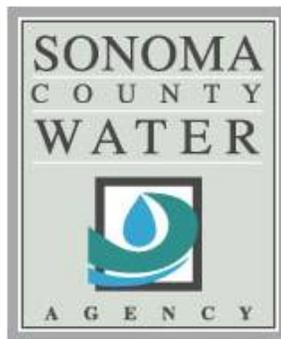


Sonoma County Water Agency
Stream Maintenance Program (SMP)
**Annual Notification for
2015 Maintenance Projects**

Prepared for:
The SMP Inter-Agency Working Group



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Sonoma County Water Agency Stream Maintenance Program 2015 Projects

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Section 1

Project List and Locations

1A. Sediment Removal and Bank Stabilization Project List and Type

The following sediment removal and bank stabilization projects are anticipated for the 2015 maintenance season:

Zone 1A

- **Five Localized Scale Sediment Removal Projects at:**
 - Coleman Creek Reach 2: outfalls from Hampton, Hamlet, Hazel and Harvard Courts
 - Colgan Creek Reach 7: on the west side of Santa Rosa Avenue
 - Kawana Springs Creek Reach 1A: at Colgan Avenue
 - Laguna de Santa Rosa Reach 2: at confluence of Gossage and Hinebaugh creeks
 - Peterson Creek Reach 1: at the confluence with Forestview Creek
- **One Reach Scale Sediment Removal Projects at:**
 - Peterson Creek Reach 2: between the Youth Community Park and Guerneville Road
- **One Bank Repair Project at:**
 - Peterson Creek Reach 1: approximately 900 feet upstream from the confluence with Santa Rosa Creek, STA 516+00
- **Five In-stream Basin Clearings at:**
 - Brush Creek Reach 2B: at the confluence with Austin Creek
 - College Creek Reaches 1 and 2: at West College Avenue
 - Copeland Creek Reaches 4 and 5: above and below Snyder Lane
 - Santa Rosa Creek Reach 1: nine locations between STA 429+60 to STA 377+00
 - Todd Creek Reach 5B: above and below the outfall at the top of the Reach

■ Five Reservoir Inlet Clearings at:

- Brush Creek Reservoir
- Matanzas Creek Reservoir
- Piner Creek Reservoir
- Santa Rosa Creek Reservoir (Spring Lake)
- Fish Ladder in Santa Rosa Diversion Structure: upstream of Santa Rosa Creek Reservoir

Zone 2A**■ One Localized Scale Sediment Removal Project at:**

- East Fork McDowell Creek Reach 1: at the uppermost culvert

■ One Reach Scale Sediment Removal Projects at:

- Adobe Creek Reaches 1 and 2: between Hwy 116 and Shollenberger Park

Zone 4A**■ One Localized Scale Sediment Removal Project at:**

- Wood Creek Reach 1: at the railroad crossing on Railroad Avenue

Zone 8A**■ One Reach Scale Sediment Removal Project at:**

- Bloomfield Channel Reach 1: Between Bloomfield Road and Valley Ford Road

1B. Sediment Removal and Bank Stabilization Project Site Locations and Other Geographic Information

The following table presents location and geographic information for each of the 2015 project sites.

Table 1-1: Location and Other Geographic Information for 2015 Project Sites

Project Site	Creek	Tributary To	SMP Reach(es)	USGS Quad, Township, Range, Section	Latitude/ Longitude
ZONE 1A					
<i>Localized Scale Sediment Removal Projects</i>					
Coleman Creek at four outfalls	Coleman Creek	Wilfred Ext. Wilfred Creek	Coleman 2	Cotati Quad, T6N,R8W, Section 13	38.369 N, -122.687 W
Colgan Creek on the West side of Santa Rosa Ave	Colgan Creek	Laguna de Santa Rosa	Colgan 7	Santa Rosa Quad, T7N,R8W, Section 26	38.420 N, -122.714 W
Kawana Springs Creek at Colgan Ave	Kawana Springs Creek	Colgan Creek	Kawana 1A	Santa Rosa Quad, T7N,R8W, Section 26	38.421 N, -122.712 W
Laguna de Santa Rosa at confluence with Gossage and Hinebaugh Creeks	Laguna de Santa Rosa	Mark West Creek	Laguna 2	Cotati Quad, T6N, R8W, Section 22	38.349 N, -122.732 W
Peterson Creek at the confluence with Forestview Creek	Peterson Creek	Santa Rosa Creek	Peterson 1	Sebastopol Quad, T7N, R8W, Section 18	38.45 N, -122.781 W
<i>Reach Scale Sediment Removal Projects</i>					
Peterson Creek from Youth Community Park to Guerneville Rd	Peterson Creek	Santa Rosa Creek	Peterson 2	Sebastopol Quad, T7N, R8W, Section 18	38.453 N, -122.78 W
<i>Bank Repair Projects</i>					
Peterson Creek 900 feet up from confluence with Santa Rosa Creek	Peterson Creek	Santa Rosa Creek	Peterson 1	Sebastopol Quad, T7N, R8W, Section 18	38.349 N, -122.732 W
<i>In-stream Sediment Basin Clearing Projects</i>					
Brush Creek at confluence with Austin Creek	Brush Creek	Santa Rosa Creek	Brush 2B	Santa Rosa Quad, T7N, R7W, Section 07	38.463 N, -122.676 W

