

**EXHIBIT B SAN MATEO COUNTY 2017 WINTER STORMS DAMAGES****County Operational Area – Cities, Towns, Special Districts and Private Nonprofit Associations**

Storms beginning January 3, 2017 and Continuing

June 27, 2017 Board of Supervisors Meeting (Not a comprehensive list)

<b>SAN MATEO COUNTY OPERATIONAL AREA DAMAGE LOCATIONS</b>		
Jurisdiction	Incident Period	Damage Description
Town of Portola Valley	Feb 2017	Debris Removal from multiple mudslides, slipouts and downed trees into roadway on Alpine Road between Willowbrook Drive and Town limits towards Joaquin Road. Alpine Road had to be closed until trees, mud, until debris was removed. However, continuous rains caused further mud flows onto the roadway. Hypersaturation of the hillsides and creek banks caused slipouts which destabilized the roadway in 3 areas
City of Millbrae	Feb 2017	(2) Mudslides 1) Located across from 516 Richmond Drive a large mudslide with a width of some 60 feet caused earthen wet mud and vegetation from a steep slope presumed unstable flow its debris onto Richmond Drive forcing a road closure in both directions; which is still in effect. 2) Located along Skyline Blvd near Larkspur, a small mudslide affects the Northbound lane and Bike Lane of Skyline Boulevard. City is still assessing engineering, geology and permanent work options. Initial Damage Estimate received 3/15/2017
City of San Bruno	Jan 2017  Feb 2017	Emergency Protective Measures on Jan 20 and Jan 22, Floodfighting at homes located at 1910 and 1920 Spyglass Street, caused by city storm drain failure.  (2) Emergency Protective Measures (a) Sink hole response to 1104 Cypress Road on Feb 13, (b) Hole at same road on Feb 14. Temporary/plate/asphalt repairs.
El Granada Community Services District	Feb 2017	PNP (1) Damage Site, sewer piping across creek, affixed to an abandoned pedestrian bridge. Mirada Bridge deteriorating. Initial Damage Estimates for repair are \$350,000 to secure and reroute pipe to maintain operating sewer.
Middleton Tract Road Association La Honda	Feb 2017	PNP Road Association La Honda with major damages to their private road, serving emergency services and a population of 75 with 25 structures of 50 parcels. Initial Damage is estimated at \$1.5 million.
Butano Canyon Mutual Water Company, Pescadero	Feb 2017	PNP Mutual Community Water System in Pescadero with Major road damages from storms at Redwood Avenue. Road serves water services, emergency services and about some 20 residents. Initial Damage Estimates are being estimated and details will be available soon.

