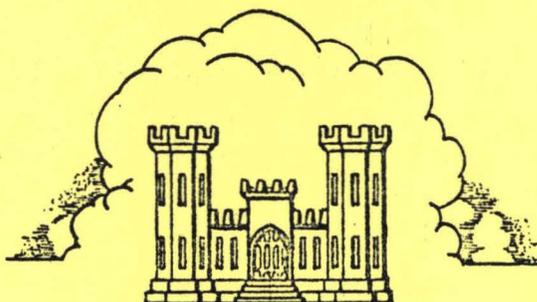


SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL

LOWER SAN JOAQUIN RIVER AND  
TRIBUTARIES PROJECT, CALIFORNIA

UNIT NO. 8

RIGHT BANKS OF OLD RIVER AND SALMON SLOUGH  
WITHIN R. D. NO. 1 AND R. D. NO. 2089



U. S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
SACRAMENTO, CALIFORNIA

*2nd 1*

Corps of Engineers  
US Army

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SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SAN JOAQUIN RIVER AND TRIBUTARIES PROJECT

UNIT NO. 8  
RIGHT BANKS OF OLD RIVER AND SALMON SLOUGH  
WITHIN R.D. NO. 1 AND R.D. NO. 2089

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Sacramento District  
Corps of Engineers  
US Army  
1968

**SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
LOWER SAN JOAQUIN RIVER AND TRIBUTARIES PROJECT, CALIFORNIA**

UNIT NO. 8

RIGHT LEVEE OF OLD RIVER AND SALMON SLOUGH  
WITHIN R.D. NO. 1 AND R.D. NO. 2089

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
Exhibit F	Add copy of letter of transfer dated 3 Dec 1958	25 May 2011
Exhibit F	Add copy of letter of transfer dated 12 Jul 1963	25 May 2011
1-04	Add subparagraph c	25 May 2011
Exhibit B	Add drawing no. SJ-4-112	25 May 2011
Exhibit F	Add copy of letter of transfer dated 14 Feb 2001	25 May 2011
Exhibit F	Add copy of letter of acceptance dated 24 Apr 2001	25 May 2011

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EXHIBITS

<u>Exhibit</u>	<u>Description</u>	
A	Flood Control Regulations - - - - - (Contained in Standard Manual)	Unattached
A-1	Location Map - - - - -	1 Sheet
B	"As Constructed" Drawings - - - - -	Unattached
C	Plates of Suggested Flood Fighting Methods - - - - (Contained in Standard Manual)	Unattached
D	Suggested Check List No. 1 - Levee Inspection Report - - - - - (Contained in Standard Manual)	Unattached
E	Suggested Check List - Levee, Channels and Structures - - - - -	Sheets 1 thru 7
F	Letters of Acceptance by the State Reclamation Board - - - - -	Sheets 1 and 2
G	Suggested Semi-Annual Report Form - - - - -	Sheets 1 and 2

SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SAN JOAQUIN RIVER AND TRIBUTARIES PROJECT

UNIT NO. 8

RIGHT BANKS OF OLD RIVER AND SALMON SLOUGH  
WITHIN R.D. NO. 1 AND R.D. NO. 2089

SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the San Joaquin River and Tributaries Project levee and channel that is located along the right bank of Old River from Middle River to Salmon Slough and the right bank of Salmon Slough from Old River to the Grant Line Canal. The area lies about 5 miles southwest of Stockton and 3-1/2 miles northeast of Tracy, California. Location by levee mileage along the right bank of Old River is from mile 0.00 at Middle River to mile 1.15 at the south boundary of R.D. No. 1 and from 0.00 for Unit No. 1 to mile 1.53 and mile 0.00 to Grant Line Canal mile 1.37 for Unit No. 2. These units are within R.D. No. 2089. The total distance is 4.05 miles. The area lies within the above-mentioned Reclamation Districts in the County of San Joaquin, California, and in the general vicinity as shown on the Location Map, EXHIBIT A-1.

1-02. Project Works. The project works covered by this manual is a part of the Lower San Joaquin River and Tributaries Project as authorized by the Flood Control Act of 22 December 1944, Public Law 534, Seventy-eighth Congress, Second Session, Section 10, and consists of the right bank of Old River and right bank of Salmon Slough between Middle River and Grant Line Canal; a total distance of about 4.05 miles.

1-03. Protection Provided. Levees along Old River and Salmon Slough, as described in this unit, provide direct protection to adjacent agricultural lands within R.D. No. 1 and R.D. 2089 (Union Island). Along Old River and Salmon Slough the adopted flood plane is at elevation 15.4 at head of Middle River, at elevation 13.0 at Paradise Cut and elevation 10.8 at Grant Line Canal. All elevations are referred to mean sea level (1929 adjustment). Levee grade within this unit provides for a freeboard of at least 3 feet above the adopted flood plane profile. Within this unit the project design flood for Old River below Middle River is 15,000 cubic feet per second and for Salmon Slough and Old River below Paradise Cut the flow is 30,000 cubic feet per second.

