



El Dorado County Storm Presentation

Board of Supervisors Meeting
2/27/17



Presentation Overview

- Sheriff's Office of Emergency Services - storms, disaster declarations, and possible reimbursement
- CDA Transportation Division - road damage & repair costs
- Parks and Trails - park and trail damage & repair costs
- CDA Environmental Management Division - Union Mine Landfill damage & repair costs
- Provide timeframe to return to the Board when there is more information



Storms

■ Four major storm systems in 2017

- Storm #1 – January 3rd-12th
- Storm #2 – January 18th – 23rd
- Storm # 3 – February 1st – 7th
- Storm # 4 – February 16th - ?



Emergency Declarations

- 1st Proclamation of Local Emergency & Request for Governor State of Emergency – January 10th (Storm #1)
- 1st Proclamation of State Emergency & Request for Federal Assistance— January 23rd (Storm #1)



Emergency Declarations

- 2nd Proclamation of Local Emergency & Request for Governor to Proclaim State of Emergency – February 14th (Storm #2, #3, and #4)
- FEMA – Approves Federal Assistance for January Storm #1 – February 23rd
- 2nd Proclamation awaiting State and Federal Proclamations



Storms and Emergency Declarations

- **Things to remember:**

- **Reimbursement due to damage to County infrastructure is not guaranteed yet for any of the storms**
- Currently working with the State and Federal governments to obtain reimbursement
- Match amounts for the County have not been determined yet



Storms and Emergency Declarations

- The storm events and damage continue to occur so damage assessment numbers are increasing
- On pace for significant rain and snow year – spring could bring large run off (current snow pack nearly 200%)



Sheriff's Office of Emergency Services

- 17,000 sand bags before the storms
- 65,000 sand bags were purchased during the storms
- 25,000 sand bags are left and can be found at the published sand bag locations
- Transportation Division - 1200 tons of sand



Transportation Road Damage

- Hundreds of trees down





Storms and Emergency Declarations

- 50 to 100 slides





Transportation Road Damage

- Flooded roads
- Debris removal
- Keeping drainage flowing



Transportation Road Damage

- Hackomiller Road – Complete Fix \$30,000





Transportation Road Damage

- General Storm Cleanup - \$250,000
- Rock Creek Road – Slides - \$27,000



Transportation Road Damage

- Cosumnes Mine Road Bridge - \$1.1 million





Transportation Road Damage

- Cosumnes Mine Road Slips (2) - \$2.9 million





Transportation Road Damage

- Grizzly Flat Road - \$507,000





Transportation Road Damage

- Grizzly Flat Road Temporary Fix





Transportation Road Damage

- Mt. Aukum Road – \$1.3 million





Transportation Road Damage

- Bucks Bar Road - \$400,000





Transportation Road Damage

- Bucks Bar Road – Quick Fix





Transportation Road Damage

- Starkes Grade Road - \$500,000





Transportation Road Damage

- Newtown Road - \$500,000





Transportation Road Damage

- Newtown Road – Reason for partial closure





Transportation Road Damage

- Fort Jim Road - \$920,000





Transportation Road Damage

- Fort Jim Road – 120" culvert





Transportation Road Damage

- Airport Road - \$255,000





Transportation Road Damage

- Mosquito Road - \$1 million





Transportation Road Damage

- Mosquito Road





Transportation Road Damage

- Peavine Ridge Road - \$740,000





Transportation Road Damage

- Kyburz - \$200,000





Transportation Road Damage

- Arapahoe Road - \$50,000





Transportation Road Damage - Snow

- Lake Tahoe area had major snow storms
 - Two back to back
 - Snow was stacked everywhere
 - Issues plowing due to down trees and down power lines





Transportation Road Damage - Snow

- Then it began to rain
 - Drainage channels were choked with snow
 - Flooding occurred





