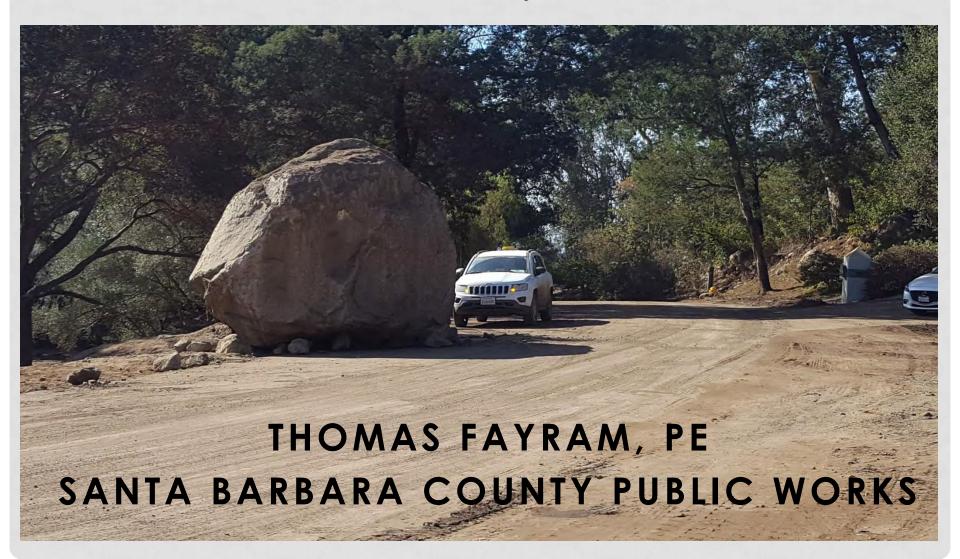
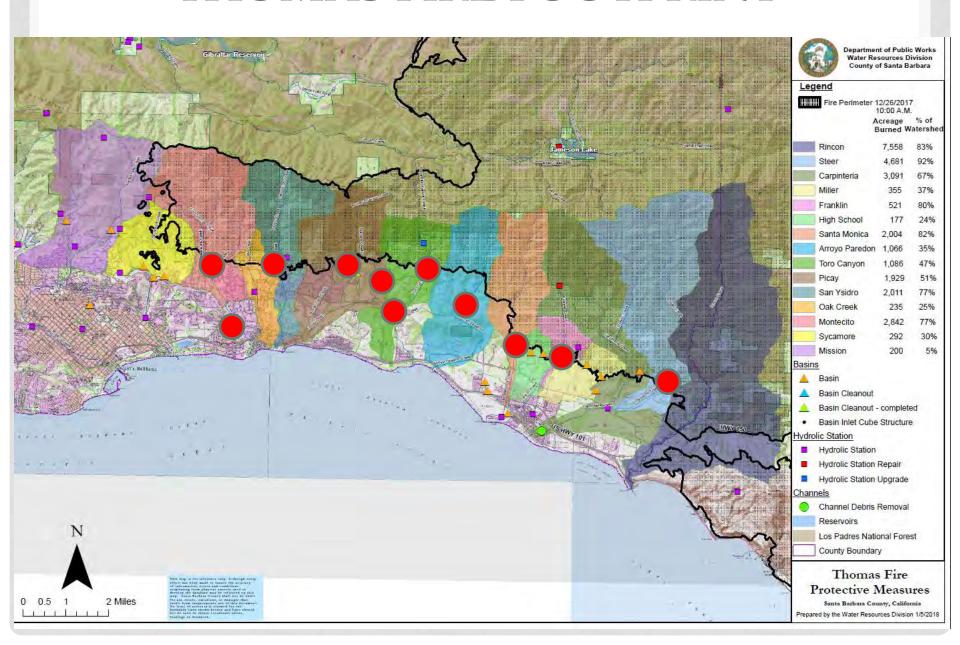
THOMAS FIRE AND THE 1-9 DEBRIS FLOW DECEMBER 2017 – JANUARY 2018



THOMAS FIRE FOOTPRINT



GOBERNADOR DEBRIS BASIN



BEFORE THE STORM (DEC 15 – JAN 5) RACE TO MAKE 11 BASINS "WHISTLE CLEAN"