1-04. Construction Data and Contractor. Work required by the Corps of Engineers to bring levees of this unit to project standards was accomplished under the following contracts:

a. Stone protection on Old River was accomplished under Contract No. DA-04-167-CIVENG-58-6 by Basalt Rock Company, Inc., during the period from 21 August 1957 to 15 December 1958. Specification No. 2331, Drawing No. 7-4-1517.

b. Stone protection along Old River on selected sites was accomplished under Contract No. DA-04-167-CIVENG-63-35 by Pacific Western Construction, Inc., during the period from 25 September 1962 to 9 July 1963. Specification No. 2736, Drawing No. 7-4-1646.

c. Emergency levee repair on the north levee of Old River, Levee Mile 0.31 – 0.35 was completed on 30 November 1997 by Ford Construction Company under Contract No. DACW05-97-C-0130. Specification No. 9893E, Drawing No. SJ-4-112.

1-05. Flood Flows. For purposes of this manual, the term "high water period" shall refer to periods when the water surface in the San Joaquin River reaches or exceeds the reading of 17.5 on the State Department of Water Resources continuous water stage recorder and staff gage located on the right bank of the San Joaquin River immediately downstream from the Mossdale Bridge on US Highway No. 50. Gage is set at USGS mean sea level datum.

1-06. Assurances Provided by Local Interests. Assurance of cooperation by local interests is provided by State Legislation as contained in Chapters 1 and 2, Part 4, Division 5 of the State Water Code (see paragraph 2-02a of the Standard Manual).

1-07. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining this unit was officially accepted by the State Reclamation Board by letters dated 29 December 1958 and 25 October 1963 as shown on the attached copies of letters, EXHIBIT F.

1-08. Inspection Procedure. Since the enactment by State Legislation of Chapter 1528 Statutes of 1947, the Department of Water Resources, State of California, has made semi-annual inspections of all levees of authorized flood control projects in the Sacramento-San Joaquin Drainage Basin pursuant to the Federal Regulations of 16 August 1944 (Title 33), and reports its findings to the local agency, the State Reclamation Board and the Sacramento District, Corps of Engineers, US Army. This activity, initiated pursuant to section 208.10(a) of the Federal Regulations, has in effect provided for transfer from the local agencies to the State Department of Water Resources, the obligation of compliance with Sections 8371, 8372 and 8373 of the Water Code of the State of California. These sections of the Code require the local responsible agencies to submit a report to the State Department of Water Resources on or before 1 June of each year on the condition of the levees within their jurisdiction. Supervisory powers and duties of the Department are applicable to all works of the Lower San Joaquin River and Tributaries Flood Control Project maintained and operated by the local agencies without regard to status of completion, or expenditure of Federal funds on the construction of such works.

The following procedure is used in inspecting the levees of the responsible maintaining agency:

The personnel of the State Department of Water Resources make a detailed inspection in the spring and fall of each year and make a report on any required maintenance. The inspection objectives are to determine if the following items, which are a condensation of Federal Regulations, are being adhered to:

- a. That all brush, trees and wild growth other than sod are removed from the levee crown and slopes.
- b. That all weeds, grass and debris on the levee have been burned during the appropriate season, where not dangerous or impractical.
- c. That all grass and weeds on the levee have been mowed where removal by burning is dangerous or impracticable. This applies only on peat levees or where burning would constitute a hazard to improvements.
- d. That all burrowing animals have been exterminated.
- e. That all caves, sloughs, burrows, holes, slips or other damaged portions of the levee have been repaired.
- f. That all irrigation and drainage structures through the levee are in good working condition.
- g. That no revetment work or riprap have been displaced, washed out or removed.
- h. That the crown of the levee is well shaped and maintained and that unauthorized vehicular travel is restricted.
- i. That stock grazing on the levee is restricted to conditions and seasons when the levee would not be seriously scarred or otherwise damaged thereby.
- j. That encroachments are not being erected on the levee which would hinder travel by authorized patrol vehicles.
- k. Prevent the erection of structures on, additions to, or alterations of, the levee unless authorized by permit from the State Reclamation Board.

Following this detailed inspection a joint field inspection is made with representatives of the responsible maintaining agency and the State Department of Water Resources to review and discuss the inspection report.

Upon completion of the fall inspection, the State Department of Water Resources publishes an annual report entitled, "Status of Project Levee Maintenance" which indicates the degree of proficiency attained by each obligated local agency in providing required maintenance.

