Clear, Partly Cloudy, <u>Overcast</u> , Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode):					1: (RB / LB / BB / US / DS / ##)				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)					PRECIPITATION: None, Fog, Drizzle, <u>Rain</u> , Snow					2: (RB / LB / BB / US / DS / ##)	
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1" <u>None</u>					EVIDENCE OF FIRES: No, <1 year, <5 years					3: (RB / LB / BB / US / DS / ##)	
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>					OVERLAND RUNOFF (Last 24 hrs): none, light, <u>moderate</u> / heavy, unknown					OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs						
Field Measurements (SampleType = FieldMeasure; Method = Field)																
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)						
SUBSURF/MID/BOTTOM/REP	<u>0.5</u>	<u>2</u>	<u>12.6</u>	<u>14.6</u>	<u>7.3</u>	<u>92.4</u>		<u>53</u>		<u>7.6</u>						
SUBSURF/MID/BOTTOM/REP																
SUBSURF/MID/BOTTOM/REP																
Instrument:																
Calib. Date:																
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)										
SAMPLE TYPE: <u>Grab</u> / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other												
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs			
Sub/Surface																
Sub/Surface																
COMMENTS: Mokelumne River at New Hope Road for Delta RMP																

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 544LSAC13			*Date (mm/dd/yyyy): 01/19/16			*Group:		*Agency: USGS					
*Funding:			ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 1050		*Protocol:				
*ProjectCode:			*Personnel: JD MGR SR JD			*Purpose (circle applicable): Water Chem Water Tox Habitat Field Meas		*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.dddddd)		Long (ddd.dddddd)		OCCUPATION METHOD: (Walk-in) Bridge R/V Other				
GPS Device:			Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 1.0		STREAM WIDTH (m): 100		
SITE ODOR: (None, Sulfides, Sewage, Petroleum, Smoke, Other)					WIND DIRECTION (from):				Aerial/Zipline, Other LOCATION: None, bridge, pipes, concrete channel, grade control, culvert, LOCATION (to sample): US / DS / WI /		WATER DEPTH (m):		
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: Vascular Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)				
DOMINANT SUBSTRATE: Bedrock Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)				
WATERODOR: (None, Sulfides, Sewage, Petroleum, Mixed, Other)					PRECIPITATION (last 24 hrs): Unknown (<1" >1", None)				3: (RB / LB / BB / US / DS / ##)				
WATERCOLOR: Colorless, Green, Yellow, Brown					EVIDENCE OF FIRES: No, <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate, heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.2	1	12.06	11.1	7.32	9.1		409		68.2			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SOL010			*Date (mm/dd/yyyy): 6 / 1 / 9 1 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1445		DepartureTime: 1535		*SampleTime (1st sample): 1500		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat <u>FieldMeas</u>			*PurposeFailure:					
*Location: Bank Thalweg <u>Midchannel</u> OpenWater			*GPS/DGPS		Lat (dd.ddddd):		Long (ddd.ddddd):		OCCUPATION METHOD: Walk-in Bridge R/V _____ Other				
GPS Device:			Target:		38.307006		-121.795122		STARTING BANK (facing downstream): <u>LB</u> / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>20</u>				
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____									STREAM WIDTH (m): <u>40</u>				
SKY CODE: Clear, <u>Partly Cloudy</u> , Overcast, Fog, Smoky, Hazy					WIND DIRECTION (from):				WATER DEPTH (m): <u>5</u>				
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____							Aerial/Zipline, Other _____		LOCATION (to sample): US / DS / WI /				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, <u>Unk</u> , Other _____							PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)				
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)					PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow				2: (RB / LB / BB / US / DS / ##)				
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____					PRECIPITATION (last 24 hrs): Unknown, <1", <u>>1"</u> None								
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>					EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years				3: (RB / LB / BB / US / DS / ##)				
OVERLAND RUNOFF (Last 24 hrs): none, light, <u>moderate</u> / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, <u><200cfs</u>													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	<u>0.5</u>	<u>3-4 fps</u>	<u>13.8</u>	<u>12.9</u>	<u>7.67</u>	<u>8.65</u>		<u>134</u>		<u>731.9</u>			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)		Pg of Pgs						
*StationID: 541SJC501		*Date (mm/dd/yyyy): 01 / 19 / 2016			*Group:		*Agency: USGS						
*Funding:		ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 1230		*Protocol:					
*ProjectCode:		*Personnel: JOHNS JED		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:							
*Location: Bank Thalweg <u>Midchannel</u> OpenWater		*GPS/DGPS	Lat (dd.ddddd)	Long (ddd.ddddd)	OCCUPATION METHOD: Walk-in <u>Bridge</u> RV _____ Other _____								
GPS Device:		Target:	37.676041	-121.266329	STARTING BANK (facing downstream): <u>LB</u> / RB / NA								
Datum: NAD83		Accuracy (ft / m):	*Actual:	37.676	Point of Sample (if Integrated, then -88 in dbase)								
Habitat Observations (CollectionMethod = Habitat_generic)			WADEABILITY: Y / N / Unk	BEAUFORT SCALE (see attachment):	DISTANCE FROM BANK (m): 30		STREAM WIDTH (m): 60						
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____			WIND DIRECTION (from):		AERIAL ZIPLINE LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		WATER DEPTH (m):						
SKY CODE: Clear, Partly Cloudy, <u>Overcast</u> , Fog, Smoky, Hazy			PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)								
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____			PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)								
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, <u>Sand</u> , Mud, Unk, Other _____			PRECIPITATION (last 24 hrs): Unknown, <u><1"</u> >1", None		3: (RB / LB / BB / US / DS / ##)								
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky (<4" vis)</u>			EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years										
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____			OVERLAND RUNOFF (Last 24 hrs): none, light, <u>moderate</u> / heavy, unknown										
WATER COLOR: Colorless, Green, Yellow, <u>Brown</u>			OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, <u>>200cfs</u>										
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	2	12.4	12.3	7.44	8.44		449		23.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