Transportation Road Damage

- Cable Road – Culvert damage - \$300,000
- Green Valley Road – Slip - \$1.2 million
- Happy Valley Road – Slip - \$110,000
- Sciaroni Road – Slip - \$850,000
- String Canyon Road – Slip - \$533,000
- White Meadows Road – Slip/slump - \$655,000
- Elks Club Road – Failed culvert - \$210,000



Transportation Road Damage – Priorities

■ Priority 1

- Road closures full or partial with High ADT
- Possibility of a road closure with no other way out
- Slips on roads with High ADT

■ Priority 2

- Slips with lower levels of traffic
- Road closures with easy way out on either side and medium ADT
- Road closures with lower ADT and long way around

■ Priority 3

- Roads with very low ADT
- Roads closures with low ADT and an easy way out



Transportation Road Damage – Time Frames

- Maintenance – As soon as possible and weather allows
- Simple fix and design done in house – Spring
- Slips with Geotech needed and/or outside design consultant – Summer/Fall
- Culverts with Geotech needed and/or outside design consultant – Summer

*** Reimbursement has not been guaranteed for any event – these are only possible projections ***



Twenty Two Emergency Projects - 14.3 Million

	Project	Comments	Priority	Geotech Required	Design Consultant Required	To BOS to Advise	Construction Starts	Damage Description	FEMA/OES or FHWA Eligible
1	Airport Road		2	Yes	Yes	Summer	Summer/Fall	Slip below road	\$255,000
2	Arapahoe Street (SLT)	Road Closed	2			Maintenance	May/June	Sink hole	\$50,000
3	Bucks Bar Rd	Detour for Mt Aukum - Temporary Repair Completed	1	Yes		March	May - After Mt Aukum is Complete	Sink hole	\$400,000
4	Cable Road		2			March	April Weather Permitting	Culvert damage	\$305,000
5	Cosumnes Mine Rd 1	Road Closed	2	Yes	Yes	Summer	Summer/Fall	Slip below road	\$1,796,750
6	Cosumnes Mine Rd 2	Road Closed	2	Yes	Yes	Summer	Summer/Fall	Slip below road	\$1,096,750
7	Cosumnes Mine Rd Bridge	Road Closed	2	Yes	Yes	Summer	Summer/Fall	Bridge approach wash out	\$1,109,250
8	Elks Club Road	Road Closed	1			Summer	Summer	Culvert Failure	\$210,000
9	Fort Jim Rd (1/5/17)	Road Closed	1	Yes	Yes	May	Summer	Culvert damage	\$920,000
10	Green Valley Rd		1	Yes	Yes	Summer	Summer/Fall	Slip below road	\$1,205,000
11	Grizzly Flat Rd		1			March	Summer	Culvert damage+slip below road	\$506,750
12	Hackomiller Rd	Work Completed	2			Maintenance Complete		Culvert+ road damage	\$30,000
13	Happy Valley Rd	Temporary Repair Completed	3	Yes	Yes	Summer	Summer/Fall	Slip below road	\$110,000
14	Kyburz Dr		3			Coordinate with Caltrans	Coordinate with Caltrans	Slide dumped on road	\$200,000
15	Mosquito Rd	Road Closed	1	Yes	Yes	Summer	Summer/Fall	Culvert damage	\$1,005,000
16	Mt Aukum Rd	Road Closed	1	Yes		March	April	Sink hole	\$1,310,000
17	Newtown Rd	Partial Closure	1	Yes	Yes	Summer	Summer/Fall	Slip below road	\$505,000
18	Sciaroni Rd		3			Maintenance	Spring/Summer	Slip below road	\$849,750
19	String Canyon Rd		2			March	Summer	Slip below road	\$532,500
20	Starkes Grade Rd	Road Closed	1	Yes	Yes	Summer	Summer/Fall	Slip below road	\$500,000
21	White Meadows Rd		3			Maintenance	Spring/Summer	Slide dumped on and shifted road	\$655,000
22	Peavine Ridge Rd	Road Closed	3	Yes	Yes	Summer/Fall	2018	Slip below road+culvert damage	\$740,000
								Totals	\$14,291,750
								FEMA/OES Total	\$10,616,750
								FHWA Total	\$3,675,000
								FEMA Potential Funding	\$ 7,962,563
								FHWA Potential Funding	\$ 3,254,720
								OES Potential Funding	\$ 2,306,783
								*County Potential Funding	\$768,928