SECTION II  
FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees.

a. The levees described in this manual lie along the right banks of Old River and Salmon Slough from Middle River to the Grant Line Canal, a total distance of about 4.05 miles. The levee has been reconstructed to project standards with a minimum crown width of 12 feet. The necessary drainage structures, road approaches, bank protection, and appurtenances were also included in the work. For more complete detail in construction of the above-mentioned levees, refer to the "As Constructed" drawings of EXHIBIT B.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

- (1) Maintenance - paragraph 4-02 of the Standard Manual.
- (2) Suggested Check Lists - EXHIBIT E of this Supplement Manual.
- (3) Operation - paragraph 4-04 of the Standard Manual.
- (4) Special Instructions - paragraph 4-05 of the Standard Manual

2-02. Drainage and Irrigation Structures. Drainage and irrigation structures which extend through the levees are listed as follows:

Levee Mile	Size of Pipe	Other Description	Feet Below Crown
<u>R.D. No. 1 (Old River)</u>			
0.67	14"	Pump L.S., Siphon breaker W.S.	8.0
0.86	14"	Pump W.S., Siphon breaker L.S.	6.0
<u>R.D. 2089, Unit No. 1 (Old River)</u>			
0.03	8"	Pump L.S.	4.6
0.46	21"	Pump W.S., Siphon breaker L.S.	4.5
0.81	16"	Slant pump W.S.	5.5
1.15	12"	Pump L.S., Siphon breaker W.S.	3.0
1.51	12 3/4"	Gas line	5.0
<u>R.D. 2089, Unit No. 2 (Salmon Slough)</u>			
0.55	14"	Pump W.S., Siphon breaker L.S.	8.0
0.97	14"	Pump W.S.	8.0

Note on abbreviations:

L.S. = Landside  
W.S. = Waterside

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

- (1) Maintenance - paragraph 5-02 of the Standard Manual.
- (2) Suggested Check Lists - EXHIBIT E of this Supplement Manual.
- (3) Operation - paragraph 5-04 of the Standard Manual.
- (4) Additional Requirements - paragraph 5-05 of the Standard Manual.
- (5) Safety Requirements - 5-06 of the Standard Manual.

2-03. Channels.

a. Description. The main channels and floodways of the San Joaquin and Stanislaus Rivers for this unit lie adjacent to the levees as described in paragraph 1-02. The project design capacities of said channels are listed in paragraph 1-03 of this manual.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

- (1) Maintenance - paragraph 6-02 of the Standard Manual.
- (2) Suggested Check Lists - EXHIBIT E of this Supplement Manual.
- (3) Operation - paragraph 6-04 of the Standard Manual.
- (4) Safety Requirements - paragraph 6-05 of the Standard Manual.

It shall be the duty of the local agency responsible for maintenance to keep in contact with the State Department of Water Resources' Flood Operation Center during all high water periods and maintain a patrol of the project works in their area during such periods (when stages are at or in excess of a reading of 17.5 on the Mossdale gage).

The Flood Operation Center is responsible for Data Collection and issuance of a joint river forecast with the US Weather Bureau and coordinates with the Sacramento District Engineer and other agencies to keep appraised of the current situation in accordance with terms of the Memorandum of Understanding dated 1 November 1956, between the Division Engineer, US Army Engineer Division, South Pacific and the Director, Department of Water Resources, State of California for cooperative action during flood emergencies.

## 2-04. Miscellaneous Facilities

a. Description. Miscellaneous structures or facilities which were constructed as a part of, or in conjunction with, the protective works, and which might affect their functioning, include the following:

- (1) Utility Relocation. Because of the nature of the construction of structures by local interests, records of utility relocations are not available.
- (2) Hydrologic Facilities.

The State Department of Water Resources continuous water stage recorder and staff gage located on the right bank of the San Joaquin River immediately downstream from the Mossdale Bridge on US Highway No. 50. This gage is set at mean sea level datum (1929 adjustment). A stage of about 17.5 feet on this gage usually corresponds to a stage of 30.5 feet at the Vernalis gage.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements see the following:

- (1) Maintenance - paragraph 7-02 of the Standard Manual.
- (2) Suggested Check Lists - paragraph 7-03 of the Standard Manual.
- (3) Operation - paragraph 7-04 of the Standard Manual.

### SECTION III

#### REPAIR OF DAMAGE TO PROJECT WORKS AND METHODS OF COMBATING FLOOD CONDITIONS

3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the local agency responsible for maintenance will contact a representative of the Department of Water Resources, State of California, who coordinates maintenance of project works of the Lower San Joaquin River and Tributaries Flood Control Project. The State representative will give assistance or advise, or will determine appropriate action to be taken.

