California Waterfix Hearing Exhibit No. DOI-29

Page No.

R.O. Draft 11/15-2000 Contract No. 01-WC-20-1758

MEMORANDUM OF UNDERSTANDING BETWEEN THE U.S. BUREAU OF RECLAMATION AND THE U.S. FISH AND WILDLIFE SERVICE PROVIDING FOR PROJECT AND ACQUIRED WATER SUPPLIES TO UNITS OF THE NATIONAL WILDLIFE REFUGE SYSTEM IN THE SAN JOAQUIN VALLEY AND THE NATIONAL WILDLIFE REFUGES IN THE TULARE LAKE BASIN OF CALIFORNIA

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	4	MEMORANDUM OF UNDERSTANDING	
	5	BETWEEN THE U.S. BUREAU OF RECLAMATION	
	6	AND	
	7	THE U.S. FISH AND WILDLIFE SERVICE	
	8	PROVIDING FOR	
	9	PROJECT AND ACQUIRED WATER SUPPLIES	
	10	TO	
	11	UNITS OF THE NATIONAL WILDLIFE REFUGE SYSTEM	
	12	IN THE SAN JOAQUIN VALLEY	
	13	AND	
	14	THE NATIONAL WILDLIFE REFUGES	
	15	IN THE TULARE LAKE BASIN	
	16	OF	
	17	CALIFORNIA	
	18	THIS MEMORANDUM OF UNDERSTANDING (MOU), made this $\frac{\mu^{2}}{2}$ day	
	19		
	20	of <u>APAILIPRE</u> , 2001, by and between THE UNITED STATES BUREAU OF	
	21	RECLAMATION (Reclamation), and THE U.S. FISH AND WILDLIFE SERVICE (Service),	
	22	hereinafter called the "parties," defines the parties' roles and responsibilities to meet the	
	23	requirements of Section 3406(d) of the Central Valley Project Improvement Act of October 30,	
	24	1992, Title XXXIV of Pub. L. No. 102-575 (CVPIA) which states, in pertinent part," the	
	25	Secretary shall provide, either directly or through contractual agreements with other	
	26	appropriate parties, firm water supplies of suitable quality to maintain and improve wetland	
	27	habitat areas on units of the National Wildlife Refuge System in the Central Valley of	
	28	California;"	
	29	EXPLANATORY RECITALS	
	30	WHEREAS, the United States has constructed and is operating the Central	
	31	Valley Project, California (Project), for diversion, storage, carriage, and distribution of the	

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32	waters of the Sacramento River, the American River, the Trinity River, and the San Joaquin	
33	River and their tributaries for the following beneficial uses, including, but not limited to, flood	
34	control, irrigation, municipal, domestic, industrial water service, the protection, restoration	
35	and enhancement of fish, and wildlife, and associated habitats in the Central Valley, the	
36	generation and distribution of electric energy, salinity control, and navigation; and	
37	WHEREAS, Reclamation and the Service are entering into this long-term MOU	
38	pursuant to Section 3406(d) of the CVPIA to make available and convey water supplies	
39	pursuant to this MOU for lands of the National Wildlife Refuge (NWR) System in the San	
40	Joaquin Valley, which include: Units of the San Luis NWR, San Luis, Kesterson, West Bear	
41	Creek (formerly West Gallo), Freitas, and East Bear Creek (formerly East Gallo), Merced	
42	NWR; and in the Tulare Lake Basin which includes Kern NWR and Pixley NWR; and	
43	WHEREAS, the wetlands of the Central Valley have declined to approximately	
44	300,000 acres and these remaining wetlands provide critical wildlife habitat and other	
45	environmental benefits, and important recreational and educational opportunities; and	
46	WHEREAS, the Bureau of Reclamation's 1989 Refuge Water Supply Report	
47	concluded that " it is clear that each refuge requires a dependable supply of good quality	
48	water to facilitate proper wetland habitat management for the migratory birds of the Pacific	
49	Flyway and resident wildlife and flora."; and	
50	WHEREAS, Section 3406(d) of the CVPIA requires the Secretary to provide	
51	firm water supplies of suitable quality, through long-term contractual agreements with	
52	appropriate parties, to maintain and improve certain wetland habitat areas in the Central Valley	

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in furtherance of the objectives of the Central Valley Habitat Joint Venture and the Central . 53 Valley Project to protect, restore and enhance fish and wildlife and associated habitats; and 54 WHEREAS, the directives of Section 3406(d) of the CVPIA have been carried 55 out through a cooperative and collaborative effort between the Bureau of Reclamation and Fish 56 and Wildlife Service, acting for the Secretary of the Interior, the California Department of 57 58 Fish and Game, the Grassland Water District, and the Central Valley Habitat Joint Venture partners; and this cooperative and collaborative effort is expected to continue; and 59 WHEREAS, Reclamation intends to use Project facilities, in part, to provide 60 61 firm water supplies of suitable quality to maintain and improve the Refuges; and WHEREAS, the Service has demonstrated to the satisfaction of Reclamation 62 that the Service has fully utilized the water supplies available to it for reasonable and beneficial 63 use for fish and wildlife preservation and enhancement (wetland management) and/or 64 Reclamation has concluded through the Bureau of Reclamation's 1989 Refuge Water Supply 65 Report and the San Joaquin Basin Action Plan/Kesterson Mitigation Action Plan Report that 66 the Service has projected future demand for water use such that the Service has the capability 67 and expects to fully utilize for reasonable and beneficial use the quantity of water to be made 68 available to it pursuant to this MOU; and 69 WHEREAS, Reclamation and the Service are willing to execute this MOU 70 pursuant to subsection 3406(d) of the CVPIA on the terms and conditions set forth below; 71 72 NOW, THEREFORE, in consideration of the mutual and dependent covenants herein contained, it is hereby mutually agreed by the parties hereto as follows: 73