Project Site	Creek	Tributary To	SMP Reach(es)	USGS Quad, Township, Range, Section	Latitude/ Longitude
College Creek at West College Ave	College Creek	Santa Rosa Creek	College 1 and 2	Santa Rosa Quad, T7N, R8W, Section 16	38.445 N, -122.752 W
Copeland Creek at Snyder Ln	Copeland Creek	Laguna de Santa Rosa	Copeland 4 & 5	Cotati Quad, T6N, R8W, Section 25	38.343 N, -122.685 W
Santa Rosa Creek at Delta Pond	Santa Rosa Creek	Laguna de Santa Rosa	Santa Rosa 1	Sebastopol Quad, T7N, R9W, Section 14	38.447 N, -122.821 W
Todd Creek above and below uppermost outfall	Todd Creek	Bellevue-Wilfred Channel	Todd 5B	Santa Rosa Quad, T6N, R8W, Section 02	38.397 N, -122.709 W
Reservoir Inlet Clearing Projects					
Brush Creek Reservoir	Brush Creek	Santa Rosa Creek	N/A	Santa Rosa Quad, T7N, R7W, Section 6	38.487 N, -122.671 W
Matanzas Creek Reservoir	Matanzas Creek	Santa Rosa Creek	N/A	Santa Rosa Quad, T7N, R7W, Section 32	38.405 N, -122.652 W
Piner Creek Reservoir	Paulin Creek	Santa Rosa Creek	N/A	Santa Rosa Quad, T7N, R8W, Section 11	38.466 N, -122.706 W
Santa Rosa Creek Reservoir (Spring Lake)	Santa Rosa Creek	N/A	N/A	Santa Rosa Quad, T7N, R7W, Section 17	38.46 N, -122.654 W
Fish Ladder in Santa Rosa Creek Diversion Structure	Santa Rosa Creek	Spring Lake	Santa Rosa Div. 1	Santa Rosa Quad, T7N, R7W, Section 17	38.46 N, -122.654 W
ZONE 2A					
Localized Scale Sediment Removal Projects					
East Fork McDowell Creek at uppermost culvert	East Fork McDowell Creek	McDowell Creek	E. Fork McDowell 1	Petaluma River Quad, T5N, R7W, Section 34	38.237 N, -122.614 W
Reach Scale Sediment Removal Projects					
Adobe Creek from Hwy 116 and Shollenberger Park	Adobe Creek	Petaluma River	Adobe 1 and 2	Petaluma River Quad, T5N, R7W, Section 35	38.232 N, -122.599 W
ZONE 4A					
Localized Scale Sediment Removal Projects					
Wood Creek at the RR crossing on Railroad Ave	Woods Creek	Russian River	Woods 1	Geyserville Quad, T10N, R10W, Section 13	38.713 N, -122.911 W

Project Site	Creek	Tributary To	SMP Reach(es)	USGS Quad, Township, Range, Section	Latitude/ Longitude
ZONE 8A					
<i>Reach Scale Sediment Removal Projects</i>					
Bloomfield Channel from Bloomfield Rd to Valley Ford Rd	Bloomfield Channel	Estero Americano	Bloomfield 1	Two Rock Quad, T6N, R9W, Section 33	38.312 N, -122.851 W

1C. Sediment Removal and Bank Repair Project Settings and Resources

Channel Characterization Sheets and Site Photos

Channel characterization sheets for the 2015 project sites were developed for, and included in, Chapter 4 of the Stream Maintenance Program (SMP) Manual. The channel characterization sheets contained within the Manual provide baseline information on the maintenance reach's setting, physical processes, geomorphic conditions, biologic conditions, and management considerations. The channel characterization sheets also include photographs depicting typical conditions of the reach. Program reviewers are directed to view the reach characterization sheets in the Manual (Chapter 4) to provide an overview of reach conditions.

