



Federal Emergency Management Agency

Region IX Building 105
Presidio of San Francisco, California 94129

JAN 13 1992

Mr. Charles F. Wynne
Governor's Authorized Representative
Office of Emergency Services
2800 Meadowview Road
Sacramento, California 95832-1499

Dear Mr. Wynne:

Subject: Short-Term Hazard Mitigation Plan Report, FEMA-758-DR

Enclosed is a report on the status of applicants under the Short-Term Hazard Mitigation Plan (HMP) for the Sacramento/San Joaquin Delta.

A joint field inspection of forty-seven of the fifty-two Districts participating in the HMP was made by OES and FEMA personnel during August, October and November 1991. The inspection revealed that only four of the forty-seven Districts inspected have complied with the HMP criteria contained in Amendment No. 5 to the FEMA/State Agreement. The deadline for the Districts to comply with the HMP was September 10, 1991.

The main reason for non-compliance with HMP criteria was the lack of all-weather roads. Other reasons were blocked levee crown access, levee crown elevations below HMP criteria, and unstable foundation material that delayed completion of backfilling subsided areas.

I recommend that we meet at the earliest possible date to discuss drafting an additional amendment to the FEMA/State Agreement. The main items to be considered in our discussion should include, but not be limited to, the following:

- o Scheduling a new date for completion of the required short-term hazard mitigation work
- o Specific criteria for all-weather access roads
- o Removal or means of bypassing encroachments that block levee crown access

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- o Removal of retaining walls, etc., that encroach into the HMP standard levee section
- o Required surveys

Please advise Daryl Wait at 415-923-7284 of a convenient date for this meeting.

Sincerely,

A handwritten signature in cursive script, appearing to read "A.R. Kite".

A.R. Kite, Chief
Disaster Assistance Programs

Enclosure

cc: Mary Johannis, DWR

HAZARD MITIGATION PLAN
STATUS OF DELTA LEVEES
758-DR

Field	Project	Total Dirt	Less than HMP	Less than 16"	Less than 2:1	Less than 1-1/2:1	Blocked Foundation	Last Complete	X-Section	As-Built	X-Section Notes Meets				
Inspection District	Application	Levee Road	Crown Elevation	Crown Width	Landward Slope	Seaward Slope	Access Instability	Survey	Interval	Survey	Interval HMP				
Date	No.	Miles	Miles	Miles	Miles	Miles	Sites Feet	Date	Feet	Date	Feet				
10/31/91	2020 Bacon Island	000-92100	14.3	1.4	0.2	0.2	0.2	4	11/87	500	09,90	11	no		
10/24/91	2042 Bishop Island	000-92102	0.3	0.2	3.1	3.1	3.1	0	9/89	1000			no		
	A developer is currently constructing a complete new levee system to provide 3' of freeboard above the 100 yr. HFE														
10/22/91	756 Bouldin Island	000-92103	10.0	17.9	1.3	1.3	1.3	1	9/81	11	0/91	500	31	no	
10/21/91	2033 Brack Tract	000-92104	11.5	11.5	3.3	3.3	3.3	0	0/86	1000	7/89	1000		no	
11/07/91	2059 Bradford Island	000-92105	7.0	0.1	0.1	0.1	0.1	2	0/87	1000				no	
10/22/91	LMD Brannan Andrus Is	000-92106	0.7	0	0	0	0	1	6/89	500/1000				no	
10/31/91	800 Byron Tract	000-92107	9.7	0	0	0	0	1	12/88-2/89	500				no	
10/18/91	2111 Deadhorse Island	000-92108	2.0	0	0.01	0.01	0.01	1	1/87	500				no	
10/23/91	2029 Empire Tract	000-92109	10.3	0	0.0	0.0	0.0	0	26,900	7/89		11		no	
11/01/91	2025 Holland Tract	000-92110	11.0	0.3	0	0	0	1	7/90	500				no	
11/00/91	799 Hotchkiss Tract	000-92111	6.3	3.1	6 Sites	6 Sites	45 Retaining walls	6 Sites	9/87	1000	90,91	1000	31	no	
10/30/91	2030 Cover Jones Tract	000-92112	0.0	0	0.3	0.3	0.3	1	4/87	1000	90	1000		no	
00/13/91	2039 Upper Jones Tract	000-92113	4.0	0	0.01	0.01	0.01	0	7/86-8/87	1000			61	no	
10/23/91	2044 King Island	000-92114	9.1	0.1	0.6	0.6	0.6	0	7/89	500/1000	90,91	500 N.C.		no	
10/31/91	2027 Mandeville Island	000-92115	14.3	0	1.0	1.0	1.0	1	5/86-8/86	500	12/90-6/91	11		no	
10/29/91	2030 McDonald Island	000-92116	11.7	0.9	0	0.18	0	2	5/88-7/88-10/88	500	71	71		no	
	2011 Medford Island	000-92117			Not inspected										
11/01/91	2024 Orwood Tract	000-92119	6.3	1.2	0	0	0	2	6/87	1000	0/91	11		no	
11/01/91	2036 Palm Tract	000-92120	7.5	7.4	0	0	0	0	7/90	1000				no	
00/14/91	2037 Rindge Tract	000-92122	15.0	0	0	0	0	0	7/90	500 +				YES	
10/29/91	607 Lover Roberts Tract	000-92123	14.6	1.3	0	0	0	7	4/87	1000	9/90-10/90	11 1020		no	
10/20/91	544 Upper Roberts Tract	000-92125	4.9	0.1	0	0	0	1	2/87	1000				no	
10/23/91	341 Sherman Island	000-92126	9.9	0	0.2	0.2	0.2	0	14,800	11/89	1000	90	11	no	
00/15/91	30 Stanten Island	000-92127	25.4	16.7	Need As-Built Survey to determine if recent construction meets HMP				3/90	1000 +					
10/21/91	540 Terminus Tract	000-92128	16.1	3.6	1.4	1.4	1.4	1	0/87	1000	0/91	11		no	
10/22/91	1601 Twitchell Island	000-92129	9.4	1.0	0.5	0.5	0.5	0	4,200	4/89	500/1000	9/90-1/91	11	no	
10/17/91	563 Tyler Island	000-92130	10.7	0	0	0	0	0	3/89	500	7/91	500 N.C.		YES	
11/04/91	1 Union Island East	000-92131	13.0	11.6	0	0	0	0	3/87-6/87	1000	12/88-8/89-7/91	500 + 11		no	
11/05/91	2 Union Island West	000-92132	16.2	11.7	0	0	0	1	6/95	1000	10/91	11		no	
10/24/91	2023 Venice Island	000-92134	12.3	1.4	0	0	0	0	0/85	1000	07,88,89,90,91	11		no	
00/12/91	2640 Victoria Island	000-92135	15.1	15.1	0.02	0.02	0.02	0	9/90-3/90	500				no	
11/07/91	2026 Yebb Tract	000-92136	12.0	0.4	0	0	0	0	9/89	500	6/90	500		no	
10/31/91	2072 Woodvard Island	000-92137	0.0	2.2	2.0	2.0	2.0	0	12/89	11				no	
10/17/91	348 New Hope Tract	000-92149	17.5	6.6	2.7	2.7	2.7	2	2/90	1000				no	
11/06/91	773 Fabin Tract	000-92160	10.0	13.5	0	0	0	1	7/89	1000			01	no	