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DEFINITIONS - 74 75 1. When used herein unless otherwise distinctly expressed, or manifestly incompatible with the intent of the parties or expressed in this MOU, the term: 76 77 (a) "Calendar Year" shall mean the period January 1 through December 31, both dates inclusive; 78 79 (b) "Service's Boundary" shall mean the Refuge(s) to which the Service is permitted to provide Delivered Water under this MOU as identified in Exhibit "A". Exhibit 80 "A" may be revised without amending this MOU upon mutual agreement of the Service and 81 82 Reclamation; (c) Omitted 83 (d) "Critically Dry Year" shall mean any Year in which either of the 84 following eventualities exists: 85 The forecasted full natural inflow to Shasta Lake for the current 86 (1) water year (October 1 of the preceding Calendar Year through September 30 of the current 87 Calendar Year), as such forecast is made by Reclamation, on or before February 20, and 88 89 reviewed as frequently thereafter as conditions and information warrant, is equal to or less 90 than 3,200,000 acre feet: or 91 (2)The total accumulated actual deficiencies below 4,000,000 acrefeet in the immediately prior water year or series of successive prior water years, each of 92 which had inflows of less than 4,000,000 acre-feet, together with the forecasted deficiency for 93 the current water year exceed 800,000 acre-feet; 94

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95	For the purpose of determining a Critically Dry Year, the computed		
96	inflow to Shasta Lake under present upstream development above Shasta Lake shall be used as		
97	the full natural inflow to Shasta Lake. In the event that major construction completed above		
98	Shasta Lake materially alters the present regimen of the stream systems contributing to Shasta		
99	Lake, the computed inflow to Shasta Lake used to define a Critically Dry Year will be		
100	adjusted to eliminate the effect of such material alterations.		
101	After consultation with the State, the National Weather Service, and		
102	other recognized forecasting agencies, Reclamation shall select the forecast to be used and will		
103	make the details of it available to the Service. The same forecast used by Reclamation for		
104	operation of the Project shall be used to make forecasts hereunder.		
105	(e) "CVPIA" shall mean the Central Valley Project Improvement		
106	Act, Title XXXIV of the Act of October 30, 1992 (106 Stat. 4706);		
107	(f) "Delivered Water" shall mean the Level 2 Water Supplies and the		
108	Incremental Level 4 Water Supplies diverted by the Service pursuant to this MOU at the		
109	Point(s) of Delivery in accordance with Article 4(c) of this MOU;		
110	(g) "Hydrologic Circumstances" shall mean the conditions described in		
111	subdivision (d) of this Article;		
112	(h) "Incremental Level 4 Water Supplies" shall mean the difference between		
113	the Level 2 Water Supplies and the Level 4 Water Supplies depicted in Exhibit "B";		
114	(i) "Level 2 Water Supplies" shall mean the quantities of water referred to		
115	in section 3406 (d)(1) of the CVPIA and depicted in Exhibit "B"of this MOU;		

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, 116	(j) "Level 4 Water Supplies" shall mean the quantities of water referred to	
117	in section 3406 (d)(2) of the CVPIA and depicted in Exhibit "B"of this MOU;	
118	(k) "Non-Project Facilities" shall mean any non-Project water conveyance or	
119	storage facilities;	
120	(1) "Non-Project Water" shall mean water or water rights, other than	
121	"Project Water", acquired, appropriated by, transferred to or assigned to the Service or,	
122	transferred to the United States for delivery to one or more of the Service's Refuges, as	
123	identified in Exhibit "B";	
124	(m) "Point(s) of Delivery" shall mean the location(s) established and revised	
125	pursuant to Article 5(a) of this MOU, at which Level 2 Water Supplies of Project Water and	
126	Incremental Level 4 Water Supplies are deemed to be delivered to the Service and at which the	
127	Service shall assume the responsibility for the further control, carriage, handling, use, disposal	
128	or distribution of such water supplies so long as such water supplies are being used in	
129	accordance with the terms and conditions of this MOU;	
130	(n) "Project" shall mean the Central Valley Project owned by the United	
131	States and managed by the Department of the Interior, Bureau of Reclamation;	
132	(o) "Project Water" shall mean all water that is developed, diverted, stored,	
133	or delivered by the Secretary in accordance with the statutes authorizing the Central Valley	
134	Project and in accordance with the terms and conditions of applicable water rights acquired	
135	pursuant to California law;	
136	(p) "Refuge(s)" shall mean the lands in the units of the National Wildlife	
137	Refuge System in the Central Valley of California; Gray Lodge, Los Banos, Volta, North	

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138	Grasslands and Mendota state wildlife management areas; and the Grassland Resource		
139	Conservation District all identified in the Refuge Water Supply Report and the land(s)		
140	identified in the San Joaquin Basin Action Plan/Kesterson Mitigation Action Plan Report		
141	prepared by the Bureau of Reclamation as set forth in Section 3406(d) of the CVPIA and/or as		
142	revised in accordance with subdivision (b) of this Article;		
143	(q) "Refuge Water Supply Report" shall mean the report issued by the Mid-		
144	Pacific Region of the Bureau of Reclamation of the United States Department of the Interior		
145	entitled "Report on Refuge Water Supply Investigations, Central Valley Hydrologic Basin,		
146	California" (March 1989);		
147	(r) "Secretary" shall mean the Secretary of the Interior, a duly appointed		
148	successor, or an authorized representative acting pursuant to any authority of the Secretary		
149	through any agency of the Department of the Interior;		
150	(s) "Year" shall mean the period from and including March 1 of		
151	each Calendar Year through the last day of February of the following Calendar Year;		
152	TERM OF MOU		
153	2. (a) This MOU shall be effective on March 1, 2001 and shall remain in		
154	effect through February 28, 2026.		
155	(b) Upon request by the Service, this MOU shall be renewed for successive		
156	periods of twenty-five (25) years each, subject to the terms and conditions mutually agreeable		
157	to the parties. The Service shall request renewal of the MOU at least two (2) years prior to the		
158	date on which this MOU expires.		