Current photographs showing the specific location of maintenance activities for the 2015 project sites are provided in Appendix A.

Potential Habitat for Listed Species

Based on possible listed species occurrences, Table 1-2 below indicates which of the applicable species-specific Best Management Practices (BMPs) (identified in Table 7-1 of the SMP Manual) will be applied when conducting maintenance activities. Specifically, the BMPs that will be applied are listed in Table 1-2 according to maintenance activity type. This table is an excerpt of Table 7-2 from the SMP Manual. Maps displaying the project location relative to known biological resources California Natural Diversity Database (CNDDB) are included in Appendix B.

Table 1-3 (below) presents habitat potential for listed species by reach. This table is an excerpt from Table 7-3 of the SMP Manual. As shown in Table 1-3, none of the project reaches are known to support or provide suitable habitat for California freshwater shrimp, Central California Coast Coho salmon, or California Coastal Chinook salmon. Nine project sites (Adobe 1 and 2, Brush 2B, Copeland 4 and 5, Laguna 2, Santa Rosa 1, Santa Rosa Creek Reservoir and Santa Rosa Creek Fish Ladder) provide potential habitat for, or there is a known occurrence in or adjacent to the reach, for Central California Coast Steelhead. Additionally, most of the project sites show potential habitat for the Western Pond Turtle, with the exceptions of Bloomfield 1 and Coleman 2.

Several project reaches are within 1.3 miles of a known California Tiger Salamander (CTS) occurrence and/or may provide potential upland aestivation habitat for CTS, specifically: Coleman 2, Colgan 7, College 1 and 2, Copeland 4 and 5, Kawana 1A, Laguna 2, Peterson 1 and 2, Santa Rosa 1 and Todd 5B. CTS BMPs BR-12, BR-13, and BR-14 will be implemented for vegetation management activities and ground disturbing projects in these areas. Additional information regarding potential effects on CTS, areas of disturbance and compensatory mitigation can be found in Section 2D of this notification.

Maintenance reaches proposed for 2015 potentially supporting California red-legged frog (CRLF) include Adobe 1 and 2, Bloomfield 1, Brush 2B, Brush Creek Reservoir, E. Fork McDowell 1, Matanzas Creek Reservoir, Piner Creek Reservoir, Santa Rosa Creek Reservoir and Santa Rosa Creek Fish Ladder. Furthermore, Copeland 5, the Santa Rosa Creek Diversion Fish Ladder, and Wood 1 may include potential habitat for foothill yellow-legged frog. Finally, three of the anticipated 2015 maintenance reaches have the potential to support special-status plant species (i.e. Sonoma sunshine (*Blennosperma bakeri*), Burke's goldfields (*Lasthenia burkei*) and Sebastopol meadowfoam (*Limnathes vinulans*)), specifically Laguna 2, Peterson 2 and Santa Rosa 1.