• 11 Debris Basins cleared

• Work completed on Jan. 5, 2018



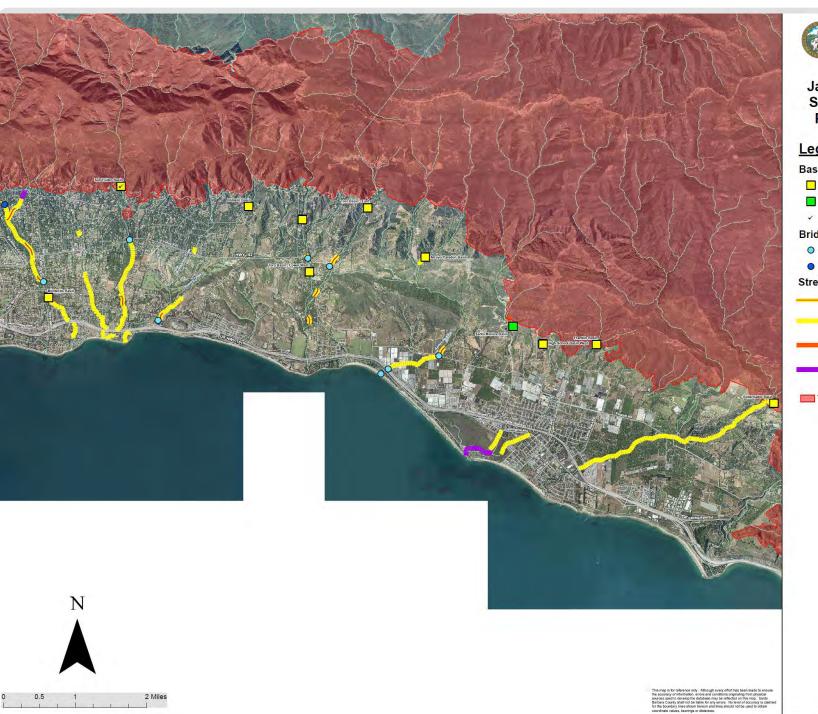
DEBRIS MOVEMENT

- Upper creek reaches scoured clear
- Lower reaches enormous deposition



CHANNELS OVERWHELMED







January 9, 2018 Storm Clean-up Progress Map

Legend

Basin Cleanout

- Complete
- In Progress
- ✓ Spillway Repair

Bridge Clearing

- Complete
- In Progress

Stream Clearing

- Work Done by USACE
- Complete
- In Progress
- To Be Done
- Thomas Fire





POST "INITIAL CLEARING" – FINAL CLEARING



CHANNEL CLEARING

County / Corps

County Forces

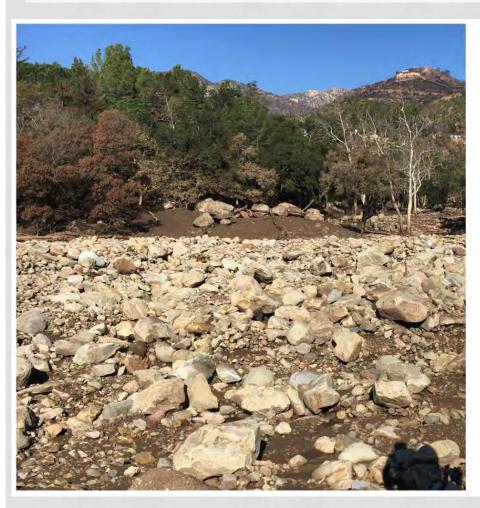




GOBERNADOR DEBRIS BASIN

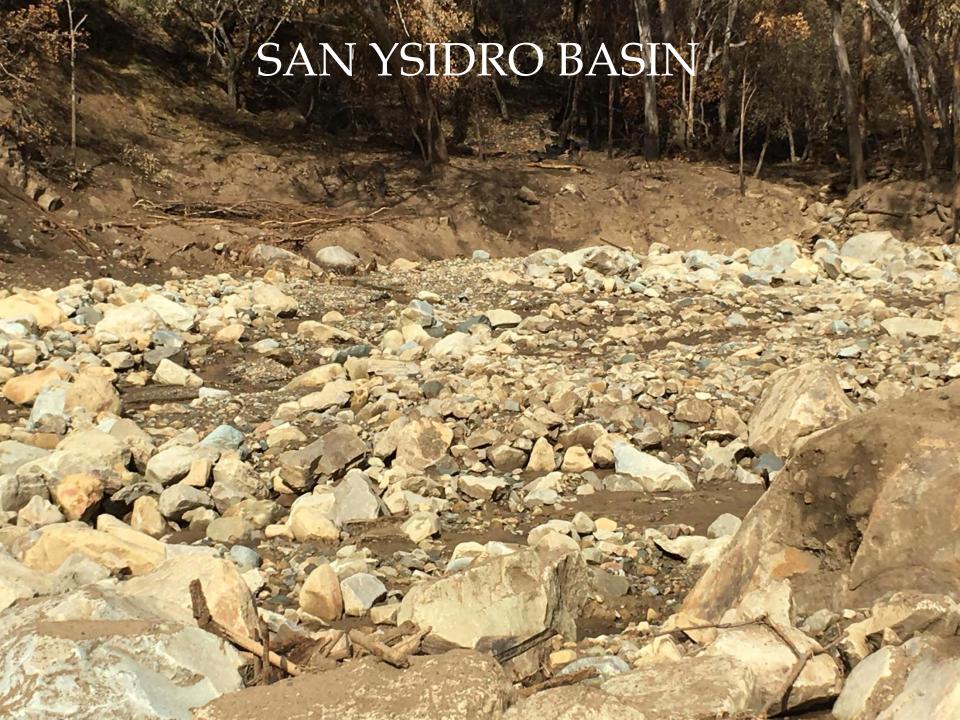


COLD SPRINGS DEBRIS BASIN

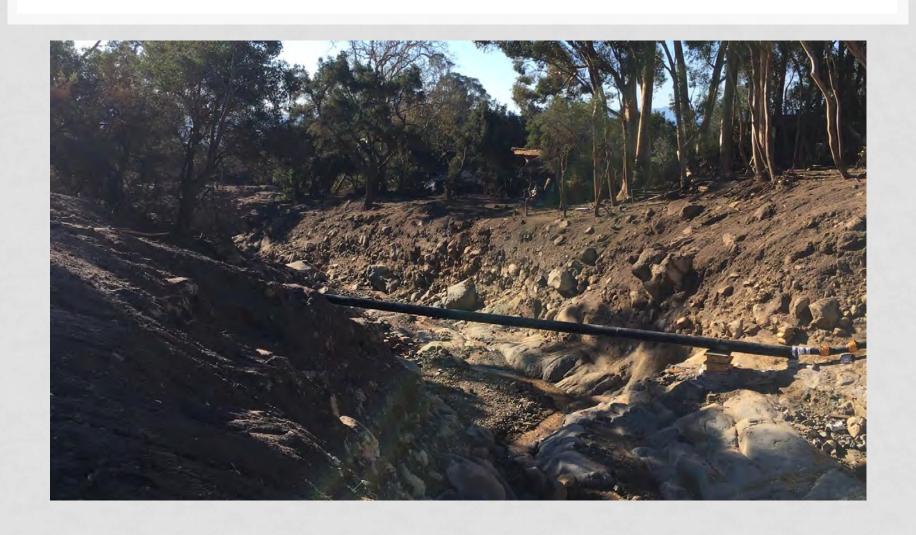








SAN YSIDRO CREEK DEBRIS BASIN

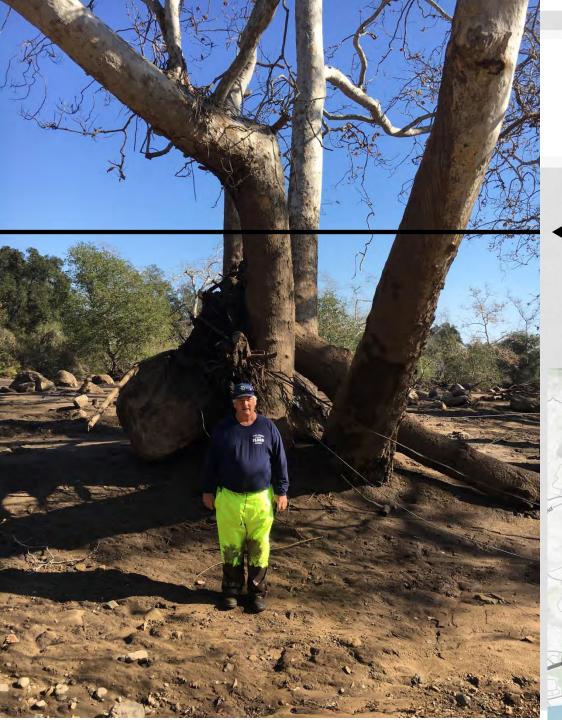


DEBRIS BASINS OVERWHELMED SAN YSIDRO BASIN



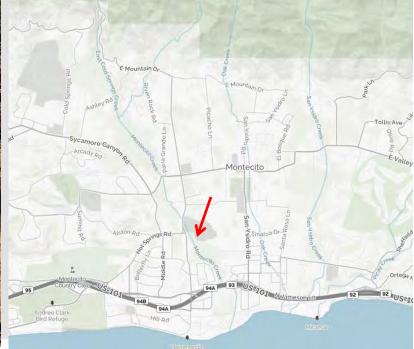
MONTECITO CREEK DEBRIS BASIN





MONTECITO CREEK DEBRIS BASIN

Approximate Debris
Flow Line





BASINS AS OF: 08 MAR 2018 @ 1700 hours											
Basin/Site	Hauling Start Date	Status	Truck Loads	СУ	Total to date	Revised Quantities	Actual / Estimated	Expected End Date			
Cold Springs	14-Jan	Hauling Complete	0	0	24,782	24,782	Actual removed (complete)	Debris removal complete			
Montecito	17-Jan	Hauling Complete	Ó	0	2,325	2,325	Actual removed (complete)	Debris removal complete			