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WATER TO BE MADE AVAILABLE AND DELIVERED TO THE SERVICE

During each Year, consistent with State water rights, permits and 160 3. (a) licenses, federal law, and subject to the provisions set forth in Articles 8 and 9 of this MOU, 161 Reclamation shall make available at the established Point(s) of Delivery, and/or convey to the 162 Service the maximum quantities of Project Water and Non-Project Water, respectively, 163 required to provide each of the Refuges with the Level 2 Water Supplies set forth in Exhibit 164 "B" and the Incremental Level 4 Water Supplies set forth in Exhibit "B". The quantities of 165 Level 2 Water Supplies and Incremental Level 4 Water Supplies made available and/or 166 conveyed to the Service shall be scheduled in accordance with the provisions of Article 4 of 167 this MOU; Provided, that, Section 3406(d)(2) of the CVPIA provides that the Incremental 168 Level 4 Water Supplies shall be acquired in cooperation with the State of California and in 169 consultation with the Central Valley Habitat Joint Venture and other interests in cumulating 170 increments of not less than ten percent per annum, from the date the CVPIA was enacted. 171 through voluntary measures which include, but are not limited to, water conservation, 172 conjunctive use, purchase, lease, donations, or similar activities, or a combination of such 173 activities which do not require involuntary reallocation of Project yield, water being provided 174 as all or part of the Incremental Level 4 Water Supplies for each of the Refuges can be made 175 176 available only to the extent that Reclamation is able to acquire the Incremental Level 4 Water Supplies from willing sources: Accordingly, Reclamation shall use its best efforts to acquire 177 the Incremental Level 4 Water Supplies and shall coordinate acquisitions of Level 4 Water 178 Supplies with acquisitions of Environmental Water Account (EWA) water pursuant to the 179 Operating Principles Agreement, dated August 28, 2000, attached to the Record of Decision 180

for the CALFED Bay-Delta Program, dated August 28, 2000, and/or other acquisitions of
water for environmental purposes to ensure that acquisitions of Incremental Level 4 Water
Supplies have a priority at least equal to acquisitions of EWA and/or other environmental
water each year. Reclamation also agrees that the Interagency Refuge Management Team,
created pursuant to Article 6 of this Contract, shall be included among the interests consulted
in acquiring Incremental Level 4 Water Supplies.

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(b) The Service shall continue use of the Non-Project Water component of
the Level 2 Water Supplies set forth in Exhibit "B" as long as such Non-Project Water remains
available to the Service and is of suitable quality. In the event that such water supply is
unavailable to the Service, or is not of suitable quality, subject to the provisions set forth in
Articles 8 and 9 of this MOU, Reclamation shall deliver to the Service sufficient substitute
Project Water to ensure that the quantities of Level 2 Water Supplies are available to the
Service in accordance with subdivision (a) of this Article.

(c) The Service shall comply with all requirements of any biological
opinion(s) addressing the execution of this MOU developed pursuant to Section 7 of the
Endangered Species Act of 1973, as amended, which are applicable to each of the Refuge(s)
and comply with environmental requirements applicable to each of the Refuge(s) as may be
required for specific activities.

(d) The Service shall make reasonable and beneficial use of all Delivered
Water furnished pursuant to this MOU consistent with the wetland habitat water management
plan(s) described in Article 14 of this MOU.

, 202	(e) In order to maximize water available to Refuges and better manage such	
203	water, the Service may request Reclamation's permission to reschedule a portion of the Level	
204	2 Water Supplies and/or a portion of the Incremental Level 4 Water Supplies made available to	
205	the Service for use within the Service's Boundary during the current Year for use within the	
206	subsequent Year. Reclamation may permit such rescheduling in accordance with applicable	
207	law, and the then-current applicable rescheduling guidelines and policies. Upon execution of	
208	this MOU, Reclamation shall have adopted amendments to any applicable rescheduling	
209	guidelines and policies to provide for the rescheduling of refuge water in accordance with this	
210	Article. After execution of this MOU and annually thereafter, Reclamation shall provide the	
211	Service with a copy of the then-current rescheduling guidelines and policies.	
212	(f) Reclamation shall not interfere with the Service's right pursuant to	
213	Federal Reclamation law and applicable California law to the beneficial use of water furnished	
214	pursuant to this MOU so long as the Service fulfills all of its obligations under this MOU. A	
215	reduction in water supplies pursuant to Article 9 of this MOU shall not be deemed to constitute	
216	such interference.	
217	TIME FOR DELIVERY OF WATER	
218	4. (a) On or about February 20 of each Calendar Year, Reclamation shall	
219	provide the Service, in writing, with a preliminary forecast of whether the upcoming Year will	
220	be a Critically Dry Year; and, if a Critically Dry Year is forecast, the extent to which Level 2	
221	Water Supplies to be made available to the Service during the upcoming Year are to be shorted	
222	pursuant to Article 9 of this MOU; and the amount of Incremental Level 4 Water Supplies	
223	estimated to be made available to the Service pursuant to this MOU for the upcoming Year.	

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The forecast will be updated monthly, as necessary, based on then-current hydrologic conditions. Upon the request of the Service, Reclamation shall make available to the Service the data on which Reclamation relied to determine whether the Year in question will or will not be a Critically Dry Year and to determine the amounts of Level 2 Water Supplies and Incremental Level 4 Water Supplies to be made available to the Service pursuant to this MOU during a Critically Dry Year.