Table 1-2: Best Management Practices by Activity

BMP	Name	Sediment Removal	Bank Stabilization	Vegetation Management							Other Activities	
				Willow Removal	Blackberry Removal	Cattail Removal	Tree Pruning and Exotics Removal	Tree Removal and Relocation	Mowing	Nursery Stock Tree Planting	Reservoir Debris Removal	Sediment Disposal
General Impact Avoidance and Minimization												
GEN-1	Work Window	X	X	X	X	X	X	X	X	X	X	X
GEN-2	Staging and Stockpiling of Materials	X	X	X	X	X	X	X	X	X	X	X
GEN-3	Channel Access	X	X	X	X	X	X	X	X	X	X	X
Air Quality Protection												
AQ-1	Dust Management	X	X	X	X	X	X	X	X	X	X	X
AQ-2	Enhanced Dust Management	X	X	X	X	X	X	X	X	X	X	X
Biological Resources Protection												
BR-1	Area of Disturbance	X	X	X	X	X	X	X	X	X	X	X
BR-2	Pre-maintenance Educational Training	X	X	X	X	X	X	X	X	X	X	X
BR-3	Biotechnical Bank Stabilization		X									
BR-4	Impact Avoidance and Minimization During Dewatering	X	X									
BR-5	Fish and Amphibian Species Relocation Plan	X	X									
BR-6	On-Call Wildlife Biologist	X	X	X	X	X	X	X	X	X	X	X
BR-7	Special Status Plants	X	X	X	X	X	X	X	X	X	X	X
BR-8	Nesting Migratory Bird and Raptor Pre-maintenance Surveys	X	X	X	X	X	X	X	X	X	X	X
BR-10	California Red-legged Frog Avoidance and Impact Minimization Measures for Ground-Disturbing Activities	X	X								X	X
BR-11	California Red-legged Frog Avoidance and Impact Minimization for Vegetation Management			X	X	X	X	X	X	X		
BR-12	California Tiger Salamander Avoidance and Impact Minimization Measures for Sediment and Debris Removal	X		X	X						X	X

BMP	Name	Sediment Removal	Bank Stabilization	Vegetation Management							Other Activities		
				Willow Removal	Blackberry Removal	Cattail Removal	Tree Pruning and Exotics Removal	Tree Removal and Relocation	Mowing	Nursery Stock Tree Planting	Reservoir Debris Removal	Sediment Disposal	
BR-13	California Tiger Salamander Avoidance and Impact Minimization Measures for Bank Stabilization		X										
BR-14	California Tiger Salamander Avoidance and Impact Minimization Measures for Vegetation Management			X	X		X	X	X	X		X	
BR-15	Foothill Yellow-legged Frog Avoidance and Impact Minimization Measures for Ground-Disturbing Activities	X	X									X	X
BR-16	Foothill Yellow-legged Frog Avoidance and Impact Minimization Measures for Vegetation Management			X	X	X	X	X	X	X			
BR-17	Western Pond Turtle Pre-maintenance Surveys for Ground-Disturbing Activities	X	X	X	X	X	X	X	X	X		X	
BR-18	Zone 1A Salmonid Avoidance and Impact Minimization Measures	X	X	X	X					X			
Cultural Resources Protection													
CR-2	Cultural Resources Investigation		X										
CR-3	Previously Undiscovered Cultural Resources	X	X	X	X	X	X	X	X	X		X	X
CR-4	Previously Undiscovered Palentological Resources	X	X	X	X	X	X	X	X	X		X	X
CR-5	Staff Cultural Resources Training	X	X	X	X	X	X	X	X	X		X	X
CR-7	Ecosystem Restoration Program			X	X	X	X	X	X	X			
Hazardous Materials Safety													
HAZ-1	Spill Prevention and Response Plan	X	X	X	X	X	X	X	X	X		X	X
HAZ-2	Equipment and Vehicle Maintenance	X	X	X	X	X	X	X	X	X		X	X
HAZ-3	Equipment and Vehicle Cleaning	X	X	X	X	X	X	X	X	X		X	X
HAZ-4	Refueling	X	X	X	X	X	X	X	X	X		X	X
HAZ-5	On-Site Hazardous Materials Management	X	X	X	X	X	X	X	X	X		X	X
HAZ-6	Existing Hazardous Sites or Waste	X	X	X	X	X	X	X	X	X		X	X
HAZ-7	Fire Prevention	X	X	X	X	X	X	X	X	X		X	X

BMP	Name	Sediment Removal	Bank Stabilization	Vegetation Management							Other Activities		
				Willow Removal	Blackberry Removal	Cattail Removal	Tree Pruning and Exotics Removal	Tree Removal and Relocation	Mowing	Nursery Stock Tree Planting	Reservoir Debris Removal	Sediment Disposal	
HAZ-8	Testing and Disposal of Spoils	X	X									X	X
Vegetation Management													
VEG-1	Removal of Existing Vegetation	X	X	X			X	X		X			
VEG-2	Use of Herbicides			X	X	X	X	X					
VEG-3	Planting and Revegetation After Soil Disturbance	X	X				X	X		X			
Water Quality and Channel Protection													
WQ-1	Apply Erosion Control Fabric to or Hydroseeding of Exposed Soils	X	X	X	X	X	X	X				X	X
WQ-2	Prevent Scour Downstream of Sediment Removal	X											
WQ-3	In-Channel Grading	X	X										
Good Neighbor Policies													
GN-1	Work Site Housekeeping	X	X	X	X	X	X	X	X	X		X	X
GN-2	Public Outreach	X	X	X	X	X	X	X	X	X		X	X
GN-3	Noise Control	X	X	X	X	X	X	X	X	X		X	X
GN-4	Traffic Flow, Pedestrians, and Safety Measures	X	X	X	X	X	X	X	X	X		X	X
GN-5	Odors	X	X									X	X