Gobernador	16-Jan	Hauling Complete	0	0	11,408	11,408	Actual removed (complete)	Debris removal complete			
Franklin	18-Jan	Hauling Complete	0	0	1,162	1,162	Actual removed (complete)	Debris removal complete			
Santa Monica	15-Jan	Stockpiling & breaking rock	48	531	146,199	156,000	Estimated (basin capacity + overburden)	15-Mar			
San Ysidro	16-Jan	Hauling Complete	0	0	21,747	21,747	Actual removed (complete)	Debris removal complete			
Romero	21-Jan	Hauling Complete	0	0	43,216	43,216	Actual removed (complete)	Debris removal complete			
Arroyo Paredon Basin	17-Jan	Hauling Complete	0	0	24,029	24,029	Actual removed (complete)	Debris removal complete			
Toro Upper West	21-Jan	Hauling Complete	0	0	15,916	15,916	Actual removed (complete)	Debris removal complete			
Toro East	21-Jan	Hauling Complete	0	0	15,151	15,151	Actual removed (complete)	Debris removal complete			
Toro Lower West	23-Jan	Hauling Complete	0	0	12,277	12,277	Actual removed (complete)	Debris removal complete			
			48	531	318,212	328,013	Percent complete	97%			

AS OF: 08 MAR 2018 @ 1700 hours									
Hauling Start	40.00	Truck Loads	Cubic	Overall Quantities					
Date	Status		Yardage	Estimated quantities	Total to date				
7-Feb	Hauling Complete		0	3,388					
8-Feb	Hauling Complete	0	0	2,352	2,352				
9-Feb	Hauling Complete	0	0	5,489	5,489				