(b) Based on the forecast(s) referred to in subdivision (a) of this Article, on
or before March 1 of each Calendar Year, the Service shall submit to Reclamation a written
schedule, satisfactory to Reclamation, showing both the monthly and annual quantities of
Level 2 Water Supplies and Incremental Level 4 Water Supplies to be delivered by
Reclamation to each of the Refuges pursuant to this MOU. Each schedule shall be updated on
a monthly basis to reflect actual use and remaining estimated needs.

(c) In accordance with subdivision (a) of Article 3 of this MOU,
Reclamation shall make available and/or convey Level 2 Water Supplies and Incremental Level
4 Water Supplies for diversion by the Service at the Points of Delivery in accordance with the
schedule submitted by the Service pursuant to subdivision (b) of this Article, or any written
revision(s) thereto, mutually agreed to by Reclamation and the Service which are submitted to
Reclamation within a reasonable time prior to the date(s) on which the requested change(s)
is/are to be implemented.

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POINT OF DIVERSION, MEASUREMENT AND RESPONSIBILITY FOR DISTRIBUTION

OF WATER The original Point(s) of Delivery shall be established by written mutual 5. (a) 245 agreement of the Service and Reclamation. Such Point(s) of Delivery may be revised without 246 amending this MOU upon written mutual agreement of Reclamation and the Service. 247 All water delivered to the Service pursuant to this MOU is to be (b) 248 measured at the Point(s) of Delivery to reflect the quantities of Level 2 Water Supplies and 249 Incremental Level 4 Water Supplies delivered to the Service's Boundary. Upon the request of 250 the Service or on Reclamation's own initiative, Reclamation shall investigate the accuracy of 251 such measurements and the parties will jointly take any necessary steps to adjust any errors 252 253 appearing therein. For any period of time when accurate measurement has not been made, Reclamation shall consult with the Service prior to making a determination of the quantity of 254 Delivered Water for that period of time. The Service shall advise Reclamation on or before 255 the 10th calendar day of each month of the quantities of Level 2 Water Supplies and 256 257 Incremental Level 4 Water Supplies taken during the preceding month at the Point(s) of Delivery. 258 Reclamation shall not be responsible for the control, carriage, handling, 259 (c) use, disposal, or distribution of water delivered to the Service pursuant to this MOU beyond 260

- the Point(s) of Delivery specified in subdivision (a) of this Article. 261
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POOLING OF WATER SUPPLIES

6. Whenever the maximum quantities of Level 2 Water Supplies and/or the 263 (a) Incremental Level 4 Water Supplies depicted in Exhibit "B" are reduced pursuant to Article 9 264

of this MOU, the remaining Level 2 Water Supplies and/or the Incremental Level 4 Water . 265 Supplies may be pooled for use on other Refuge(s); Provided, that no individual Refuge shall 266 receive more Level 2 Water Supplies than would have been made available to it absent a 267 reduction pursuant to Article 9 of this MOU; or be reduced by more than twenty-five (25) 268 percent; Provided further, that Reclamation makes a written determination that pooling of 269 water for use on other Refuge(s) would not have an adverse impact, that cannot be reasonably 270 mitigated, on Project operations, other Project Contractors, or other Project purposes; 271 Provided further, that Reclamation determines that such reallocation is permitted under the 272 terms and conditions of the applicable underlying water right permit and/or license; and 273 Provided still further, that water made available under this MOU may not be scheduled for 274 delivery outside the Service's Boundary without prior written approval of Reclamation. 275 276 (b) An Interagency Refuge Water Management Team, to be chaired by Reclamation and to be established upon execution of this MOU, shall be entitled to 277 278 collaboratively allocate the pooled water supplies and provide a schedule for delivery of the pooled supplies to meet the highest priority needs of the Refuge(s) as depicted in Exhibit "B"; 279 Provided, however, nothing in this Article is intended to require the Service to pool the water 280 supply provided for in this MOU. The Interagency Refuge Water Management Team shall be 281 composed of designees of the Bureau of Reclamation, the United States Fish and Wildlife 282 Service, the California Department of Fish and Game, and the Grassland Water District. 283 TRANSFERS, REALLOCATIONS OR EXCHANGES OF WATER 284 7. Subject to the prior written approval of Reclamation, the Project Water made 285 available under this MOU may be transferred, reallocated or exchanged in that Year to other 286

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Refuge(s) or Project contractors if such transfer, reallocation or exchange is requested by the
 Service and is authorized by applicable Federal and California State laws, and then-current
 applicable guidelines or regulations.

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TEMPORARY REDUCTIONS--RETURN FLOWS

8. (a) Consistent with the authorized purposes and priorities of the Project and the requirements of Federal law, Reclamation shall make all reasonable efforts to optimize water deliveries to the Service as provided in this MOU.

(b) The quantity of water to be delivered to the Service as herein provided 294 may be temporarily discontinued or reduced when investigation, inspection, maintenance, 295 repair, or replacement of any of the Project facilities and/or Non-Project Facilities or any part 296 thereof necessary for the delivery of water to the Service is required. Reclamation shall give 297 298 and/or arrange to have the owner/operator of Non-Project Facilities give the Service due written notice in advance of such temporary discontinuance or reduction, except in case of an 299 emergency, when no advance notice is possible, in which case Reclamation shall notify and/or 300 arrange to have the owner/operator of the Non-Project Facilities notify the Service of said 301 302 discontinuance or reduction as soon as is feasible; Provided, that Reclamation shall use its best efforts to avoid any discontinuance or reduction in such service. Upon resumption of service 303 after such reduction or discontinuance, and if requested by the Service, Reclamation will make 304 305 all reasonable efforts, consistent with other obligations and operational constraints, to deliver the quantity of water which would have been delivered hereunder in the absence of such 306 discontinuance or reduction. 307