Parks Damage – Henningsen Lotus Park





Parks Damage – Henningsen Lotus Park



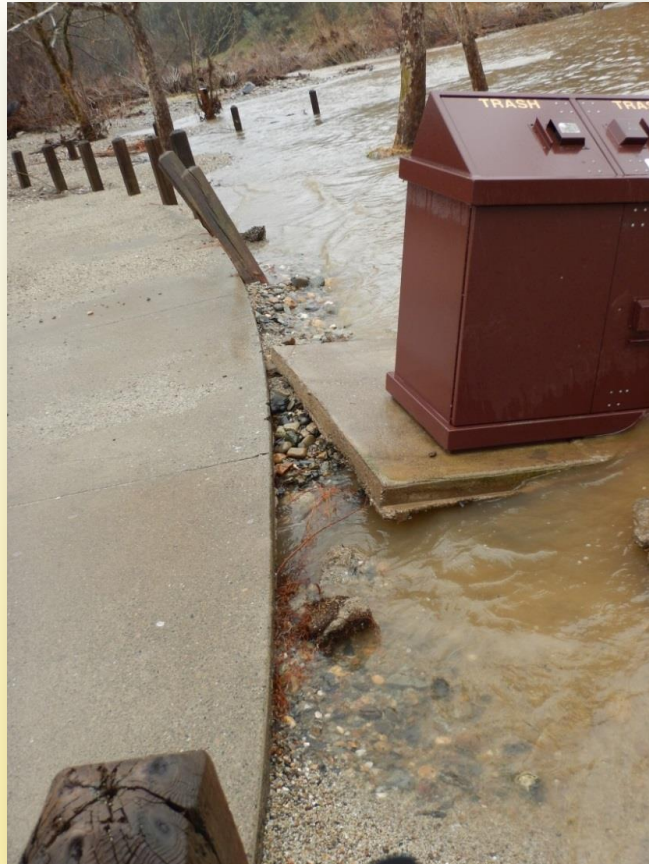


Parks Damage – Henningsen Lotus Park





Parks Damage – Henningsen Lotus Park





Trail Damage – El Dorado Trail





Trail Damage – Further Damage

- SPTC Creek Bridge and SPTC Shingle Springs washout





Trail Damage – Further Damage





Parks and Trail – Damage Estimates

- January damage estimates - \$128,700
- February damage estimates - \$40,400
- Department will return to the Board on 3/7 with a request to use HLP Fund Balance to begin repairs at park
- Pursuing insurance claim and State and Federal reimbursement



Union Mine Landfill – Storm Damage





Union Mine Landfill – Storm Damage





Union Mine Landfill – Storm Damage






Storm Damage 2017

Storm damage to date at the Union Mine Disposal Facility.

Legend

 Damage Locations



Google earth

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Union Mine Landfill – Damage Estimates

- \$40,000 – Damage to access road
- \$170,000 – Replace the south storm water sedimentation basin dam and repair the overflow
- \$215,000 – General damage to the landfill
- Will wait until late spring or summer for major repairs so the site can dry out



What's Next

- Departments work with Sheriff's Office of Emergency Services and CAO
- Complete new Individual Damage Assessments as discovered and submit to Sheriff's OES
- Update previous Individual Damage Assessments with new damage and submit to Sheriff's OES
- Comeback to the Board with possible steps that could expedite the recovery process – in weeks – Transportation researching
- Comeback to the Board when reimbursement has been guaranteed along with rates – waiting for State and Feds
 - Remember that reimbursement acceptance is different for the different declared events