

An aerial photograph of a volcanic eruption. In the foreground, the tip of a red and white propeller is visible, suggesting the viewer is looking out from an aircraft. The landscape below is a mix of green forest and brown, ash-covered ground. In the background, a large mountain range is partially obscured by thick, dark volcanic ash clouds. A bright light source, likely the sun, is breaking through a gap in the clouds, creating a dramatic, high-contrast scene.

CalRecycle's Disaster Debris Removal and Recovery Program

21 February 2018

Coordinated Disaster Debris Removal Programs

- Pursuant to Governor's Proclamation of a State of Emergency.
- "As necessary to assist local government and for the protection of public health and the environment, (agencies) arrange for materials and services to remove dangerous debris . . ."
- Mission: Protection of public health and safety from impacts of ash, debris, and hazardous materials.
- Accelerate the recovery process.



Responding Agencies: *One Team – One Fight*

- Federal Partners

- USEPA
- USACE
- FEMA

- Local Partners

- County/City Governments and Agencies
- Tribal Governments
- Local Air Pollution Control Districts
- Solid Waste Local Enforcement Agencies

- State Partners

- CalOES
- CalEPA
- CalRecycle
- DTSC
- Regional Water Quality Control Boards
- Dept. of Finance
- DGS

Disaster Debris Removal and Recovery

Operating Principles

- Safety: Ensuring crew, resident, and community safety during and after our operations.
- Documentation: Documenting sites, expectations, deliverables, and outcomes.
- Communication: Communicating with residents, local government, partner agencies, and within the teams to maintain awareness and problem solve.

Disaster Debris Removal and Recovery Pre-operational Process

- Active and ongoing engagement with CalOES.
- Dialogue and collaboration with local governments.
- Community meetings.
- Developing operations plans, staffing plans and schedules, contract documents, and preparing solicitations.

Disaster Debris Removal Operations Summary

Incident	Year	Properties	Duration	Tonnage Collected	Cost
Angora Fire, El Dorado County	2007	256	11 Weeks	73,004	\$7 Million
San Bruno PG&E Natural Gas Line Explosion, San Mateo County	2010	35	4 Weeks	7,913	\$2 Million
Boles Fire, City of Weed	2014	134	7 Weeks	30,691	\$6.4 Million
Round Fire, Mono County	2015	41	5 Weeks	9,239	\$5.0 Million
Trinity Complex of Fires, Trinity County	2015/16	60	3 Weeks	1,446	\$2.1 Million
Rocky and Jerusalem Fires, Lake County	2015	83	4 Weeks	9,545	\$4.7 Million
Valley Fire, Lake County	2015/16	1,140	18 Weeks	252,434	\$91.7 Million
Butte Fire, Calaveras County	2015/16	883	24 Weeks	235,263	\$111.4 Million
Erskine Fire, Kern County	2016	301	8 Weeks	50,446	\$20.2 Million
Clayton Fire, Lake County	2016	157	6 Weeks	34,498	\$10.2 Million
Detwiler Fire, Mariposa County	2017	113	8 Weeks	28,368	\$10.5 Million ¹
Helena Fire, Trinity County	2017	67	6 Weeks	29,972	\$8.0 Million ¹
Wind Fire, Nevada, Yuba and Butte Counties	2017	250 ¹	8 Weeks ¹	Unavailable	\$35.0 Million ¹
Sulphur Fire, Lake County (Gooseneck)	2017	12 ¹	4 Weeks	Unavailable	\$1.4 Million
Thomas Fire, Ventura County	2018	650 ¹	12 Weeks	Unavailable	\$58.5 Million ¹
Mud Slides, Santa Barbara County	2018	Unknown	6 weeks	Unavailable	\$2.0 Million ¹

¹ Estimated.

Fall/Winter 2017 Wildfires/Mudslides

Agency Responsibility for Debris Removal/Affected Counties

- CalRecycle
 - Butte County
 - Nevada County
 - Yuba County
 - Lake County (Gooseneck)
 - Trinity County
 - Ventura County
 - Santa Barbara County
(Ventura Fairgrounds
Operation)
- USACE
 - Napa County
 - Sonoma County
 - Mendocino County
 - Lake County

Ventura Fairgrounds Transfer/Processing Operation

Santa Barbara County

- Incident Status Summary (02/17/2018)
 - Inbound
 - Estimated Totals:
 - Mixed Debris – 1,987 loads at est. 28,832 CY
 - Rock – 61 loads at est. 1,086 CY
 - Outbound
 - Estimated Totals:
 - Soil – 29,628 CY
 - Rock – 2,268 CY
 - Wood – 1,296 CY
 - Waste – 162 CY
 - Metal – 43 CY



Ventura Fairgrounds Operation

Classified as an Emergency Transfer/Processing Operation.