The United States reserves the right to all seepage and return flow water (c) - 308 derived from Delivered Water which escapes or is discharged beyond the Service's Boundary; 309 Provided, that this shall not be construed as claiming for the United States any right to seepage 310 or return flow being put to beneficial use pursuant to this MOU within the Service's Boundary 311 by the Service or those claiming by, through, or under the Service. 312 WATER SHORTAGE AND APPORTIONMENT 313 In a Critically Dry Year, Reclamation may temporarily reduce, for that 9. 314 (a) Year, the availability of Level 2 Water Supplies up to twenty-five (25) percent of the 315 maximum quantities set forth in Exhibit "B" whenever reductions due to Hydrologic 316 Circumstances are imposed upon agricultural deliveries of Project Water; Provided, that such 317 reductions shall not exceed in percentage terms the reductions imposed on agricultural service 318 contractors. The quantity of Non-Project Water available to one or more of the Refuges as part 319 of its/their Level 2 Water Supplies may be reduced by more than twenty-five (25) percent in 320 Years when the quantity of Project Water made available to the Service can be reduced by no 321 more than twenty-five (25) percent. In such cases, Reclamation shall make up the supply 322 difference with water supplies provided by Reclamation to ensure that Level 2 Water Supplies 323 from all sources are not reduced by more than twenty-five (25) percent. 324 Reductions in the Level 2 Water Supplies to be made available to the 325 (b)

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individual Refuge(s) pursuant to this MOU, shall be imposed only in a Critically Dry Year.
 For the Incremental Level 4 Water Supplies provided from Non-Project Water and Project
 Water, reductions shall be imposed in accordance with the priority or priorities that were

- 329	applied to such Non-Project Water and the shortages assigned to Project Water prior to its	
330	transfer or acquisition as Incremental Level 4 Water Supplies.	
331	RULES AND REGULATIONS	
332	10. The parties agree that the delivery of water pursuant to this MOU is subject to	
333	Federal Reclamation law, as may be amended and supplemented, as applicable, and the rules	
334	and regulations promulgated by the Secretary of the Interior under Federal Reclamation law.	
335	QUALITY OF WATER	
336	11. (a) Consistent with other legal obligations, the water delivered by	
337	Reclamation to the Service pursuant to this MOU shall be of suitable quality to maintain and	
338	improve wetland habitat areas and of comparable quality to water provided to other Project	
339	purposes within the same geographical areas; Provided, that Reclamation is under no obligation	
340	to construct or furnish water treatment facilities to maintain or to improve the quality of the	
341	water furnished to the Service pursuant to this MOU. The quality of Delivered Water may be	
342	monitored by the Service at the Point(s) of Delivery on an as needed basis. Should	
343	Reclamation, in consultation with the Service, determine that the Level 2 Water Supplies	
344	and/or the Level 4 Water Supplies to be made available to the Service pursuant to this MOU	
345	during all or any part of a Year will not be of the quality that the Service feels is suitable to	
346	maintain and improve wetland habitat areas, the Service and Reclamation shall meet within 48	
347	hours or at a time mutually agreeable to the parties and determine the appropriate actions	
348	necessary to identify and address the source of the water quality problems.	

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. 349	(b) The operation and maintenance of Project facilities shall be performed in		
350	such manner as is practicable to maintain the quality of raw water made available through such		
351	facilities at the highest level reasonably attainable as determined by Reclamation. The Service		
352	shall be responsible for compliance with all State of California and Federal water quality		
353	standards and directives applicable to surface return flows and subsurface agricultural drainage		
354	discharges generated within its boundaries arising from water conveyed to the Refuges		
355	pursuant to this MOU. This MOU does not create any obligation on Reclamation to provide		
356	drainage services.		
357	USE OF NON-PROJECT FACILITIES FOR WATER DELIVERY		
358	12. Any use of Non-Project Facilities, including use of State Water Project facilities		
359	pursuant to Joint Point of Diversion or other use of State Water Project facilities to deliver the		
360	water supplies provided for in the MOU, or any agreement for the use of such Non-Project		
361	Facilities, shall in no way alter the obligation of Reclamation to make available and deliver		
362	water supplies in accordance with all of the terms and conditions of this MOU. In addition,		
363	any costs incurred in the use of Non-Project Facilities to deliver water supplies pursuant to this		
364	MOU shall be paid for in accordance with Section 3406(d)(3) of the CVPIA.		
365	OPINIONS AND DETERMINATIONS		
366	13. (a) Where the terms of this MOU provide for actions to be based upon the		
367	opinion or determination of either party to this MOU, said terms shall not be construed as		
368	permitting such action to be predicated upon opinions or determinations that are arbitrary,		
369	capricious or unreasonable. Both parties, notwithstanding any other provisions of this MOU,		
370	expressly reserve the right to seek relief from and appropriate adjustment for any such		

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371 arbitrary, capricious, or unreasonable opinion or determination. Each opinion or
372 determination by either party shall be provided in a timely manner. Nothing in this
373 subdivision of this Article is intended to or shall affect or alter the standard of judicial review
374 applicable under federal law to any opinion or determination implementing a specific provision
375 of federal law embodied in statute or regulation.

376 (b) Both parties to this MOU shall have the right to make determinations 377 necessary to administer this MOU that are consistent with the provisions of this MOU, the 378 laws of the United States and of California, and the rules and regulations promulgated by the 379 Secretary of the Interior. Each party shall make such determinations in consultation with the 380 other party to the extent reasonably practicable.