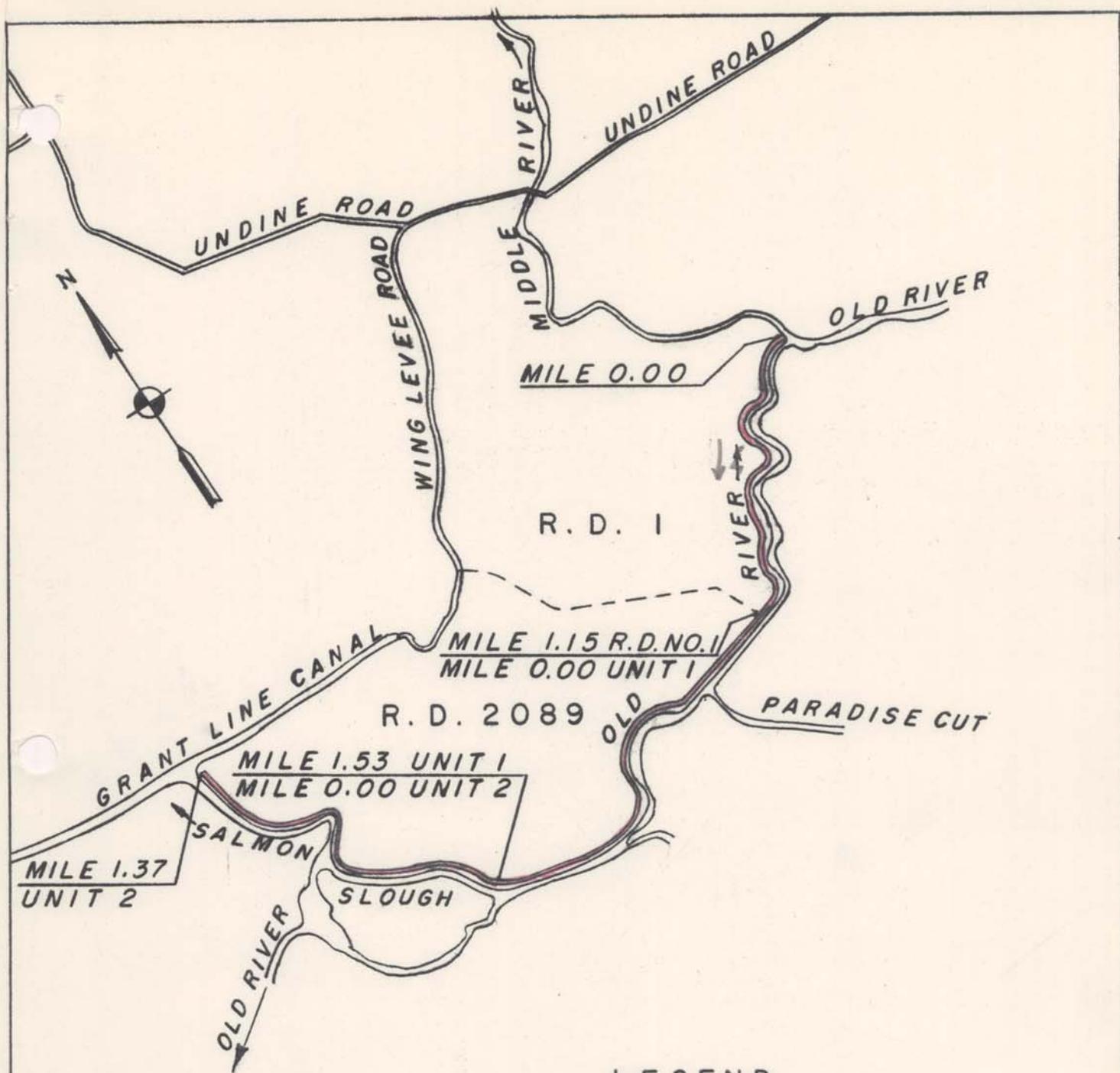
3-02. Applicable methods of combating floods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Standard Operation and Maintenance Manual where the subject is fully covered.

EXHIBIT A

FEDERAL FLOOD CONTROL REGULATIONS

(SEE STANDARD MANUAL)

EXHIBIT A



LEGEND

— — — — — EXTENT OF LEVEES IN THIS UNIT

LOCATION MAP  
 UNIT NO. 8  
 RIGHT BANKS OF OLD RIVER  
 AND SALMON SLOUGH WITHIN  
 R.D. NO. 1 AND R.D. NO. 2089

EXHIBIT B

“AS CONSTRUCTED”  
DRAWINGS

<u>File No.</u>	<u>Title</u>
7-4-1517	Stone Protection Right and Left Banks Old River – Head of Old River to Paradise Cut, in 15 sheets.
7-4-1646	Paradise Cut and Bank Protection on Old River (Selected Sites), in 10 sheets.
SJ-4-112	Lower San Joaquin River RD 2089, SJ28 Phase III Levee Restoration San Joaquin County, California, in 2 sheets.