American Integrated Services, Inc.
 1502 E. Opp St., Wilmington, CA. 90744
 CA License No. 757133

Project Name & No.:	VCF-Soil Sorting AIS Project No. 38055
Address:	10 W Harbor Blvd, Ventura CA, 93001
Location:	Ventura County Fairgrounds (Laydown)
Date:	Week Ending, 4FEB18

FOREMAN'S REPORT

LABOR										Work Days (Various)
Employee Name	Title	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Week Total	
Carlos Pelayo	Deputy Operations Chief	12	12	12	12				48	Monday 29JAN18- AIS arrived onsite at 0630. Held tailgate meeting and ran heavy equipment checks on the equipment. Today we had 19 trucks round tripping. 9 trucks were on a loop where they went to Carpenteria with soil from our site, then picked up debris from Greenwell, and then came back to us. 4 trucks went specifically to Carpenteria, and the final 6 trucks went to Goleta. We imported 39 loads (39 end-dumps, ~702 CY). We exported 97 loads (23 loads to Goleta (-414 CY), 73 loads to Carpenteria (-1314 CY), and 1 load of trash to Tajiguas (18 CY) at ~1030 for a total of ~1746 CY). We continued to segregate material from the NW stockpile through most of the day and began sorting the large northern stockpiles in the late afternoon and early evening. Our wood pile has been cleaned and is ready to be exported. Due to high winds, we did not cover all remaining stockpiles. We secured the site and left at 630PM. Security arrived at 630PM.
Ronald Carballo	Operations Chief	12	12	12	12	12	12		72	
Isaac Herrera	Engineer	12	12	12	12				48	
David Torres	Operator	12	12	12	12	12			60	
Benjamin Gutierrez	Operator	12	12	12	12	12	12		72	
Jose Avila	Operator	12	12	12	12	12	12		72	
Ricardo Guerrero	Operator	12	12	12	12	12	12		72	
Juan Ramirez	Operator	12	12	12	12	12	12		72	
Mike Callahan	Operator		12	12	12	12	12		60	
Louis Cruz	Technician	12	12	12	12	12	12		72	
Nick Vergara	Technician	12	12	12	12	12	12		72	
Nick Ochoa	Technician	12	12	12	12	12	12		72	
Michael Zumayama	Technician	12	12	12	12	12	12		72	
Elias Mosqueda	Technician	12	12	12	12	12	12		72	
Gustavo Torres	Technician	12	12	12	12	12			60	
Omero Molina	Technician					12	12		24	
Stephanie Stater	Engineer					12	12		24	
Kelly Stater	Deputy Operations Chief								0	
Steve Elliot	Deputy Operations Chief						12		12	
Nacho Leora	Technician							12	12	
Jeff Ocampo	Operator							12	12	
Subtotal - Environmental & Labor		168	180	180	180	180	192	0	1080	
EQUIPMENT & MATERIALS (Hours Used/Days Used)										
Equipment/Units	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Week Total		
1021 Loader (LDRRT)(CAT)(2372G)	12	12	12	12	12	12		72	Thursday 1FEB18- AIS arrived onsite at 0600. Northwestern area of the site designated for Ventura fire cleanup staging area. Held tailgate meeting and ran heavy equipment checks on the equipment. Today we had 5 trucks round tripping to Carpenteria. However, one of the trucks broke down on his 4th load out, so we exported 19 loads (19 to Carpenteria, ~342 CY). Imported 0 loads of material. Most of the day was spent segregating soil from the large northern stockpiles. Due to the large amount of debris, we had all hands on deck hand picking material from the piles. Since some of the stockpiles are unstable, we only covered the accessible areas with plastic. We secured the site and left at 600PM. Security arrived at 600PM.	
1121 Loader (LDRRT)(CAT)(2378)	12	12	12	12	12	12		72		
1221 Loader (LDRRT)(CAT)(2382H)	12	12	12	12	12	12		72		
Water Truck 567 (TRUCK)(T&T)(20-28)	12	12	12	12	12	12		72		
CX 470 Excavator (HCECL)(CAT)(0360)	12	12	12	12	12	12		72		
480 Excavator (HCECL)(CAT)(0360)	12	12	12	12	12	12		72		
Water Buffalo 286-T (TRUCK)(T&T)(00-06)	12	12	12	12	12	12		72		
Pressure Washer 290-T (TRUCK)(T&T)(00-06)	12	12	12	12	12	12		72		
Light Tower LT-38	12	12	12	12	12	12		72		Friday 2FEB18- AIS arrived onsite at 0600. Northwestern area of the site will continue to be designated for the Ventura fire cleanup staging area. Held tailgate meeting and ran heavy equipment checks on the equipment. Today we had 0 import or export trucks. The day was spent segregating soil from the large northern stockpiles. Due to the large amount of debris, we had all hands on deck hand picking material from the piles. Since some of the stockpiles are unstable, we only covered the accessible areas with plastic. We secured the site and left at 600PM. Security arrived at 600PM.
Light Tower LT-28	12	12	12	12	12	12		72		
Light Tower LT-29	12	12	12	12	12	12		72		
Light Tower LT-55	12	12	12	12	12	12		72		
Light Tower LT-60	12	12	12	12	12	12		72		
1 Ton SuperDuty Truck (8 total) (TRUCK)(T&T)(06-12)	96	96	96	96	84	96		564		
Emergency Response Trailer 234-T (TRUCK)(T&T)(06-12)	12	12	12	12	12	12		72		
CX290 Excavator (HCECL)(CAT)(0335)	12	12	12	12	12	12		72		
Signal Tower 375	12	12	12	12	12	12		72		
Signal Tower 362	12	12	12	12	12	12		72		
Signal Tower 401	12	12	12	12	12	12		72		
Signal Tower 338	12	12	12	12	12	12		72		
700 MM Cones (TRAF)(2TC)(D100)	12	12	12	12	12	12		72		
ERU 453 (TRUCK)(T&T)(12-20)	12	12	12	12	12	12		72		
Gear Truck 548 (TRUCK)(T&T)(20-28)	12	12	12	12	12	12		72		
Street Sweeper	12	12	6.5	8	4	0		42.5		
Trucks imported	39	7	35	0	0	0		81		
Estimated Cubic Yards Imported	702	126	630	0	0	0		1458		
Trucks exported	97	105	72	19	0	0		293		
Estimated Cubic Yards Exported	1746	1890	1296	342	0	0		5274		
Rolls of plastic to cover stockpiles	0	2	0	2	0	0		4		
Loads of 3" base rock imported for road repair								0		
Delivery plastic rolls for stockpile management								0		
								0		
Denotes subcontractor work										