February 2016


SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD


Fiscal Year:	FY 14/15	Date:	07-17-16	Contact Person:	Jim Orlando
Region:	RWQCB5	Event Type:	Monthly	Phone:	
Project Code:		Protocol Code:		email:	
Work Order:		Field Crew:	10 MDP SS EW	Mailing Address:	
Agency Code:	RWQCB5	Field Crew:			


[illegible]

Comments:

Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test


Samples Relinquished by:		Samples Received by:	
Name (Print and Sign) James Orlando	Date & Time 02/17/16 3:11pm	Name (Print and Sign) Greg Merri	2/17/16 15:11
			

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 541SJC501			*Date (mm/dd/yyyy): 02 / 17 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1150		DepartureTime: 1220		*SampleTime (1st sample): 1200		*Protocol:				
*ProjectCode:			*Personnel: 20 MDP 33 EW			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:				
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in <u>Bridge</u> R/V _____ Other _____				
GPS Device:			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): <u>LB</u> / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / <u>N</u> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>35</u>		STREAM WIDTH (m): <u>100</u> 80			
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____				WIND DIRECTION (from):				PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)			
SKY CODE: Clear, Partly Cloudy, <u>Overcast</u> , Fog, Smoky, Hazy				DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, <u>Sand</u> , Mud, Unk, Other _____		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)		3: (RB / LB / BB / US / DS / ##)			
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____				PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>		EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years		OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, <u>>200cfs</u>					
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>				OVERLAND RUNOFF (Last 24 hrs): <u>None</u> , light, moderate / heavy, unknown									
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	<u>0.5</u>	<u>1</u>	<u>14.2</u>	<u>15.5</u>	<u>7.64</u>	<u>8.71</u>	<u>87.5</u>	<u>975</u>		<u>11.5</u>			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 544LSAC13			*Date (mm/dd/yyyy): / /		*Group:		*Agency: USGS						
*Funding:			ArrivalTime: 0950		DepartureTime: 1020		*SampleTime (1st sample): 1010		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:				
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83			Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)				
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 1m				
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				STREAM WIDTH (m): 200				
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode) 1: (RB / LB / BB / US / DS / ##)		WATER DEPTH (m): 1				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI /				
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)						
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other					EVIDENCE OF FIRES: No, <1 year, <5 years								
WATERCOLOR: Colorless, Green, Yellow, Brown					OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown								
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.2		14.7	13.4	7.3	7.2	69.1	606	30	10.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SACC3A			*Date (mm/dd/yyyy): 02 / 17 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 745		DepartureTime: 0815		*SampleTime (1st sample): 0800		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel <u>OpenWater</u>			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V <u>Cahoon</u> Other				
GPS Device:			Target:		38.367967		-121.521343		STARTING BANK (facing downstream): <u>LB</u> RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / <u>N</u> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>10</u>				
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				STREAM WIDTH (m): <u>100</u>				
SKY CODE: Clear, Partly Cloudy, <u>Overcast</u> , Fog, Smoky, Hazy					WIND DIRECTION (from):		AerialZipline, Other		WATER DEPTH (m):				
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					DOMINANT SUBSTRATE: Bedrock, Concrete, <u>Cobble</u> , Boulder, Gravel, Sand, Mud, Unk, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)				
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)					PRECIPITATION: None, Fog, <u>Drizzle</u> , Rain, Snow					2: (RB / LB / BB / US / DS / ##)			
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>					3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>					EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, <u>>200cfs</u>													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (uS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	<u>0.5</u>	<u>1.0</u>	<u>15.6</u>	<u>13.4</u>	<u>7.5</u>	<u>9.58</u>		<u>190</u>		<u>14.1</u>			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 544SAC002			*Date (mm/dd/yyyy): 02 / 17 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0845		DepartureTime: 0915		*SampleTime (1st sample): 0900		*Protocol:				
*ProjectCode:			*Personnel: JO MDPSS EW		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 25		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):		Aerial Zipline, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					PRECIPITATION: None, Fog, Drizzle, Rain, Snow						2: (RB / LB / BB / US / DS / ##)		
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", None						3: (RB / LB / BB / US / DS / ##)		
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					EVIDENCE OF FIRES: No, <1 year, <5 years								
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)					OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown								
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other					OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs								
WATER COLOR: Colorless, Green, Yellow, Brown													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	1.0	15.5	14.0	7.6	9.3	89.9	59	.03	7.4			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SOL010			*Date (mm/dd/yyyy): 02 / 17 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1400		DepartureTime: 1430		*SampleTime (1st sample): 1410		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / (N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15				
SITE ODOR: (None, Sulfides, Sewage, Petroleum, Smoke, Other)					WIND DIRECTION (from):				STREAM WIDTH (m): 35				
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		WATER DEPTH (m): 1				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other					PRECIPITATION: (None, Fog, Drizzle, Rain, Snow)		PRECIPITATION (last 24 hrs): Unknown, <1", >1", (None)		1: (RB / LB / BB / US / DS / ##)				
WATERCLARITY: (Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis))					PRECIPITATION (last 24 hrs):		Unknown, <1", >1", (None)		2: (RB / LB / BB / US / DS / ##)				
WATERODOR: (None, Sulfides, Sewage, Petroleum, Mixed, Other)					EVIDENCE OF FIRES: (No, <1 year, <5 years)				3: (RB / LB / BB / US / DS / ##)				
WATERCOLOR: (Colorless, Green, Yellow, Brown)					OVERLAND RUNOFF (Last 24 hrs): (none, light, moderate / heavy, unknown)								
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	1	17.8	16.6	8.2	11.0	113.6	1118		7.2			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

March 2016

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD


Fiscal Year:	FY 14/15	Date:	03/07/16	Contact Person:	Jim Orlando
Region:	RWQCB5	EventType:	storm	Phone:	916-278-3271
ProjectCode:		ProtocolCode:		email:	jorlando@usgs.gov
Work Order:		Field Crew:	JO, MD, NG	Mailing Address:	6000 J St Sacramento CA 95819
AgencyCode:	RWQCB5	Field Crew:			