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(SEE STANDARD MANUAL)

EXHIBIT C  
Unattached

EXHIBIT D

SUGGESTED CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(SEE STANDARD MANUAL)

EXHIBIT D

EXHIBIT E

SUGGESTED CHECK LISTS OF LEVEES

CHANNEL AND STRUCTURES

SUGG. CHECK LIST NO. 2  
PT NO. 8  
MORGAN RIVER

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

Item	Remarks
(a) Location by Station	
(b) Settlement, sloughing, or loss of grade	
(c) Erosion of both levee slopes	
(d) Condition of roadways, including ramps	
(e) Evidence of seepage	
(f) Condition of farm gates and fencing	
(g) Maintenance measures taken since last inspection	
(h) Comments	

Instruction for Completing Sheet 2, Exhibit E  
(To be printed on back of Sheet 2)

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate any evidence of seepage through the embankment section.
- Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.
- Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.
- Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

**SURVEY CHECK LIST NO. 3**  
**CHANNEL AND RIGHT-OF-WAY**  
**UNIT NO. 8**  
**LA JOAQUIN RIVER**

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date \_\_\_\_\_ Superintendent \_\_\_\_\_

Item	Remarks
(a) Name of Channel and location by Stations	
(b) Vegetal growth in channel	
(c) Debris and refuse in channel	
(d) New construction within right-of-way	
(e) Extent of aggradation or degradation	
(f) Condition or riprapped section	
(g) Condition of bridges	
(h) Measures taken since last inspection	
(i) Comments	

Instructions for Completing Sheet 4, Exhibit E  
(To be printed on back of Sheet 4)

- Item (a) Indicate station of observation obtained by pacing from nearest reference point.
- Item (b) Note nature, extent, and size of vegetal growth within the limits of flood flow channel.
- Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, fouling of the tainter gates, or the bridges over the channel.
- Item (d) Report any construction along the diversion channel or above the diversion channel or above the diversion works that has come to the attention of the inspector and that might affect the functioning of the project.
- Item (e) Indicate any change in grade or alignment of the channels, either by deposition or sediment or scour, that is noticeable by visual inspection. Estimate amount and extent.
- Item (f) Indicate any change that has taken place in the riprap such as disintegration of the rock, erosion, or movement of the rock. Note the presence of vegetal growth through the riprap.
- Item (g) Note any damage or settlement of the footings of the bridges. Indicate condition of wooden structures and if repainting is required. Indicate condition of bridge approaches, headwalls, and other appurtenances.
- Item (h) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.
- Item (i) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion and one copy is to be attached to and submitted with the superintendent's semi-annual report.

SUGGESTED CHECK LIST NO. 4  
DRAINAGE AND IRRIGATION STRUCTURES  
UNIT NO. 8  
SAN JOAQUIN RIVER

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

(a)	Location by Levee Mileage				
(b)	Bank				
(c)	Debris or other obstruction to flow				
(d)	Damage or Settlement of Pipe or conduit				
(e)	Condition of concrete head- wall or invert paving	<u>Old River and Salmon Slough - Right Bank</u> (As listed in Paragraph 2-02)			
(f)	Condition of right-of-way adjacent to structure				
(g)	Repair Measures taken since last inspection				
(h)	Comments				

Instruction for Completing Sheet 6, Exhibit E  
(To be printed on back of Sheet 6)

- (1) Enter station of all structures under Column (a) for check list.
- (2) Inspect inlet, barrel, and outlet for accumulation of sediment, rubbish, and vegetal matter. Note condition under Column (c).
- (3) If any settlement or damage to the pipe, barrel, or invert of the drain has occurred, estimate the location and amount. Note particularly if any backfill has come into the pipe or been disturbed. Record observations under Column (d).
- (4) Inspect the concrete portions of the structures for evidence of settlement, cracks, "pop-outs", spaces, abrasive wear, or other deterioration. Record conditions under Column (e).
- (5) Inspect backfill area adjacent to structure for evidence of erosion caused by overflow of the drainage structure and note conditions in Column (f).
- (6) Under Column (g) indicate physical measures that have been taken to correct conditions reported in last inspection, and their condition at time of this inspection.
- (7) Under Column (h) record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.
- (8) A copy of the inspector's report is to be mailed to the District Engineer immediately on completion, and a record copy shall be attached to the Superintendent's semi-annual report.