12-Feb	Hauling Complete	0	0	5,341	5,341				
14-Feb	Hauling Complete	0	0	3,365	3,365				
18-Feb	Hauling Complete	0	0	5,819	5,819				
27-Feb	Hauling Complete	0	0	6,625	6,625				
14-Feb	Hauling Complete	0	0	3,796	3,796				
23-Feb	Hauling Complete	0	0	3,041	3,041				
20-Feb	Hauling Complete	0	0	5,925	5,925				
TBD		0	0	20,000	0				
	7-Feb 8-Feb 9-Feb 12-Feb 18-Feb 27-Feb 14-Feb 23-Feb 20-Feb	Hauling Start Date 7-Feb Hauling Complete 8-Feb Hauling Complete 9-Feb Hauling Complete 12-Feb Hauling Complete 14-Feb Hauling Complete 27-Feb Hauling Complete 27-Feb Hauling Complete 44-Feb Hauling Complete 27-Feb Hauling Complete 44-Feb Hauling Complete	Hauling Start Date Status Truck Loads 7-Feb Hauling Complete 0 8-Feb Hauling Complete 0 12-Feb Hauling Complete 0 14-Feb Hauling Complete 0 18-Feb Hauling Complete 0 18-Feb Hauling Complete 0 27-Feb Hauling Complete 0 27-Feb Hauling Complete 0 27-Feb Hauling Complete 0 27-Feb Hauling Complete 0 14-Feb Hauling Complete 0	Hauling Start Date Status Truck Loads Cubic Yardage 7-Feb Hauling Complete 0 0 8-Feb Hauling Complete 0 0 9-Feb Hauling Complete 0 0 12-Feb Hauling Complete 0 0 14-Feb Hauling Complete 0 0 27-Feb Hauling Complete 0 0 14-Feb Hauling Complete 0 0 23-Feb Hauling Complete 0 0 20-Feb Hauling Complete 0 0	Hauling Start Date Status Truck Loads Cubic Yardage Estimated quantities				