Table 1-3: Habitat Potential for Listed Species by Reach

Reach	Listed Species								
	California Freshwater Shrimp	California Red-legged Frog	California Tiger Salamander*	Foothill Yellow-legged Frog	Western Pond Turtle	Central California Coast Steelhead	Central California Coast Coho	California Coastal Chinook	Plants
ZONE 1A									
Localized Scale Sediment Removal Projects									
Coleman 2	U	U	3(1,142.7)	U	U	U	U	U	U
Colgan 7	U	U	3(503.4)	U	P	U	U	U	U
Kawana 1A	U	U	3(925.4)	U	P	U	U	U	U
Laguna 2	U	U	2(4,281.3) ; 3(2,295.4)	U	P	O (M)	U	U	P
Peterson 1	U	U	3(2,696.6)	U	P	U	U	O*	U
Reach Scale Sediment Removal Projects									
Peterson 2	U	U	3(3,652.2)	U	P	U	U	U	P
Bank Repair Projects									
Peterson 1	U	U	3(2,696.6)	U	P	U	U	O*	U
In-stream Sediment Basin Clearing Projects									
Brush 2B	U	P	U	U	P	O (M/R)	U	U	U
College 1	U	U	3(2,675.1)	U	P	U	U	U	U
College 2	U	U	3(540.9)	U	P	U	U	U	U
Copeland 4	U	U	3(2,769.0)	U	P	O(M)	U	U	U
Copeland 5	U	U	3(1,368.1)	P	P	O(M/R)	U	U	U
Santa Rosa 1	U	U	3(3,323.1)	U	P	O (M)	U	O (M/S/R)	P
Todd 5B	U	U	3(1,010.3)	U	P	U	U	U	U
Reservoir Inlet Clearing Projects									
Brush Creek Reservoir	U	P	U	U	P	U	U	U	U
Matanzas Creek Reservoir	U	P	U	U	P	U	U	U	U
Piner Creek Reservoir	U	P	U	U	P	U	U	U	U
Santa Rosa Creek Reservoir	U	P	U	U	P	P	U	U	U
Santa Rosa Div. 1 (Fish Ladder)	U	P	U	P	P	O*	U	U	U

ZONE 2A									
Localized Scale Sediment Removal Projects									
E. Fork McDowell 1	U	P	U	U	P	U	U	U	U
Reach Scale Sediment Removal Projects									
Adobe 1	U	P	U	U	P	O(M)	U	U	U
Adobe 2	U	P	U	U	P	O(M)	U	U	U
ZONE 4A									
Localized Scale Sediment Removal Projects									
Wood 1	U	U	U	P	P	U	U	U	U
ZONE 8A									
Reach Scale Sediment Removal Projects									
Bloomfield 1	U	P	U	U	U	U	U	U	U

Source: SMP Manual Table 7-3 as updated by the BO processes and new data (March 2012)

Legend

- O Known occurrence in reach
- O* Presence documented within adjacent reach or tributary; not applicable for fish if known barrier or reach goes dry
- P Potential habitat (includes areas rated potential or marginal)
- M Migration corridor (fish only)
- S Known or potential spawning habitat (fish only)
- R Known or potential rearing habitat (fish only)
- U Unsuitable habitat, unlikely to occur and/or no known occurrence

CTS Habitat Rankings*

- 1 - Within 500 ft of a known occurrence
- 2 - Between 500ft-2200ft of a known occurrence
- 3 - Between 2200 ft and 1.3 mi of a known occurrence
- 4 - Greater than 1.3 mi, but within SRPCS range (no mitigation required)

*Parentheses following CTS habitat ranks notate distance (in feet) of each rank for reaches with more than one CTS ranking

1E. Vegetation Management Activities

During the 2015 maintenance season, vegetation maintenance will include tree and brush thinning, and removal of exotic species and other vegetation blockages to improve hydraulic capacity and retain or enhance appropriate habitat. Vegetation maintenance will be completed according to Appendix E of the SMP Manual (*Vegetation Management Plan*) as well as the associated terms and conditions of all programmatic permits and biological opinions.