EXHIBIT F

LETTERS OF ACCEPTANCE BY  
THE STATE RECLAMATION BOARD

EXHIBIT F

Henryson	
Plummer	
3 DEC 1958	

SPEKO-P S24.3 (Lower S.J. Riv. & Trib Proj.)

The Reclamation Board  
State of California  
1215 "O" Street  
Sacramento, California

Gentlemen:

Reference is made to Reclamation Board letter dated 9 February 1956 in reply to Sacramento District letter dated 3 November 1955 relative to the State's responsibility for the acceptance for maintenance of individual project units pertaining to the Lower San Joaquin River and Tributaries Project constructed by the Corps of Engineers.

Further reference is made to Sacramento District letter dated 7 June 1957 relative to plans and specifications No. 2331, Stone Protection Along Right and Left Banks of Old River from Head of Old River to Paradise Cut, San Joaquin County, California.

The required work consisting of stone protection at various sites on the right and left banks of Old River was completed 21 November 1958 in accordance with Specification No. 2331, Contract No. DA-04-167-CIVEN3-58-6 and Drawing No. 7-4-1517.

In accordance with the understandings in the above referenced correspondence the levee units listed below, together with the waterway banks contiguous thereto, are hereby transferred to the jurisdiction of the State of California for operation and maintenance.

The levee units are listed as follows:

Levee Unit No.	Site No.	Station		Right or Left Bank
		From	To	
19	J & K	20+00	63+00	Left
20	L & M	76+53	107+00	Left
21	N	-2+00	10+00	Right
22	O	0+00	14+00	Right
23	P	-2+00	9+50	Right
24	Q, S&T	3+00	23+00	Right
25	R	222+00	260+83	Left

*Units 7, 8, 9  
Old River  
Posted*

*Cont # 58-6  
Units 19-25*

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**CERTIFIED MAIL**  
 RETURN RECEIPT REQUESTED

SPKRO-P 824.3 (Lower S.J. Riv. & Trib Proj.)  
 The Reclamation Board

3 DEC 1958

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by a Standard Operation and Maintenance Manual for the Lower San Joaquin River and Tributaries Project which is being prepared. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work will be furnished to you upon completion.

A copy of this letter is being transmitted to the Department of Water Resources.

Sincerely yours,

1 Incl  
 F.C. Reg.

Copy furnished:  
 State Water Resources w/o incl

O.C.E. w/o incl  
 SoFacDivnEngr w/o incl

cc: Engr Divn w/o incl  
 Northern Area Ofc w/o incl  
 Sac Opns Ofc w/d incl

A. E. McCOLLAM  
 Colonel, CE  
 District Engineer

*Units 7, 8, 9*

**CERTIFIED MAIL**  
 RETURN RECEIPT REQUESTED

THE RECLAMATION BOARD  
State of California

29 December 1958

C  
O  
P  
Y

C  
O  
P  
Y

District Engineer  
Sacramento District  
US Corps of Engineers  
P.O. Box 1739  
Sacramento 8, California

Gentlemen:

Reference is made to your letter of December 3, 1958, file number SPKKO-P 824.3 (Lower San Joaquin River and Tributary Project), regarding the responsibility for operation and maintenance of the right and left banks of Old River from Head of Old River to Paradise Cut, San Joaquin, County.

The Reclamation Board at its meeting of December 18, 1958, formally accepted the maintenance responsibility of the above described area as described in the first, second, third, fourth and fifth paragraphs of your letter under the conditions outlined in your letter.

Yours very truly,

THE RECLAMATION BOARD  
A. M. BARTON

by /s/ Wm A. Carver  
WILLIAM A. CARVER  
Assistant Secretary

EXHIBIT F  
Sheet 1 of 2

COPY

COPY

THE RECLAMATION BOARD  
of  
THE STATE OF CALIFORNIA

October 25, 1963  
Refer to: 7001.37.200  
4130.37.200

District Engineer  
Corps of Engineers  
U. S. Army  
P. O. Box 1739  
Sacramento 8, California

Dear Sir:

Reference is made to your letter of July 12, 1963, concerning transfer to the State of California of bank protection, levee enlargement, patrol road construction and channel improvement on Old River and Paradise Cut which was completed on 9 July 1963, Specification No. 2736.

The flood control work referred to above is listed as follows:

a. Levee enlargement and bank protection, Old River:

<u>LEVEE UNIT NO.</u>	<u>SITE NO.</u>	<u>RIVER MILE POINTS</u>	<u>RIGHT OR LEFT BANK</u>
69	77	29.93 to 30.17	Right
70	79 - 80	29.25 to 29.50	Right
71	81 - A	28.83 to 28.97	Right
72	82	28.27 to 28.55	Right

b. Access roads: Shaping and gravel surfacing of access roads, right bank Old River at Site No. 3, and right and left bank Paradise Cut at Sites Nos. 8 and 9.

c. Patrol Roads: Shaping and gravel surfacing of patrol roads right bank Old River at Sites Nos. C, D, E, and F (included on portion of Salmon Slough); and right and left banks of Paradise Cut at Sites Nos. G and H.

d. Channel Improvement: Clearing of trees and brush in floodway area of Paradise Cut in vicinity from Paradise Dam to Highway 50.