0

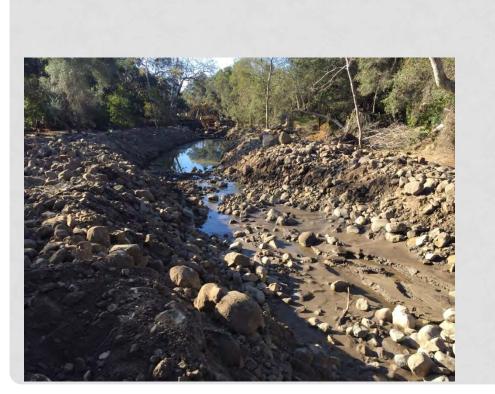
65,141

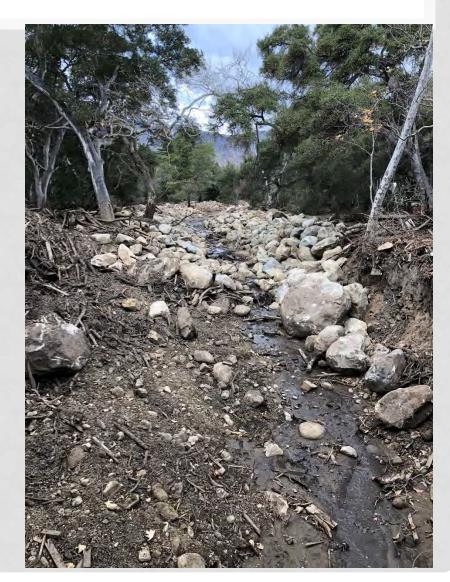
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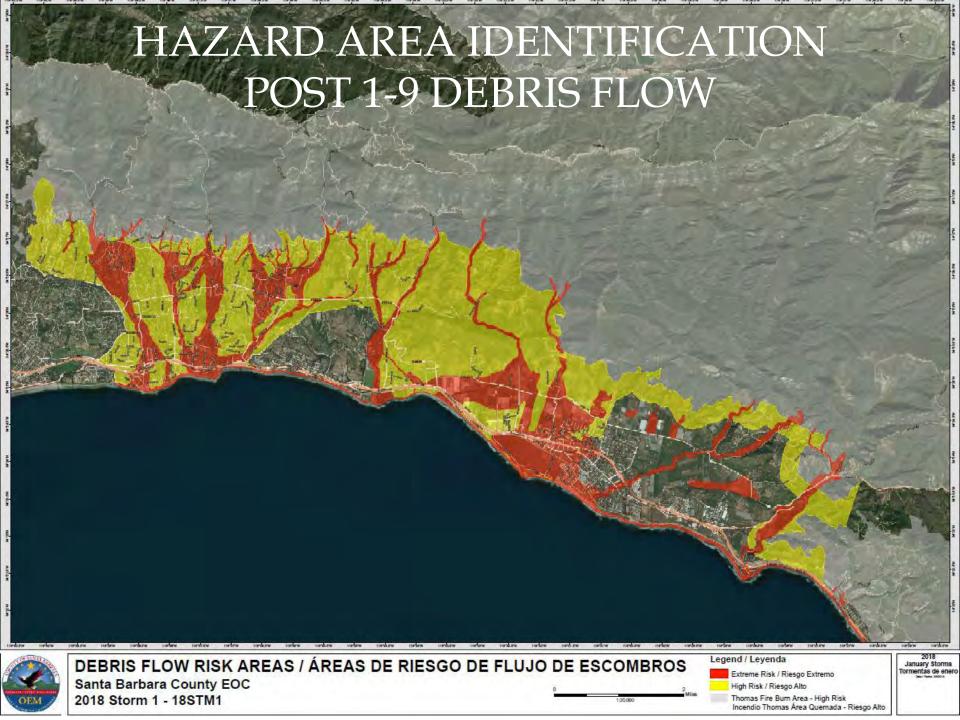
45,141

PERCENT COMPLETE

69%









"If the rain comes as predicted and the debris flow estimates are true, it's probably going to be something we haven't seen before,"