[illegible]

Comments:

Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by: Name (Print and Sign) <i>Math De Passio</i>	Date & Time <i>03/07/16 15:32</i>	Samples Received by: Name (Print and Sign) <i>Mark Stillman</i>
		<i>030716</i>
		<i>1532</i>

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 544LSAC13			*Date (mm/dd/yyyy): 03 / 07 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1000		DepartureTime: 1030		*SampleTime (1st sample): 1015		*Protocol:				
*ProjectCode:			*Personnel:		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: (Bank) Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / (RB) / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 3		STREAM WIDTH (m): 100		
SITE ODOR: (None) Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				PHOTOGRAPHIC LOCATION: None, Bridge, Pipes, Concrete channel, Grade control, Culvert, Aerial/Zipline, Other LOCATION (to sample): US / DS / WI / NA				
SKY CODE: Clear, Partly Cloudy, (Overcast), Fog, Smoky, Hazy					OTHER PRESENCE: (Vascular) Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)				
DOMINANT SUBSTRATE: Bedrock, Concrete, (Cobble), Boulder, Gravel, Sand, Mud, Unk, Other					WATERCLARITY: (Clear) (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, (Drizzle), Rain, Snow		2: (RB / LB / BB / US / DS / ##)				
WATERODOR: (None) Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", (>1") None		EVIDENCE OF FIRES: (No) <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)				
WATERCOLOR: (Colorless) Green, Yellow, (Brown)					OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown								
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, (>200cfs)													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.2	0.1	12.5	15.7	7.49	8.65	87.5	672	0.33	-5.1			
SUBSURF/MID/BOTTOM/REP										OFF scale			
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SACC3A			*Date (mm/dd/yyyy): 03 / 07 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1400		DepartureTime: 1440		*SampleTime (1st sample): 1420		*Protocol:				
*ProjectCode:			*Personnel: Jo MDP N.ck			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:				
*Location: Bank Thalweg Midchannel <u>OpenWater</u>			*GPS/DGPS		Lat (dd.ddddd): 38.367967		Long (ddd.ddddd): -121.521343		OCCUPATION METHOD: Walk-in Bridge R/V _____ Other				
GPS Device:			Target:		38.367967		-121.521343		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10				
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____					WIND DIRECTION (from):				STREAM WIDTH (m): 100				
SKY CODE: Clear, Partly Cloudy, <u>Overcast</u> , Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		WATER DEPTH (m):				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, <u>Sand</u> , Mud, Unk, Other _____					PRECIPITATION: None, Fog, <u>Drizzle</u> , Rain, Snow		1: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI / NA				
WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)					PRECIPITATION (last 24 hrs): Unknown, <1", <u><1"</u> , None		2: (RB / LB / BB / US / DS / ##)						
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____					EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)						
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>					OVERLAND RUNOFF (Last 24 hrs): none, light, <u>moderate</u> / heavy, unknown								
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, <u>>200cfs</u>													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1.0	2.0	12.4	13.0	7.3	9.2	87.1	140	0.07	76.5			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (<u>by hand</u> , by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____								
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 541SJC501			*Date (mm/dd/yyyy): 03 / 07 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1130		DepartureTime: 1210		*SampleTime (1st sample): 1150		*Protocol:				
*ProjectCode:			*Personnel: 50 MDP N. J. R.		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 50		STREAM WIDTH (m): 100			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):		N W E		AERIAL ZIPLINE LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		LOCATION (to sample): US / DS / WI /			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)					
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)							
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)							
WATERCOLOR: Colorless, Green, Yellow, Brown				EVIDENCE OF FIRES: No, <1 year, <5 years									
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	1.0	11.9	16.0	7.68	7.97	80.9	751	0.37	4.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 544SAC002				*Date (mm/dd/yyyy): 03 / 07 / 2016				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1315		DepartureTime: 1345		*SampleTime (1st sample): 1330		*Protocol:			
*ProjectCode:				*Personnel: SO MOP Muck				*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 38.23639		Long (ddd.ddddd): -121.419167		OCCUPATION METHOD: Walk-in Bridge RV Other			
GPS Device:				Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y (N) / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10		STREAM WIDTH (m): 30	
SITE ODOR: (None, Sulfides, Sewage, Petroleum, Smoke, Other)						WIND DIRECTION (from):				PHOTOGRAPH LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other LOCATION (to sample): US / DS / WI / NA		WATER DEPTH (m): 2	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		2: (RB / LB / BB / US / DS / ##)	
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						PRECIPITATION: None, Fog, Drizzle, Rain, Snow		PRECIPITATION (last 24 hrs): Unknown, <1", >1"		3: (RB / LB / BB / US / DS / ##)			
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		WATERCOLOR: Colorless, Green, Yellow, Brown		EVIDENCE OF FIRES: No, <1 year, <5 years			
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	1.0	0.0	12.52	13.61	7.64	4.3	89.4	55	.02	-2.2 out of cal			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													


SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 510SOL010			*Date (mm/dd/yyyy): 03 / 07 / 2016			*Group:		*Agency: USGS					
*Funding:			ArrivalTime:		DepartureTime:		*SampleTime (1st sample): 0830		*Protocol:				
*ProjectCode:			*Personnel: 30 MDP N.W.		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15		STREAM WIDTH (m): 30		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):		Aerial Zipline, Other		LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, LOCATION (to sample): US / DS / WI /				
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy					PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)						
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other					DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other		2: (RB / LB / BB / US / DS / ##)						
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)					PRECIPITATION: None, Fog, Drizzle, Rain, Snow		3: (RB / LB / BB / US / DS / ##)						
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other					PRECIPITATION (last 24 hrs): Unknown, <1", >1", None								
WATER COLOR: Colorless, Green, Yellow, Brown					EVIDENCE OF FIRES: No, <1 year, <5 years								
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	2.5	12.2	12.1	7.25	9.5	88.4	208	.10	158			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP													