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NOTES

- 11 Profile only.
- 21 Cross Sections Only.
- 31 In Process of raising levee crown and dressing slopes at low areas indicated on 7/91 survey.
- 41 Subistence reach is along west side of island.
- 51 Locations profiles and cross sections of sites on 9/91 surveys.
- 61 Does not include (tapper SLU).
- 71 As built date 5/90, 1/91, 2/91, 4/91 & 500'.
- 81 Some reaches of levee crown have unimproved roadway.
- 91 Levee crown not accessible due to housing.
- 101 Refer to profiles and cross sections on 9/91 as-built survey for site locations.
- 111 950 ft of levee crown not drivable- extremely rough road.
- 121 1.7 miles- levee crown overgrown with blackberries, trees and other wild growth that obstructs access.
- 131 East levee back (levee) not included in HMP.
- 141 Profile only.

11/07/91	2115 Fay Island	000-92161	1.54	1.3	0.3	0.3	0.3	0	0	0	0	500	2/91	5/90	0	0	0	0	NO
11/05/91	1007 Maglee Tract	000-92165	0.3	0.3	0	0	0	0	0	0	0	1000	6/07	6/07	5	0	0	0	NO
11/05/91	2090 Quilby Island	000-92166										500	2/91	2/91		housing	0	0	NO
10/28/91	1615 Smith Tract	000-92168	2.0	0	0	0	0	0	0	0	0	500	2/91	2/91		0	0	0	NO
11/05/91	2089 Stark Tract	000-92169	0.7	0	0	0	0	0	0	0	0	1000	6/07	6/07		0	0	0	YES
10/18/91	549 Walnut Grove	000-92170																	
11/08/91	Mid Melnick Island	000-92172	11.5	3.3	4 Sites	4 Sites	13 Sites	4 Sites	0	0	150	1000	9/91	9/07	0	4 Sites	0	0	NO
11/08/91	2058 Pescadero	000-92183	2.2	2.2	0	0	0	0	0	0	0	1000							NO
10/18/91	551 Pearson District	000-92214	7.25	6.6	0	0	0	0	0	0	0	500		8/08	0	0	0	0	NO
10/18/91	2086 Canal Ranch	000-92216	7.5	3.4	3.3	3.3	5.3	5.3	0	0	0	1000		7/86	0	0	0	0	NO
10/21/91	2114 Rio Blanco Tract	000-92218	3.4	3.0	0.02	0.02	0.02	0.02	0	0	0	1000	7/91	5/08	0	0	0	0	NO
10/16/91	813 Emerald Club	000-92227	4.2	0.3	0	0	0	0	0	0	0	1000		5/85	0	0	0	0	NO
10/21/91	2113 Shima Tract	000-92229	0.6	0	0	0	0	0	0	0	0	1000		5/90	0	0	0	0	NO
10/16/91	1002 Glenville	000-92231	7.4	3.0	0.07	0	0	0	0	0	0	1000	9/09	9/85	1	0	0	0	YES
10/16/91	2118 LLI Mandeville IS	000-92232	4.5		NOT Inspected														
11/05/91	2117 Coney Island	000-92240	5.4	0.1	0.2	0.2	0.2	0.2	0	0	0	500		5/90	1	0.2	0	0	NO
10/28/91	2119 Knight-Eliwood Tr	000-92245	7.1	4.8	0	0	0	0	0	0	0	1000	91	8/85	0	0	0	0	NO