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WATER CONSERVATION

14. The Service shall prepare individual refuge wetland habitat water 382 (a) management plan(s) in order to ensure the effective use of water supplies to meet wetland 383 resource needs and to meet the objectives of the Central Valley Habitat Joint Venture and the 384 purposes of the CVPIA to maintain and improve certain Central Valley wetland habitat areas. 385 Criteria to prepare and evaluate refuge wetland habitat water management plan(s) shall be 386 387 developed by the Interagency Refuge Water Management Team within one (1) year of the execution of this MOU, and reviewed and updated every five (5) years thereafter taking into 388 consideration the provisions of the Interagency Coordinated Program Task Force report dated 389 June 1998. The criteria shall include economically feasible water management measures 390 which can improve the Services' efficient use of water in a manner appropriate for wetland 391 and wildlife management, and shall also include time schedules for meeting the water use 392

efficiency and conservation objectives. The criteria shall grant substantial deference to on-. 393 394 going state efforts related to wetlands water management and shall take into account the unique requirements associated with water use for the maintenance and enhancement of wetland and 395 wildlife habitat. The Service shall make all reasonable efforts to complete the original wetland 396 habitat water management plan(s) within one (1) year of the establishment of the criteria. 397 Reclamation will review and determine if the wetland habitat water management plan(s) meet 398 the established criteria for evaluating said plan within ninety (90) days of receipt of each plan. 399 Prior to the Service being afforded opportunities such as pooling 400 (b) and rescheduling of water supplies pursuant to Articles 3 and 6 of this MOU, the Service must 401 be implementing a wetland habitat water management plan that has been determined by 402 Reclamation to meet the established criteria developed pursuant to subdivision (a) of this 403 Article for preparing and evaluating said plan. Continued pooling and rescheduling benefits 404 pursuant to Articles 3 and 6 of this MOU shall be contingent upon the Service's continued 405 implementation of such wetland habitat water management plans. In the event Reclamation 406 determines the Service is unable to implement its wetland habitat water management plan, due to 407 circumstances beyond its control, the benefits of Articles 3 and 6 of this MOU shall be continued 408 so long as the Service diligently works with Reclamation to obtain such determination at the 409 earliest practicable date, and thereafter the Service begins implementing its wetland habitat 410 411 water management plan immediately after the circumstances preventing implementation have ceased. 412

413 (c) In the event that implementation of the wetland habitat water
414 management plan(s) prepared pursuant to subdivision (a) of this Article results in water

. 415	savings, all conserved water supplies may be transferred/reallocated, under the terms and	
416	conditions of this MOU, to other wetland, wildlife and fishery needs or to other Project	
417	contractors in accordance with the recommendations of the Interagency Refuge Water	
418	Management Team established pursuant to Article 6 of this MOU; Provided, that Reclamation	
419	makes a written determination that such transfer/reallocation of conserved water would not	
420	have an adverse impact, that cannot be reasonably mitigated, on Project operations, other	
421	Project Contractors or other Project purposes; Provided further, that the transfer/reallocation	
422	is requested by the Service and Reclamation determines that the transfer/reallocation is	
423	authorized by applicable laws, and then-current applicable guidelines and/or regulations.	
424	(d) The Service shall submit to Reclamation an annual update on the status	
425	of its implementation of the wetland habitat water management plan(s) for the previous Water	
426	Year.	
427	(e) At five (5) year intervals, the Service shall revise its wetland habitat	
428	water management plan(s), as necessary, to reflect the then-current criteria for preparing and	
429	evaluating said plans and submit such revised plan(s). Upon completion of such revised	
430	plan(s), the Service shall submit such revised plan(s) to Reclamation for review and so	
431	Reclamation can determine whether such plan(s) meet the then-current criteria.	
432	EXISTING OR ACQUIRED WATER OR WATER RIGHTS	
433	15. Except as provided in subdivision (b) of Article 3, the exercise of existing water	
434	rights by the Service, or its acquisition of additional water or water rights from other than the	
435	United States, shall not alter the obligation of Reclamation to provide the maximum quantities	

- 436 of Level 2 Water Supplies and Incremental Level 4 Water Supplies under subdivision (a) of
- 437 Article 3 of this MOU.

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- 438 IN WITNESS WHEREOF, the parties hereto have executed this MOU as of the day and year
 - 439 first above written.