April 2016

150113	NO. OF CTNS.	1	SHIP DATE	4/11/16
150122 20160411	821-050			
3744198				

SEE REVERSE SIDE FOR FIELD DESCRIPTIONS

4/18/2016 4:00 PM

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered in d-base (initial/date)		Pg of Pgs					
*StationID: 541SJC501			*Date (mm/dd/yyyy): 04 / 19 / 16			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1230		DepartureTime: 1330		*SampleTime (1st sample): 1245		*Protocol:				
*ProjectCode:			*Personnel: MDD, SWS, AW			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge RV Other				
GPS Device:			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83			Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)				
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 20			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				STREAM WIDTH (m): 60 WATER DEPTH (m): 2 LOCATION (to sample): US / DS / WI /			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##) 2: (RB / LB / BB / US / DS / ##) 3: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs):		Unknown, <1", >1", None					
WATERCOLOR: Colorless, Green, Yellow, Brown						EVIDENCE OF FIRES: No, <1 year, <5 years							
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		18.28	17.43	7.92	10.11		382		17.9			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)		Pg of Pgs						
*StationID: 511ULCABR		*Date (mm/dd/yyyy): 04/19/16		*Group:		*Agency: USGS							
*Funding:		ArrivalTime: 1500		DepartureTime: 1530		*SampleTime (1st sample): 1510		*Protocol:					
*ProjectCode:		*Personnel:		*Purpose (circle applicable): WaterChem, WaterTox, Habitat, FieldMeas		*PurposeFailure:							
*Location: Bank, Thalweg, Midchannel, OpenWater		*GPS/DGPS		Lat (dd.ddddd): 38.307006		Long (ddd.ddddd): -121.795122		OCCUPATION METHOD: <u>Walk-in</u> Bridge R/V _____ Other _____					
GPS Device:		Target:		38.307006		-121.795122		STARTING BANK (facing downstream): <u>LB</u> / RB / NA					
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: <u>Y</u> N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): <u>8</u>					
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____				WIND DIRECTION (from):		Aerial Zipline, Other _____		STREAM WIDTH (m): <u>20</u>					
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		WATER DEPTH (m): <u>0.5</u>					
DOMINANT SUBSTRATE: Bedrock, <u>Concrete</u> , Cobble, Boulder, Gravel, Sand, Mud, Unk, Other _____				PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		1: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI /					
WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)				PRECIPITATION (last 24 hrs): <u>None</u> , <1", >1" <u>None</u>		2: (RB / LB / BB / US / DS / ##)							
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____				EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)							
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>				OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown									
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, <u>5-20cfs</u> , 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	<u>0.25</u>	<u>2</u>	<u>26.11</u>	<u>23.26</u>	<u>8.81</u>	<u>22.49</u>		<u>819</u>		<u>2.4</u>			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES/NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: <u>Grab</u> / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other _____								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatis Creek at Browns Road for Delta RMP <u>Broke 2 4 liter bottles, used 3 1 liter spurs</u>													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 510SACC3A				*Date (mm/dd/yyyy): 04/19/16				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 0800		DepartureTime: 0840		*SampleTime (1st sample): 0820		*Protocol:			
*ProjectCode:				*Personnel: MDD, SMS, AW				*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:	
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd):		Long (ddd.ddddd):		OCCUPATION METHOD: Walk-in Bridge R/V <u>cultural</u> Other			
GPS Device:				Target:		38.367967		-121.521343		STARTING BANK (facing downstream): <u>LB</u> / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / <u>N</u> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 6		STREAM WIDTH (m): 100	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				LOCATION (to sample): US / DS / WI /		WATER DEPTH (m): 1.5	
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: <u>Clear</u> (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)		PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs):		Unknown, <1", >1", <u>None</u>		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, <u>Green</u> , Yellow, Brown						EVIDENCE OF FIRES: <u>No</u> , <1 year, <5 years							
OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		15.67	16.82	6.79	9.22		127		1.0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:		Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other									
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)		Pg of Pgs						
*StationID: 544LSAC13		*Date (mm/dd/yyyy): 04 / 19 / 16		*Group:		*Agency: USGS							
*Funding:		ArrivalTime: 1030		DepartureTime: 1100		*SampleTime (1st sample): 1040		*Protocol:					
*ProjectCode:		*Personnel: MD, SMS, AW		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:							
*Location: Bank Thalweg Midchannel OpenWater		*GPS/DGPS		Lat (dd.ddddd) Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other							
GPS Device:		Target: 37.975278		-121.376844		STARTING BANK (facing downstream): LB RB NA RA							
Datum: NAD83		Accuracy (ft / m):		*Actual:		Point of Sample (if Integrated, then -88 in dbase)							
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 5		STREAM WIDTH (m): 100					
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		WATER DEPTH (m):					
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				WIND DIRECTION (from):		LOCATION (to sample): US / DS / WI /							
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other				WIND DIRECTION (from):		1: (RB / LB / BB / US / DS / ##)							
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other				PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)							
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)				PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)							
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other				EVIDENCE OF FIRES: No, <1 year, <5 years									
WATERCOLOR: Colorless, Green, Yellow, Brown				OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown									
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5	+0.5	19.20	20.56	7.51	9.38	105.2	878		0.1			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

May 2016

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year:	FY 14/15	Date:	05/18/16	Contact Person:	Jim Orlando
Region:	RWQCB5	EventType:	Routine	Phone:	916-278-3271
ProjectCode:		ProtocolCode:		email:	jorlando@usgs.gov
Work Order:		Field Crew:	Matt De Parsia, Sean Steward	Mailing Address:	6000 J St Sacramento CA 95819
AgencyCode:	RWQCB5	Field Crew:	Alfred, Ward		

[illegible]


Comments:

Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by: <u>Matt De Paris</u> Name (Print and Sign) <u>in n u</u>	Date & Time <u>051816 1520</u>	Samples Received by: <u>[Signature]</u> Name (Print and Sign) <u>Fred Merrill 517616</u>

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ							Entered in d-base (initial/date)		Pg of Pgs				
*StationID: 544LSAC13			*Date (mm/dd/yyyy): 05 / 18 / 16			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1030		DepartureTime: 1100		*SampleTime (1st sample): 10:45		*Protocol:				
*ProjectCode:			*Personnel: MDP, SMS, AW		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas			*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd)		Long (ddd.ddddd)		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.975278		-121.376844		STARTING BANK (facing downstream): LB / (RB) / NA				
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)				WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 2		STREAM WIDTH (m): 100			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other				WIND DIRECTION (from):		N W E S		AERIAL Zipline, Other		WATER DEPTH (m): 1.5			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy				OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI /			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						PRECIPITATION: None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)					
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		3: (RB / LB / BB / US / DS / ##)					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						EVIDENCE OF FIRES: No, <1 year, <5 years							
WATERCOLOR: Colorless, Green, Yellow, Brown													
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		22.97	21.00	7.54	8.66	97.2	276		6.6			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Buckley Cove for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 544SAC002				*Date (mm/dd/yyyy): 05 / 18 / 16				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 0915		DepartureTime: 0945		*SampleTime (1st sample): 0930		*Protocol:			
*ProjectCode:				*Personnel: MDD, SMS, AW		*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas				*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd):		Long (ddd.ddddd):		OCCUPATION METHOD: Walk-in Bridge R/V Other			
GPS Device:				Target:		38.23639		-121.419167		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)					
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / <input checked="" type="radio"/> / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 610		STREAM WIDTH (m): 20	
SITE ODOR: <input checked="" type="radio"/> None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):				AERIAL ZIPLINE LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other		WATER DEPTH (m): 1.5	
SKY CODE: <input checked="" type="radio"/> Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: <input checked="" type="radio"/> None, Fog, Drizzle, Rain, Snow		2: (RB / LB / BB / US / DS / ##)			
WATERODOR: <input checked="" type="radio"/> None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", <input checked="" type="radio"/> None		EVIDENCE OF FIRES: <input checked="" type="radio"/> No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)			
WATERCOLOR: Colorless, Green, Yellow, Brown						OVERLAND RUNOFF (Last 24 hrs): <input checked="" type="radio"/> none, light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		20.03	18.95	7.43	8.30	89.4	52		0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Mokelumne River at New Hope Road for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered in d-base (initial/date)		Pg of Pgs					
*StationID: 510SACC3A			*Date (mm/dd/yyyy): 05/18/16			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 0815		DepartureTime: 0845		*SampleTime (1st sample): 0830		*Protocol:				
*ProjectCode:			*Personnel: MDD, SMS, BW			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:					
*Location: Bank Thalweg Midchannel OpenWater			*GPS/DGPS		Lat (dd.ddddd): 38.367967		Long (ddd.ddddd): -121.521343		OCCUPATION METHOD: Walk-in Bridge R/V <u>CA 72-14</u> Other				
GPS Device:			Target:		38.367967		-121.521343		STARTING BANK (facing downstream): (LB) / RB / NA				
Datum: NAD83			Accuracy (ft/m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)				
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 10				
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other					WIND DIRECTION (from):				STREAM WIDTH (m): 100				
SKY CODE: <u>Clear</u> , Partly Cloudy, Overcast, Fog, Smoky, Hazy					OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOGRAPH LOCATION: <u>None</u> , Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other LOCATION (to sample): US / DS / WI / NA		WATER DEPTH (m): 2				
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, <u>Sand</u> , Mud, Unk, Other					PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)				
WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)					PRECIPITATION (last 24 hrs): Unknown, <1", >1" <u>None</u>				2: (RB / LB / BB / US / DS / ##)				
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other					EVIDENCE OF FIRES: <u>No</u> <1 year, <5 years				3: (RB / LB / BB / US / DS / ##)				
WATERCOLOR: Colorless, Green, Yellow, <u>Brown</u>													
OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		16.28	19.15	7.17	8.59	92.9	108		0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)								
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other								
	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Sacramento River at Hood for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ						Entered in d-base (initial/date)		Pg of Pgs					
*StationID: 541SJC501			*Date (mm/dd/yyyy): 05 / 18 / 11			*Group:		*Agency: USGS					
*Funding:			ArrivalTime: 1210		DepartureTime: 1240		*SampleTime (1st sample): 1220		*Protocol:				
*ProjectCode:			*Personnel: MDD, SMS, JW			*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:					
*Location: Back Thalweg (Midchannel OpenWater)			*GPS/DGPS		Lat (dd.ddddd): 37.676041		Long (ddd.ddddd): -121.266329		OCCUPATION METHOD: Walk-in Bridge R/V Other				
GPS Device:			Target:		37.676041		-121.266329		STARTING BANK (facing downstream): LB / RB / NA				
Datum: NAD83			Accuracy (ft / m):		*Actual:		-		Point of Sample (if Integrated, then -88 in dbase)				
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 15		STREAM WIDTH (m): 40			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other						WIND DIRECTION (from):		Aerial Zipline, Other		WATER DEPTH (m): 2			
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		LOCATION (to sample): US / DS / WI /			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other						PRECIPITATION: None, Fog, Drizzle, Rain, Snow		1: (RB / LB / BB / US / DS / ##)					
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						PRECIPITATION (last 24 hrs): Unknown, <1", >1" (None)		2: (RB / LB / BB / US / DS / ##)					
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						EVIDENCE OF FIRES: No, <1 year, <5 years		3: (RB / LB / BB / US / DS / ##)					
WATERCOLOR: Colorless, Green, Yellow, Brown						OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown							
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		22.16	19.38	8.40	11.98	130.3	322		1.7			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated			COLLECTION DEVICE:			Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP													