The Reclamation Board, at its meeting of August 1, 1963, formally accepted the above referred to levee enlargement, bank protection and channel work for operation and maintenance.

Sincerely yours,

A.E. MCCOLLAM  
General Manager

EXHIBIT F  
Sheet 2 of 2

12 July 1963

The Reclamation Board  
 State of California  
 1215 "O" Street  
 Sacramento 14, California

Gentlemen:

Reference is made to joint inspections made on 12 December 1962 and 1 February 1963 of flood control work pertaining to the Lower San Joaquin River and Tributaries Project for the purpose of transferring it, upon completion, to the State of California for operation and maintenance.

The required work, consisting of bank protection, levee enlargement, access and patrol road construction and channel improvement on Old River and Paradise Cut was completed on 9 July 1963, in accordance with Specification No. 2736, Contract No. DA-04-167-CIVENG-63-35 and Drawing No. 7-4-1646. The flood control work referred to above is listed as follows:

a. Levee enlargement and bank protection, Old River:

<u>LEVEE UNIT NO.</u>	<u>SITE NO.</u>	<u>RIVER MILE POINTS</u>	<u>RIGHT OR LEFT BANK</u>
69	77	29.93 to 30.17	Right
70	79 - 80	29.25 to 29.50	Right
71	81-A	28.83 to 28.97	Right
72	82	28.27 to 28.55	Right

b. Access roads: Shaping and gravel surfacing of access roads, right bank Old River at Site No. 3; and right and left bank Paradise Cut at Sites Nos. 8 and 9.

c. Patrol Roads: Shaping and gravel surfacing of patrol roads, right bank Old River at Sites Nos. C, D, E, and F (included on portion of Salmon Slough); and right and left banks of Paradise Cut at Sites Nos. G and H.

Unit 8

SPKRD-N  
The Reclamation Board

12 July 1963

d. Channel Improvement: Clearing of trees and brush in floodway area of Paradise Cut in vicinity from Paradise Dam to Highway 50.

The flood control work described above now meets the requirements of the Lower San Joaquin River and Tributaries Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

The maintenance work required under the provisions of the Lower San Joaquin River and Tributaries Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented by a Standard Operation and Maintenance Manual for the Lower San Joaquin River and Tributaries Project. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work will be furnished to you upon completion.

A copy of this letter is being transmitted to the Department of Water Resources.

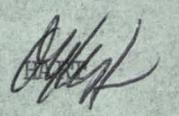
Sincerely yours,

1 Incl  
F.C. Reg.

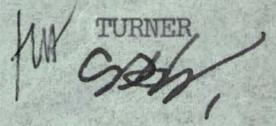
H. N. TURNER  
Colonel, CE  
District Engineer

  
THOMPSON/pnp

Copy furnished:  
Dept Water Resources  
23rd & "R" Streets  
Sacramento, California



O.C.E.  
S.P.D.

  
TURNER

cc: Engr Div-ProgDevBr w/o incl  
Engr Div-Lev&Chan w/o incl  
Northern Area Ofc w/o incl  
F&A Br w/o incl  
Supply Division w/o incl

Unit 8



OPERATIONS BRANCH  
CHANNELS & LEVEES SECTION

FEB 14 2001

Navigation and Flood Control Unit

Mr. Peter D. Rabbon, General Manager  
The Reclamation Board  
State of California  
1416 - 9<sup>th</sup> Street, Room 1601  
Sacramento, California, 95814

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the north levee of Old River at its junction with Salmon Slough to the south boundary of RD 1 in RD 2089, to the State of California for operation and maintenance.

The work consisted of restoring the waterside levee slope at L.M. 0.31-0.35 of the north levee of Old River damaged by the January 1997 Flood. The work was accomplished by excavating the levee section and placing riprap over filter fabric from existing riprap at the bottom of the slope to the crown to repair erosion damage. The work as listed in the enclosure was completed on Nov. 30, 1997 in accordance with Specification No. 9893E, Drawing File No. SJ-4-112, Contract No. DACW05-97-C-0130.

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the San Joaquin River in RD 2089. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of the date of this letter to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, San Joaquin River Flood Control Project.