For 2015, vegetation maintenance will be completed in the locations as shown below (Table 1-4). Note that maintenance generally occurs in only a portion of the identified reach, not the entire reach length. An addendum will be sent out in August to supplement this list if any subsequent requests for vegetation management are made for areas not shown below. The submission and approval of such an addendum is specified in the CDFW Streambed Alteration Agreement (No. 1600-2009-0399-R3) for the SMP.

Vegetation management activities for 2015 are proposed within a total of eighteen modified or natural channel reaches (Table 1-4 below). Project specific notifications (PSNs), as specified by CDFW and RWQCB permit terms, are included in Appendix C of this Notification. The PSNs include photo documentation of existing conditions, a description of the proposed project, an assessment

of the need for the proposed maintenance activities and identification of potential impacts to channels identified as functioning as potential habitat for threatened or endangered species. Post-maintenance photo documentation for approved projects within modified and natural channels will be included in the 2015 SMP Annual Post-Maintenance Summary Report.

Table 1-4. 2015 Vegetation Management Activities

Reach	Vegetation Management Activity		
	<i>Blackberry Management (Mowing, Hand Removal, Herbicide Treatment)</i>	<i>Exotics Management (Hand Removal, Herbicide Treatment)</i>	<i>Willow Pruning</i>
Engineered Channels			
Zone 1A			
Abramson 1			x
Airport 1			x
Airport 2			x
Austin 2	x		
Austin 3	x		
BellevueWilfred 4			x
Brush 2A	x		x
Brush 2B	x		x
Brush 1			x
Coffey 1	x		x
Coleman 2			x
Copeland 5			x
Golf 1	x		
Gossage 2A			x
Gossage 2B			x
Hinebaugh 1			x
Hinebaugh 2			x
Laguna 1			x
Laguna 2			x
Laguna 3			x
Laguna 6			x
Laguna 7			x
Paulin 2		x	
Paulin 4	x	x	x
Paulin 1		x	
Peterson 2	x		
Piner 1		x	
Piner 2		x	

Reach	Vegetation Management Activity		
	<i>Blackberry Management (Mowing, Hand Removal, Herbicide Treatment)</i>	<i>Exotics Management (Hand Removal, Herbicide Treatment)</i>	<i>Willow Pruning</i>
Piner 3B		x	
Piner 4		x	
Piner 5		x	
Roseland 3			x
Roseland 4			x
Santa Rosa 1	x		x
Santa Rosa 2			x
Santa Rosa 3			x
Santa Rosa 4			x
Santa Rosa 5			x
Starr Creek Trib 1			x
Todd 5A			x
Todd 5B			x
Windsor 1A	x	x	x
Zone 2A			
Adobe 1			x
Capri 4			x
Corona Creek Trib 2A			x
Corona 1			x
Corona 4			x
Corona 5			x
Corona 6			x
Corona 7			x
East Washington 4	x		x
East Washington 5			x
Lichau 2			x
Petaluma 1			x
Thompson 1			x
Washington 7			x
Zone 3A			
Fryer 1			x
Lower East Fork Fryer 1	x	x	
Zone 4A			
Wood 1			x
Zone 6A			
West Slough 1	x		x

Reach	Vegetation Management Activity		
	<i>Blackberry Management (Mowing, Hand Removal, Herbicide Treatment)</i>	<i>Exotics Management (Hand Removal, Herbicide Treatment)</i>	<i>Willow Pruning</i>
Modified Channels			
Zone 1A			
East Windsor 2	x		x
Oakmont 3	x		x
Zone 2A			
Petaluma 0C	x		x
Petaluma 0B	x		x
Petaluma 2	x		x
Lichau 3A	x		x
Lichau 3B	x		x
Lichau 3C	x		x
Lichau 3D	x		x
Zone 3A			
Nathanson 0	x		x
Rodgers 0A	x		x
Rodgers 1	x		x
Schell 2	x		x
Schell 3	x		x
Natural Channels			
Zone 5A			
Jonive 1	x		x
Jonive 2	x		x
Jonive 3	x		x
Hudspeth 1	x		x