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ										Entered in d-base (initial/date)		Pg of Pgs	
*StationID: 511ULCABR				*Date (mm/dd/yyyy): 05/18/16				*Group:		*Agency: USGS			
*Funding:				ArrivalTime: 1400		DepartureTime: 1440		*SampleTime (1st sample): 1420		*Protocol:			
*ProjectCode:				*Personnel:				*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:			
*Location: Bank Thalweg Midchannel OpenWater				*GPS/DGPS		Lat (dd.ddddd): 38.307006		Long (ddd.ddddd): -121.795122		OCCUPATION METHOD: Walk-In Bridge RV Other			
GPS Device:				Target:		38.307006		-121.795122		STARTING BANK (facing downstream): LB / RB / NA			
Datum: NAD83		Accuracy (ft / m):		*Actual:		-				Point of Sample (if Integrated, then -88 in dbase)			
Habitat Observations (CollectionMethod = Habitat_generic)						WADEABILITY: Y / N / Unk		BEAUFORT SCALE (see attachment):		DISTANCE FROM BANK (m): 8		STREAM WIDTH (m): 15	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other										BANK (m):		WATER DEPTH (m): 1.5	
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy						WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)		1: (RB / LB / BB / US / DS / ##)		LOCATION (to sample): US / DS / WI /	
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other										2: (RB / LB / BB / US / DS / ##)			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other										3: (RB / LB / BB / US / DS / ##)			
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)						PRECIPITATION: None, Fog, Drizzle, Rain, Snow							
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other						PRECIPITATION (last 24 hrs): Unknown, <1", >1", None							
WATER COLOR: Colorless, Green, Yellow, Brown						EVIDENCE OF FIRES: No, <1 year, <5 years							
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown													
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs													
Field Measurements (SampleType = FieldMeasure; Method = Field)													
	DepthCollec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.2		30.58	24.43	8.08	8.99	107.9	811		2			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													
Samples Taken (# of containers filled) - Method=Water_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other							
	DepthCollec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													
COMMENTS: Ulatris Creek at Browns Road for Delta RMP													

June 2016

SWAMP REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY (COC) RECORD

Fiscal Year: FY 14/15

Region: RWQCB5

ProjectCode:

Work Order:

AgencyCode: RWQCB5

Date: 06/5/6

EventType: Regular

ProtocolCode:

Field Crew: Matt Dz Parsian, Sean Stunt

Field Crew: Michael Gross

Contact Person: Jim Orlando

Phone: 916-278-3271

email: jorlando@usqs.gov

Mailing Address: 6000 J St Sacramento CA 95819

[illegible]

Comments:

Comments:
Ceriodaphnia 3-Brood Test, 7-Day Fathead Minnow Test and 96-hour Selenastrum Test

Samples Relinquished by:

Name (Print and Sign)

Matt De Parsik

Date & Time

061516 @ 1600

Samples Received by: LINDA DEONOVIC
Name (Print and Sign) Linda Deonovic

Name (Print and Sign)

LINDA DEONOVIC
Linda Deonovic

6/14/2016 3:05 PM

ATL

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ

*StationID: 544LSAC13

*Funding: _____

*Date (mm/dd/yyyy): 06 15 2016

Entered in d-base (initial/date)

*ProjectCode: _____

ArrivalTime: 1040

DepartureTime: 1100

*Group: P-R-6

Pg of Pgs

*Location: Bank Thalweg Midchannel OpenWater

*Personnel: MDD, SMS, M56

*SampleTime (1st sample): 1050

*Agency: USGS

GPS Device: _____

*GPS/DGPS

Lat (dd.ddddd)

Long (ddd.ddddd)

OCCUPATION METHOD: Walk-in Bridge RV _____ Other

Datum: NAD83

Accuracy (ft / m): _____

Target: _____

37.975278

-121.376844

*Actual: _____

STARTING BANK (facing downstream): LB / RB / NA

Habitat Observations (CollectionMethod = Habitat_generic)

SITE ODOR: _____

None, Sulfides, Sewage, Petroleum, Smoke, Other

WADEABILITY: Y N / Unk

BEAUFORT SCALE (see attachment):

DISTANCE FROM BANK (m): 0

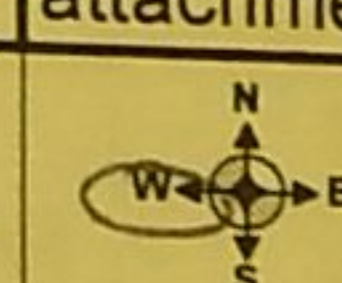
STREAM WIDTH (m):

WATER DEPTH (m):

SKY CODE: _____

Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy

WIND DIRECTION (from):



PHOTOGRAPH LOCATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Aerial Zipline, Other

OTHER PRESENCE: _____

Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other

DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other

PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)

WATERCLARITY: _____

Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)

PRECIPITATION: _____

None, Fog, Drizzle, Rain, Snow

2: (RB / LB / BB / US / DS / ##)

WATERODOR: _____

None, Sulfides, Sewage, Petroleum, Mixed, Other

PRECIPITATION (last 24 hrs):

Unknown, <1", >1", None

WATERCOLOR: _____

Colorless, Green, Yellow, Brown

EVIDENCE OF FIRES: _____

No, <1 year, <5 years

3: (RB / LB / BB / US / DS / ##)

OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown

OBSERVED FLOW: _____

NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs

Field Measurements (SampleType = FieldMeasure; Method = Field)

	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)		
SUBSURF/MID/BOTTOM/REP	0.25 0.5		17.02	23.65	7.33	7.84	92.4	624	0.30	4.8		
SUBSURF/MID/BOTTOM/REP												
SUBSURF/MID/BOTTOM/REP												
Instrument:												
Calib. Date:												

Samples Taken (# of containers filled) - Method=Water_Grab

Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)

SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:					Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other				
Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity
Sub/Surface											
Sub/Surface											