Sincerely,

Michael J. Walsh  
Colonel, Corps of Engineers  
District Engineer

MINTON/dd *JM*

TAVANA *[Signature]*

SANDNER *[Signature]*

WINTON *[Signature]*

DURHAM-AGUILERA *[Signature]*

DOYLE *[Signature]*

Enclosure

cc:  
CESPK-CO  
CESPK-CO-E  
CESPK-ED  
CESPK-ED-D  
CESPK-PM  
CESPK-CO-RV

*Units*

*[Signature]* KORMAN

CHARLTON *[Signature]*

O'BRIEN *[Signature]*

WALSH *[Signature]*

**THE RECLAMATION BOARD**

1416 NINTH STREET, ROOM 1601  
SACRAMENTO, CA 95814  
(916) 653-5434 FAX: (916) 653-5805  
Permits: (916) 653-5726 FAX: (916) 653-5805



APR 24 2001

Colonel Michael J. Walsh  
District Engineer  
Sacramento District  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Dear Colonel Walsh:

This is in reply to your letter of February 14, 2001 to The Reclamation Board in which the U.S. Army Corps of Engineers transferred the repaired north levee of Old River from Levee Mile 0.31 to LM 0.35, in Reclamation District No. 2089, to the State of California for operation and maintenance.

You advised the Board that the completed repairs would be added by amendment to the Operation and Maintenance Manual, San Joaquin River Flood Control Project. We understand that the repairs were completed in accordance with the original plans and specifications, and any deviations from them were minor. We acknowledge receipt of as-constructed drawings and will forward a copy to RD 2089.

The Board accepted the completed repairs at its April 20, 2001 meeting and transferred the Old River levee repairs to RD 2089 for operation and maintenance. Until the Corps provides the amendment to the O&M Manual, RD 2089 will be expected to perform operation and maintenance according to the current manual.

If you have any questions, you may contact Peter Rabbon, General Manager of The Reclamation Board, at (916) 653-5434, or your staff may contact Keith Swanson, Chief of the Department of Water Resources' Flood Project Maintenance Branch, Division of Flood Management, at (916) 323-4677.

Sincerely,

*Betsy A. Marchand*  
President

cc: (See attached list)

*Unit 8*



Colonel Michael J. Walsh

APR 24 2001  
Page 2

Mr. Kell Cloward, Chief  
Readiness Branch  
Sacramento District  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Mr. Al Warren Hoslett, Secretary  
Reclamation District No. 2089  
311 East Main Street, Suite 504  
Stockton, California 95202

*Unit 8*

EXHIBIT G

**SUGGESTED SEMI-ANNUAL REPORT FORM**

**EXHIBIT G**

TO: The District Engineer  
Sacramento District  
Corps of Engineers  
650 Capitol Mall  
Sacramento, California, 95814

( May 19\_\_ )  
( Nov 19\_\_ )

Dear Sir:

The semi-annual report for the period (1 May 19\_\_ to 31 October 19\_\_)  
(1 November 19\_\_ to 30 April 19\_\_) Unit No. 8 of the Lower San Joaquin  
River and Tributaries Project is as follows:

a. The physical condition of the protective works is indicated  
by the inspector's report, copies of which are inclosed, and may be summarized  
as follows:

(Superintendent's summary of conditions)

It is our intention to perform the following maintenance  
work in order to repair or correct the conditions indicated:

(Outline the anticipated maintenance operations for the  
following 6 months.)

b. During this report period, high water periods (water level  
in excess of 17.5 feet on the gage on the San Joaquin River at Mossdale  
Bridge) occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevation</u>
_____	_____
_____	_____
_____	_____

ents on the behavior of the protective works during such high water periods are as follows:

(Superintendent's log of observations)

During the high water stage when the water level at Vernalis gage reached a height of \_\_\_\_\_, on the gage or excess thereof (Dates) \_\_\_\_\_, it was necessary to organize and carry out flood operations as follows:

(See Maintenance Manual \_\_\_\_\_.)

c. The inspections have indicated (no) or (the following) encroachments or trespasses upon the project right-of-way.

d. (No) (\_\_\_\_\_) permits have been issued for (the following) improvements or construction within the project right-of-way.

Executed copies of the permit documents issued are transmitted for your files.

e. The status of maintenance measures, indicated in the previous semi-annual report as being required or as suggested by the representatives of the District Engineer, is as follows:

(Statement of maintenance operations, item by item with percent completion.)

f. The fiscal statement of the Superintendent's operations for the current report period is as follows::

	<u>Labor</u>	<u>Material</u>	<u>Equipment</u>	<u>Overhead</u>	<u>Total</u>
1. Inspection					
2. Maintenance					
3. Flood fighting operations					
TOTAL					

Respectfully submitted,

\_\_\_\_\_  
Superintendent of Works