APPROVED AS TO LEGA ORM AND SUFFICIENC 440 unn 441 442 OFFICE OF REGIONAL SOLICITOR DEPARTMENT OF THE INTERIOR

By: Regional Director, Mid-Pacific Region Bureau of Reclamation

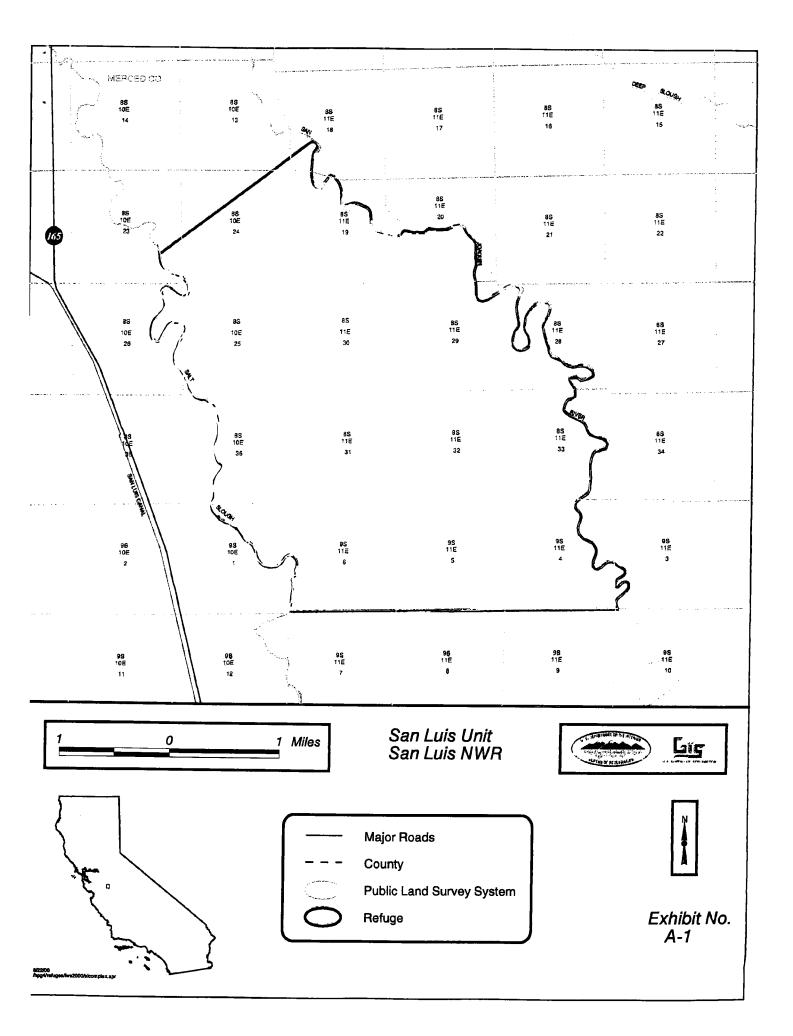
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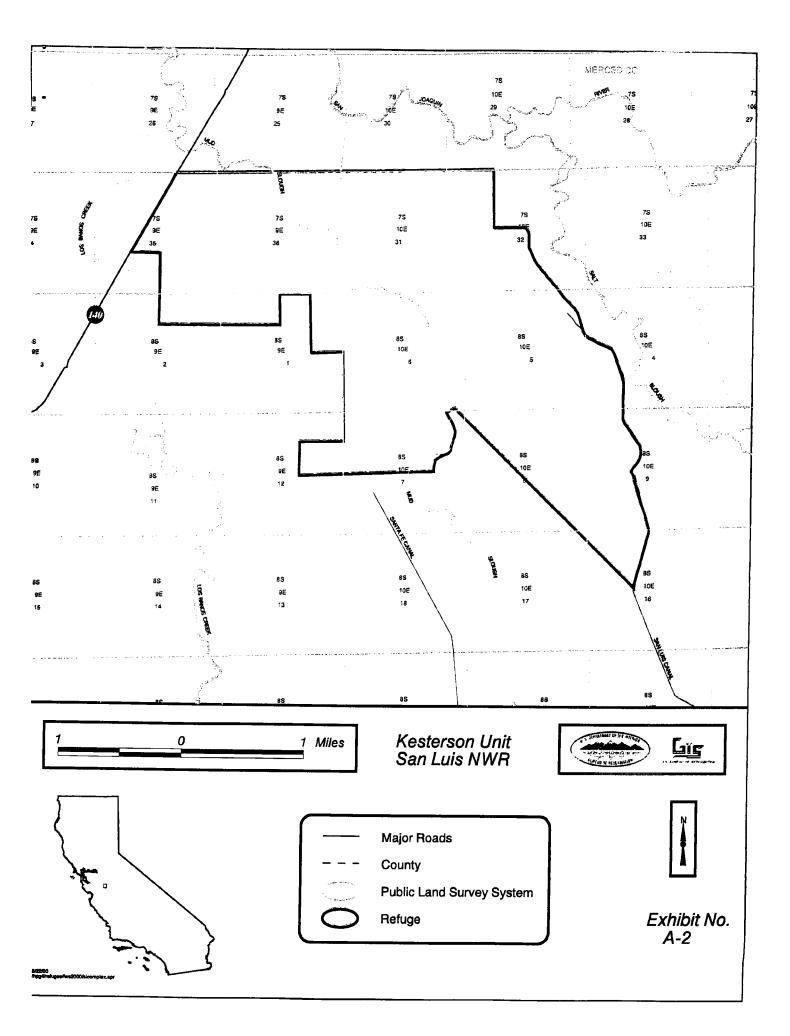