**EXHIBIT C**

**SAN MATEO COUNTY 2017 WINTER STORMS DAMAGES**

**Roads/Fire Roads Damages to San Mateo County Forestlands**

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Site ID	Owner	Road	Location	Problem	Road Type	Area Damaged	Volume of Material to Remove (yds)	Equipment needed	Equipment Time	Engine ring Needed	Description of fix	DFW	CEQA	THP Related	Assets or Resources Effected	Priority	Damage/Loss Estimate \$	Initial Repair Estimate \$
AR01	MROSD	Alpine Road	Coal Creek OSP	Fillslope Failure	Seasonal	100x20'	300	Dozer, Excavator	3 Days	Y	Remove slide material and widen road into bank to regain running surface.	N	Y	N	Recreational, Fire/Rescue access to Skyline Blvd and Coal Mine Ridge	6	40K	100K
BK01	Baranncha Knolls HOA	Baranncha Knolls Rd.	Bottom of Access Road	Cutbank failure with trees onto road	Perm gravel	40x50'	35	D6	1 Day	N	Remove and stabilize slide material.	N	Road Maintenance	N	Failure blocks Fire/Rescue and Residence access into rural subdivision.	7	10K	15K
CC01	SMBSA	Watson Road	Below Butano Ck crossing	Cutbank failure with Redwood stump onto road	Seasonal	30x40'	100	D6	4 hours	N	Move stump to landing, Incorporate fill into road surface.	N	Road Maintenance	N	Failure blocks Fire/Rescue, Recreational access into Butano SP	6	5K	50K
CC02	State Parks	Watson Road	West of Mundell Outpost	Cutbank failure onto road	Seasonal	30x10x5	40	D6	4 hours	N	Move stump to landing, Incorporate fill into road surface.	N	Road Maintenance	N	Failure blocks Fire/Rescue, Recreational access into Butano SP	5	5K	5K
CTT01	State Parks	Chalks TT	Southwest of Sandy Pt.	Fill failure below culvert outlet. Small Cutbank failure onto road.	Seasonal	30 x 20 x 12	25	D6	4 hours	N	Push loose fill into void below pipe outlet. Place flexible plastic culvert as downspout.	N	Road Maintenance	N	Failure blocks Fire/Rescue response south from Sandy Point	7	5K	20K
GC01	Redwood Empire	Gazos Creek	GC Road below gates	Cutbank Failure	Seasonal	20x15	15	D6, Loader	2 hours	N	Remove and stabilize fill.	N	N	N	This failure blocks access to Sandy Point and Big Basin from coast.	6	3K	3K
GC02	State Parks	Gazos Creek	GC Road east of Mountain Camp	Cutbank Failure	Seasonal	40x50'	400	D6, Loader	3 Days	N	Remove and stabilize fill.	N	N	N	This failure blocks access to Sandy Point and Big Basin from coast.	7	10K	5K
GC03	State Parks	Gazos Creek	1 mile west of Mountain Camp	Cutbank Failure upslope from road.	Perm Paved	100x150'	50	Excavator, loader	1 Day	Y	Remove and stabilize fill.	N	Y	N	This failure blocks fire, rescue and commercial access to Western Big Basin SP, Mountain Camp, Baranncha Knolls residents and Redwood Empire	7	10K	20K
GC04	State Parks	Gazos Creek	.4 mile west of Mountain Camp	Fill Failure into creek. 1 land of asphalt gone.	Perm Paved	15x30'		Excavator Dozer, Excavator, Grader	2 Days	Y	Either cut into bank and realign road or install boulders in creek and re-establish fill slope and pave.	Y	Road Maintenance	N	This failure blocks fire, rescue and commercial access to Western Big Basin SP, Mountain Camp, Baranncha Knolls residents and Redwood Empire	7	25K	50K
LH01	MROSD	Harrington Ck Trail	LaHonda OSP	Cutslope Failure	Seasonal	5 acres		Dozer, Excavator, Grader	5 Days	Y	Reroute 1/2 mile of road in more appropriate location.	N	Y	N	Fire/Rescue access to LaHonda Community	3	100K	300K
LH02	MROSD	Red Barn Spur	LaHonda OSP	Cutbank Failure	Seasonal	3 acres		Dozer, Excavator	3 Days	Y	Reroute road in more appropriate location.	N	Y	N	Grazing access, Fire Escape for ranches north of LaHonda, Suppression above LaHonda Space above LaHonda	3	250K	500K
MH01	MROSD	Mindego Hill Trail	Russian Ridge OSP	Fillslope Failure	Seasonal	200x20'	200	Dozer, Excavator	3 days	Y	Excavate cut slope of road to regain full road width.	N	Road Maintenance	N	Access to Mindego Hill for cattle, recreation and	6	50K	100K
OCK01	Redtree	Bicentennial Road	East of Gate 20	Cutbank Failure with trees onto road	Seasonal	20x50'	40	Excavator, D6	2 Days	N	Clear trees, stabilize road and regrade. Incorporate fill into road surface.	N	Road Maintenance	N	Failure blocks Fire/Rescue access into Oil Creek drainage	5	5K	25K
OCK02	Redtree	Oil Ridge Road	Gate 17	Cut and Fill Failure	Seasonal	30x10	15	D6	1 Day	N	Remove and stabilize slide material. Realign road into bank. Drain away from fill failure.	N	Road Maintenance	N	Failure blocks Fire/Rescue response into main Timberland and access to LZ.	6	10K	5K
OCK03	Redtree	Harwood Road	Harwood Road	Cutbank Failure into drainage across road	Seasonal	40x80'	60	Excavator, loader	2 Days	N	Remove and stabilize slide material. Clear bridge access and regrade road.	?	Road Maintenance	N	Failure blocks Fire/Rescue response into main Timberland and access to LZ.	5	10K	35K
PCK01	MROSD	Purisima Ck Road	Purisima OSP	Fillslope Failure	Seasonal	100 x 30'		Dozer, Excavator	3 Days	Y	Build Retaining Wall in Creek	Y	Road Maintenance	N	Recreational, Fire/Rescue access to Kings Mtn Community	3	50K	500K
PHR 1	San Mateo County Parks	Pescadero Haul Road (PHR)	Harwood Ck	Fill Failure of old Humboldt Crossing	Seasonal gravel	10 x 50'	15	Loader, excavator, grader	3 Days	N	Replace crossing with 6' culvert. Replace fill, compact and gravel surface.	N	Road Maintenance	N	This failure blocks vehicle access, fire, admin, rescue to Pescadero Co. Park	6	10K	50K
PHR 2	San Mateo County Parks	PHR	Dark Gulch	Fill Failure of old Humboldt Crossing	Seasonal gravel	150'x75x50'	75	Loader, excavator, grader	14 Days	Y	Pull failed fill and stabilize. Reroute of road upslope with new crossing in more appropriate location.	Y	Y	N	This failure blocks vehicle access, fire, admin, rescue to Pescadero Co. Park	9	500K	1.5M
PHR 3	San Mateo County Parks	PHR	Keystone Ck.	Fill failure damaged 30" cmp below fill.	Seasonal gravel	40x40'	50	Excavator	3 Days	N	Pull failed fill/debris that destroyed cmp. Stabilize fillslope. Replace damaged section of CMP.	Y	Road Maintenance	N	If this isn't fixed, fill and road will fail. Will block fire/rescue and admin access to Pescadero Co. and Portola State Park	8	10K	20K
PHR 4	San Mateo County Parks	PHR	Fall Ck.	Slope failure above and below road	Seasonal gravel	2.25 ac	0	D6	14 Days	N	Reroute of road upslope with new crossing in more appropriate location.	N	Road Maintenance	N	This failure blocks vehicle access, fire, admin, rescue to Pescadero Co. and Portola State Park	9	150K	1.5M
PHR 5	San Mateo County Parks	PHR	Trestle Ck.	Fill failure below bridge abutments	Seasonal gravel	15x40'	20	D6, Excavator, loader	14 Days	Y	Pull bridge, realign crossing to shorten length, install concrete abutment blocks, reset bridge.	Y	Y	N	This failure blocks vehicle access, fire, admin, rescue to Pescadero Co. and Portola State Park	9	30K	200K
WH01	MROSD	Middle Road	Windy Hill OSP	Fillslope Failure	Seasonal	1/8 acre	300	Dozer, Excavator	3 Days	Y	Remove slide material and widen road into bank to regain running surface.	N	Y	N	Fire Escape to Lauriston Estate, Suppression access for Open Space above Portola Valley	6	50K	100K