COMMENTS: San Joaquin River at Buckley Cove for Delta RMP

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ

*StationID: 544LSAC13

*Funding: _____

*ProjectCode: _____

*Location: Bank Thalweg Midchannel OpenWater

GPS Device: _____

Datum: NAD83

Accuracy (ft / m): _____

*Date (mm/dd/yyyy): 06 15 2016

ArrivalTime: 1040

DepartureTime: 1100

*Personnel: MDD, SMS, M56

*GPS/DGPS

Lat (dd.ddddd)

Long (ddd.ddddd)

Target:

37.975278

-121.376844

*Actual:

-

Entered in d-base (initial/date)

*Group: PRK 6

*SampleTime (1st sample): 1050

*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas

OCCUPATION METHOD: Walk-in Bridge RV _____ Other

STARTING BANK (facing downstream): LB / RB / NA

Point of Sample (if Integrated, then -88 in dbase)

DISTANCE FROM

BANK (m): 0

STREAM WIDTH (m):

WATER DEPTH (m):

PHOTOS (RB & LB assigned when facing 1: (RB / LB / BB / US / DS / ##)

downstream; RENAME to

StationCode_yyyy_mm_dd_uniquecode)

2: (RB / LB / BB / US / DS / ##)

3: (RB / LB / BB / US / DS / ##)

EVIDENCE OF FIRES: No, <1 year, <5 years

PRECIPITATION: None, Fog, Drizzle, Rain, Snow

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

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PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

Habitat Observations (CollectionMethod = Habitat_generic)

SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other

SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy

OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other

DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other

WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)

WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other

WATERCOLOR: Colorless, Green, Yellow, Brown

OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown

OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs

Field Measurements (SampleType = FieldMeasure; Method = Field)

	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.25 0.5		17.02	23.65	7.33	7.84	92.4	624	0.30	4.8			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													

Samples Taken (# of containers filled) - Method=Water_Grab

SAMPLE TYPE: Grab / Integrated	COLLECTION DEVICE:	Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmer; Pole & Beaker; Other	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC					
Sub/Surface										

COMMENTS: San Joaquin River at Buckley Cove for Delta RMP

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ

*StationID: 544SAC002	*Date (mm/dd/yyyy): 06 / 15 / 2016	Entered in d-base (initial/date)	Pg of Pgs
*Funding:	ArrivalTime: 0905	DepartureTime: 0930	*Group: PFR 6
*ProjectCode:	*Personnel: MOD, SMS, MSG	*SampleTime (1st sample): 0915	*Agency: USGS
*Location: Bank Thalweg Midchannel OpenWater	*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas	*Protocol:	
GPS Device:	*GPS/DGPS	Lat (dd.ddddd): 38.23639	Long (ddd.ddddd): -121.419167
Datum: NAD83	Accuracy (ft / m):	*Target:	OCCUPATION METHOD: Walk-in Bridge R/V Other
		*Actual:	STARTING BANK (facing downstream): LB / RB / NA
			Point of Sample (if Integrated, then -88 in dbase)

Habitat Observations (CollectionMethod = Habitat_generic)

SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other	WADEABILITY: Y / N / Unk	BEAUFORT SCALE (see attachment):	DISTANCE FROM BANK (m): 10	STREAM WIDTH (m): 20
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy	WIND DIRECTION (from):	PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)	WATER DEPTH (m):	
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other			LOCATION (to sample): US / DS / WI /	
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other			1: (RB / LB / BB / US / DS / ##)	
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	PRECIPITATION: None, Fog, Drizzle, Rain, Snow	2: (RB / LB / BB / US / DS / ##)		
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	3: (RB / LB / BB / US / DS / ##)		
WATERCOLOR: Colorless, Green, Yellow, Brown	EVIDENCE OF FIRES: No, <1 year, <5 years			

OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown

OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs

Field Measurements (SampleType = FieldMeasure; Method = Field)

	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	0.5		14.47	18.21	7.16	8.40	89.1	53	0.02	0			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													

Samples Taken (# of containers filled) - Method=Water_Grab

COLLECTION DEVICE:				Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)									
SAMPLE TYPE: Grab / Integrated	Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface													
Sub/Surface													

COMMENTS: Mokelumne River at New Hope Road for Delta RMP

Modified 02/10/11

02/10/11

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ

*StationID: 510SACC3A	*Date (mm/dd/yyyy): 06 / 15 / 2016	Entered in d-base (initial/date)	Pg of Pgs
*Funding: _____	ArrivalTime: 0750	*Group: PERG	*Agency: USGS
*ProjectCode: _____	DepartureTime: 0830	*SampleTime (1st sample): 0810	*Protocol: _____
*Location: Bank Thalweg Midchannel OpenWater	*Personnel: MDD, SMS, MSG	*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas	*PurposeFailure: _____
GPS Device: _____	*GPS/DGPS	Lat (dd.ddddd) 38.367967	Long (ddd.ddddd) -121.521343
Datum: NAD83	Accuracy (ft / m): _____	Target: _____	*Actual: _____

Habitat Observations (CollectionMethod = Habitat_generic)		WADEABILITY: Y <input checked="" type="radio"/> N / Unk	BEAUFORT SCALE (see attachment):	DISTANCE FROM BANK (m): 8	STREAM WIDTH (m): 100
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Smoke, Other _____	SKY CODE: Clear, <u>Partly Cloudy</u> , Overcast, Fog, Smoky, Hazy	WIND DIRECTION (from):	PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)	WATER DEPTH (m):	LOCATION (to sample): US / DS / WI /
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____	DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other _____	PRECIPITATION: <u>None</u> , Fog, Drizzle, Rain, Snow			
WATERCLARITY: Clear (see bottom), <u>Cloudy</u> (>4" vis), Murky (<4" vis)	PRECIPITATION (last 24 hrs): <u>Unknown</u> , <1", >1", <u>None</u>	EVIDENCE OF FIRES: No, <1 year, <5 years			
WATERODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other _____	OVERLAND RUNOFF (Last 24 hrs): <u>none</u> , light, moderate / heavy, unknown				
WATERCOLOR: Colorless, <u>Green</u> , Yellow, Brown	OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs				