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KSA Engineering			
RD or Is. Name	Meets Geometry	Meets All Weather Surface Roads	Comments
Bacon	Yes	Yes	Access by four wheel drive during Jan and March Storms
Bishop	Yes	Yes	Access by four wheel drive during Jan and March Storms
Brack	No	Yes	Hog Slough side few sections not up to HMP
Byron	Yes	Yes	Access by four wheel drive during Jan and March Storms
Coney	Yes	Yes	Access by four wheel drive during Jan and March Storms
Deadhorse	Yes	Yes	Access by four wheel drive during Jan and March Storms
Fay	No	Yes	South side couldn't get dredging permit
Glanville	Yes	Yes	Access by four wheel drive during Jan and March Storms
L. Mandeville	Yes	Yes	Access by four wheel drive during Jan and March Storms
Mandeville	Yes	Yes	Access by four wheel drive during Jan and March Storms
McDonald	Yes	Yes	Access by four wheel drive during Jan and March Storms
Medford	?	Yes	No record of Survey
Pescadero	Yes	Yes	Access by four wheel drive during Jan and March Storms
Quimby	Yes	Yes	Access by four wheel drive during Jan and March Storms
Shima	Yes	Yes	Access by four wheel drive during Jan and March Storms
Smith	Yes	Yes	Access by four wheel drive during Jan and March Storms
Stark	Yes	Yes	Access by four wheel drive during Jan and March Storms
Twitchell	Yes	Yes	Access by four wheel drive during Jan and March Storms
Tyler	Yes	Yes	Access by four wheel drive during Jan and March Storms
Union East	Yes	Yes	Access by four wheel drive during Jan and March Storms
Union West	Yes	Yes	Access by four wheel drive during Jan and March Storms
Venice	Yes	Yes	Access by four wheel drive during Jan and March Storms
Victoria	Yes	Yes	Access by four wheel drive during Jan and March Storms
Wright Elmwood	Yes	Yes	Access by four wheel drive during Jan and March Storms

Jerry Hadley said looking from contractors point of view when everything that is normal operation is disrupted by emergency work the contractor then have to reshuffle priorities and spend money on equipment that would not be used in normal operation and paperwork orders have to be changed and quarry production gets affected and more people are needed to handle emergency work which jutifies price hike for rip-rap from \$19/ ton to \$25/ton.

HMP Summary Status of RD's in the Delta

Murray, Burns and Kienlen (MBK)			
RD or Is. Name	Meets Geometry	Meets All Weather Surface Roads	Comments
Webb	yes	yes	All weather Rd in '94
Holland	yes	no	
McCormack-Wm.	no	no	Restricted by Elevation
King	yes	yes	Meets Geometry '95
Empire	no	yes	Low Spots at Various Locations
Rindge	yes	yes	
Winter	no	no	
Bouldin	yes	no	
Canal Ranch	no	no	
Prospect	?	?	Not in the Program
Pierson	?	?	Not in the Program

Tom Rosten *			
RD or Is. Name	Meets Geometry	Meets All Weather Surface Roads	Comments
Lower Roberts	yes	yes	
Terminus	yes	yes	
Palm	yes	no	
Orwood	yes	no	S.W. Corner need 1 - mile of gravel
Woodward	yes	yes	Access by Ferry
Boggs	yes	yes	
Weber	yes	yes	Fences are problem
Upper Jones	yes	yes	
Lower Jones	yes	yes	
1007	yes	no	getting around is the problem
Fabian	yes	no	getting around is the problem

* Tom Rosten told me that during the January Storm the damages cost was 1/2 ton of bedding rock and 1/2 ton of rip-rap per linear feet. But in March Storm everything is doubled per linear feet.

Informed me that Dutra has increased the price of Rip-Rap to \$25 per ton. He switched over to Ford Construction. They have Quarry in Hogan where it costs \$6.75 for the rip-rap rock and \$9 to deliver by truck and \$1.75 to place.

DCC Engineering			
RD or Is. Name	Meets Geometry	Meets All Weather Surface Roads	Comments
Brannan Andrus	yes	yes	By the Mokelumne River Bridge Ramps are build for crossing