Stephanie/Mustafa Signature

Ventura City/County Recovery

Debris Removal Steps

- Hazardous Materials
- Site Assessment
- Asbestos Survey and Removal
- Vehicles / Chimneys
- Metals
- Ash/Debris
- Concrete
- Soil Confirmation Sampling
- Erosion Control
- Final Inspection



Ventura City/County Recovery

- Incident Status Summary (02/19/2018)
 - **676** - Sites registered for the removal project
 - **7** - Sites withdrawn from program (self-certification)
 - **13** - Sites not eligible
 - **657** - Sites assessed
 - **651** - Asbestos surveys completed
 - **138** - Sites with bulk asbestos containing material
 - **100** - Sites abated of bulk asbestos containing material
 - **155** - Number of parcels with debris removal completed
 - **43** - Sample results approved
 - **5** - Erosion control completed (including waived thus far)
 - **2** - Approved for redevelopment



Ventura City/County Recovery

Damaged property.



Ventura City/County Recovery

Damaged property.



Ventura City/County Recovery

Destroyed property.



Ventura City/County Recovery

Destroyed property.



Ventura City/County Recovery

Destroyed property.



Ventura City/County Recovery

Destroyed property.

WARNING!!!

Due to the "Thomas Fire", this area may be dangerous. If you enter this area for any unauthorized reason, whether as a pedestrian or in a vehicle, you are doing so at your own risk. Under California law, the City of San Buenaventura will not be liable, and/or will be immune from liability, for any injuries or damages you incur as a result of entering this area.

See California Government Code § 810, et seq.



Ventura City/County Recovery

Air monitoring station.



Ventura City/County Recovery

Crew working with monitor.



Ventura City/County Recovery

Property with initial debris removal completed.

Questions and Discussion

Ken DaRosa,
Chief Deputy Director
CalRecycle

ken.darosa@calrecycle.ca.gov

916.341.6544