Field Measurements (SampleType = FieldMeasure; Method = Field)

	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)				
SUBSURF/MID/BOTTOM/REP	0.5		14.68	19.93	7.05	8.35	91.7	113	0.05	2.1				
SUBSURF/MID/BOTTOM/REP														
SUBSURF/MID/BOTTOM/REP														
Instrument:														
Calib. Date:														

Samples Taken (# of containers filled) - Method=Water_Grab

Instrument:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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COMMENTS: Sacramento River at Hood for Delta RMP

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ

*StationID: 541SJC501	*Date (mm/dd/yyyy): 06 / 15 / 2016		Entered in d-base (initial/date)	Pg of Pgs
*Funding:	ArrivalTime: 1230	DepartureTime: 1250	*Group: PFR 6	*Agency: USGS
*ProjectCode:	*Personnel: MOD, SMS, MSG		*SampleTime (1st sample): 1240	*Protocol:
*Location: Bank Thalweg Midchannel OpenWater	*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas		*PurposeFailure:	
GPS Device:	*GPS/DGPS	Lat (dd.ddddd): 37.676041	Long (ddd.ddddd): -121.266329	OCCUPATION METHOD: Walk-in Bridge RV Other
Datum: NAD83	Accuracy (ft / m):	Target:	STARTING BANK (facing downstream): LB / RB / NA	
*Actual:		Point of Sample (if Integrated, then -88 in dbase)		

Habitat Observations (CollectionMethod = Habitat_generic)

SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other	WADEABILITY: Y / N / Unk	BEAUFORT SCALE (see attachment):	DISTANCE FROM BANK (m):	STREAM WIDTH (m): 30
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy	WIND DIRECTION (from):	PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)	WATER DEPTH (m): 1.5	
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other	LOCATION (to sample): US / DS / WI /			
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other		1: (RB / LB / BB / US / DS / ##)		
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	PRECIPITATION: None, Fog, Drizzle, Rain, Snow	2: (RB / LB / BB / US / DS / ##)		
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	3: (RB / LB / BB / US / DS / ##)		
WATERCOLOR: Colorless, Green, Yellow, Brown	EVIDENCE OF FIRES: No, <1 year, <5 years			
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown				
OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs				

Field Measurements (SampleType = FieldMeasure; Method = Field)

	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)
SUBSURF/MID/BOTTOM/REP	0.5		25.09	21.23	8.64	14.07	159.7	433	0.21	7.0
SUBSURF/MID/BOTTOM/REP										
SUBSURF/MID/BOTTOM/REP										
Instrument:										
Calib. Date:										

Samples Taken (# of containers filled) - Method=Water_Grab

SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)						
Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity	VOAs
Sub/Surface												
Sub/Surface												

COMMENTS: San Joaquin River at Airport Way near Vernalis for Delta RMP

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ

*StationID: 511ULCABR

*Funding: _____

*ProjectCode: _____

*Location: Bank Thalweg Midchannel OpenWater

GPS Device: _____

Datum: NAD83

Accuracy (ft / m): _____

*Date (mm/dd/yyyy): 05 / 15 / 2016

ArrivalTime: 1430

DepartureTime: 1500

*Personnel: MDD, JMS, MSG

*GPS/DGPS

Lat (dd.ddddd)

Long (ddd.ddddd)

Target: 38.307006

-121.795122

*Actual: _____

*Purpose (circle applicable): WaterChem WaterTox Habitat FieldMeas

Entered in d-base (initial/date)

*Group: PFRG

*SampleTime (1st sample): 1440

Pg of Pgs

*Agency: USGS

*Protocol: _____

*PurposeFailure: _____

OCCUPATION METHOD: Walk-in Bridge R/V _____ Other _____

STARTING BANK (facing downstream): LB RB / NA

Point of Sample (if Integrated, then -88 in dbase)

SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other _____

SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy

OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, Other _____

DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Boulder, Gravel, Sand, Mud, Unk, Other _____

WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)

WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other _____

WATERCOLOR: Colorless, Green, Yellow, Brown

BEAUFORT SCALE (see attachment): _____

WIND DIRECTION (from): W

PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)

PRECIPITATION: None, Fog, Drizzle, Rain, Snow

PRECIPITATION (last 24 hrs): Unknown, <1", >1", None

EVIDENCE OF FIRES: No, <1 year, <5 years

OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown

OBSERVED FLOW: NA, Dry Waterbody Bed, No Obs Flow, Isolated Pool, Trickle (<0.1cfs), 0.1-1cfs, 1-5cfs, 5-20cfs, 20-50cfs, 50-200cfs, >200cfs

Field Measurements (SampleType = FieldMeasure; Method = Field)

	Depth Collec (m)	Velocity (fps)	Air Temp (°C)	Water Temp (°C)	pH	O ₂ (mg/L)	O ₂ (%)	Specific Conductivity (µS/cm)	Salinity (ppt)	Turbidity (ntu)			
SUBSURF/MID/BOTTOM/REP	<u>0.5</u>		<u>20.69</u>	<u>18.96</u>	<u>8.17</u>	<u>9.42</u>	<u>100.9</u>	<u>1040</u>	<u>0.52</u>	<u>10.7</u>			
SUBSURF/MID/BOTTOM/REP													
SUBSURF/MID/BOTTOM/REP													
Instrument:													
Calib. Date:													

Samples Taken (# of containers filled) - Method=Water_Grab

SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE:				Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)					
Depth Collec (m)	Inorganics	Bacteria	Chl a	TSS / SSC	TOC / DOC	Total Hg	Dissolved Mercury	Total Metals	Dissolved Metals	Organics	Toxicity
Sub/Surface											
Sub/Surface											

COMMENTS: Ulatis Creek at Browns Road for Delta RMP