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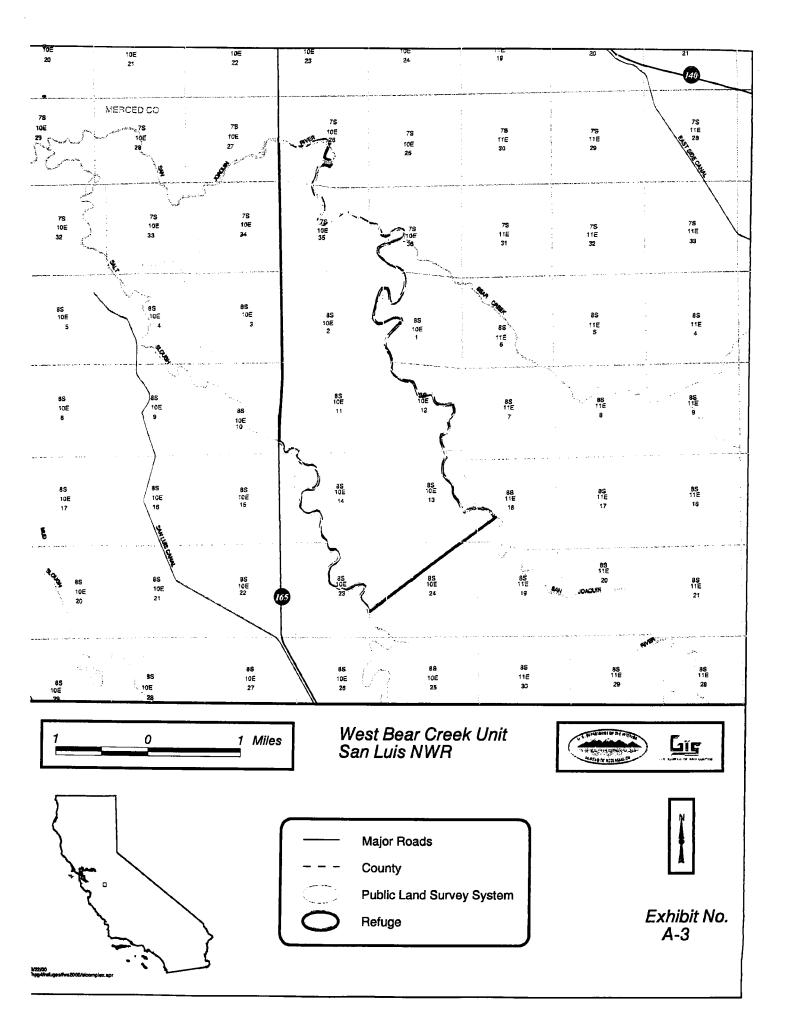
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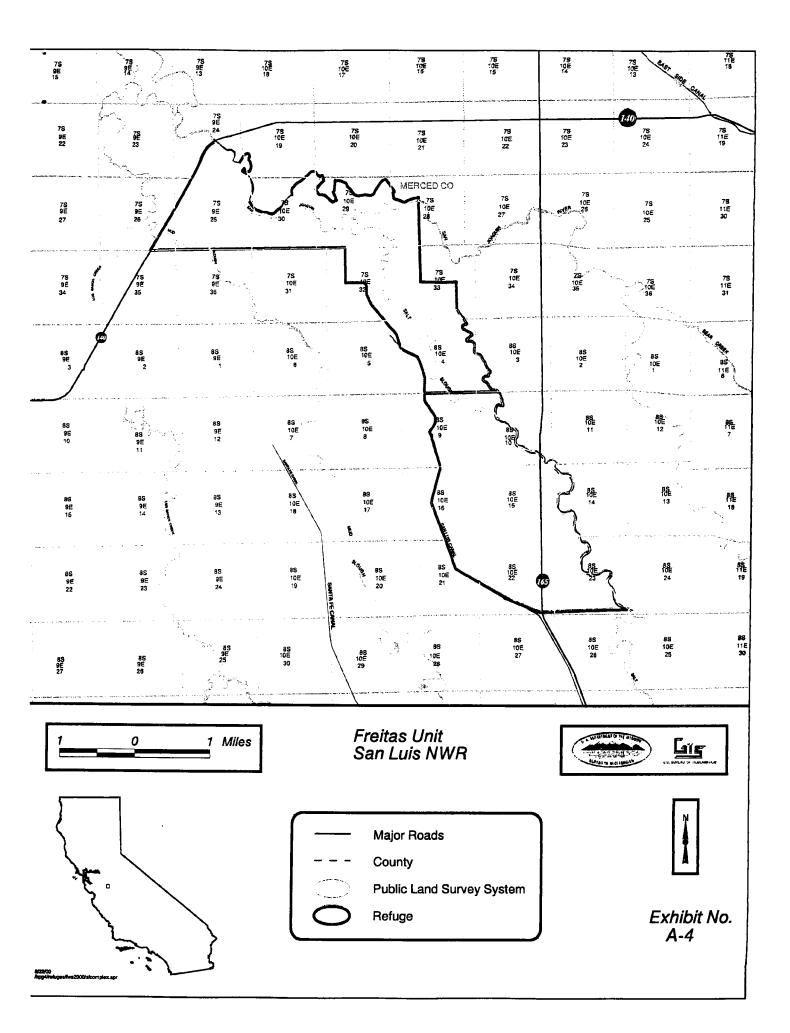
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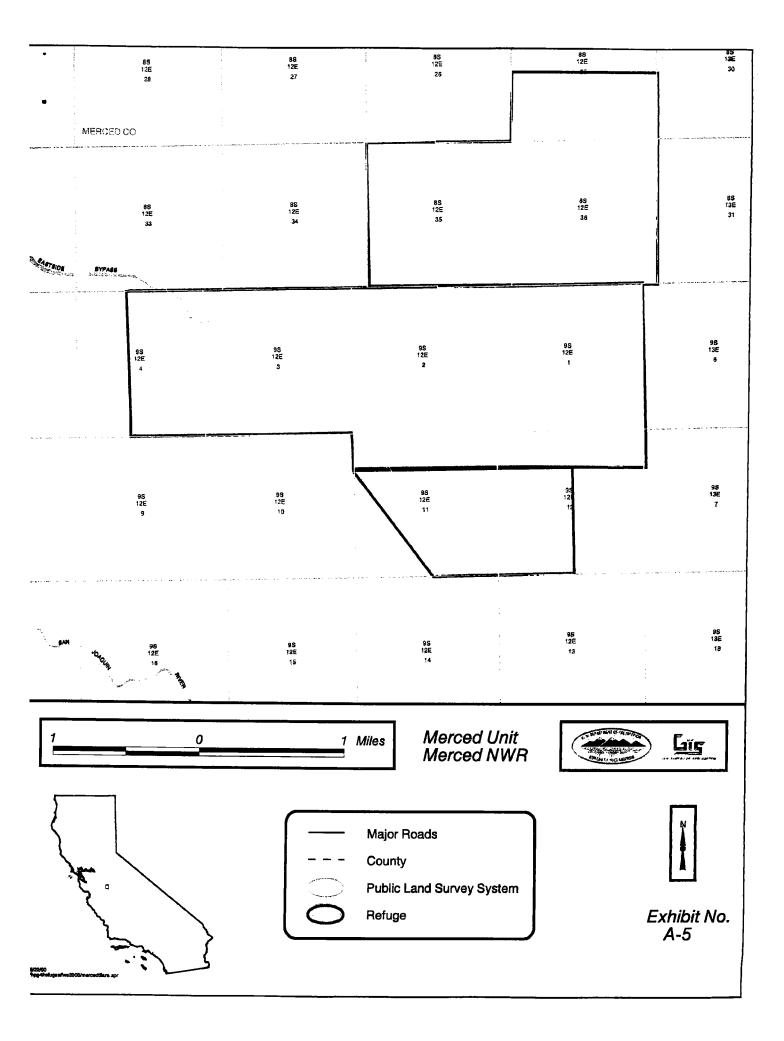
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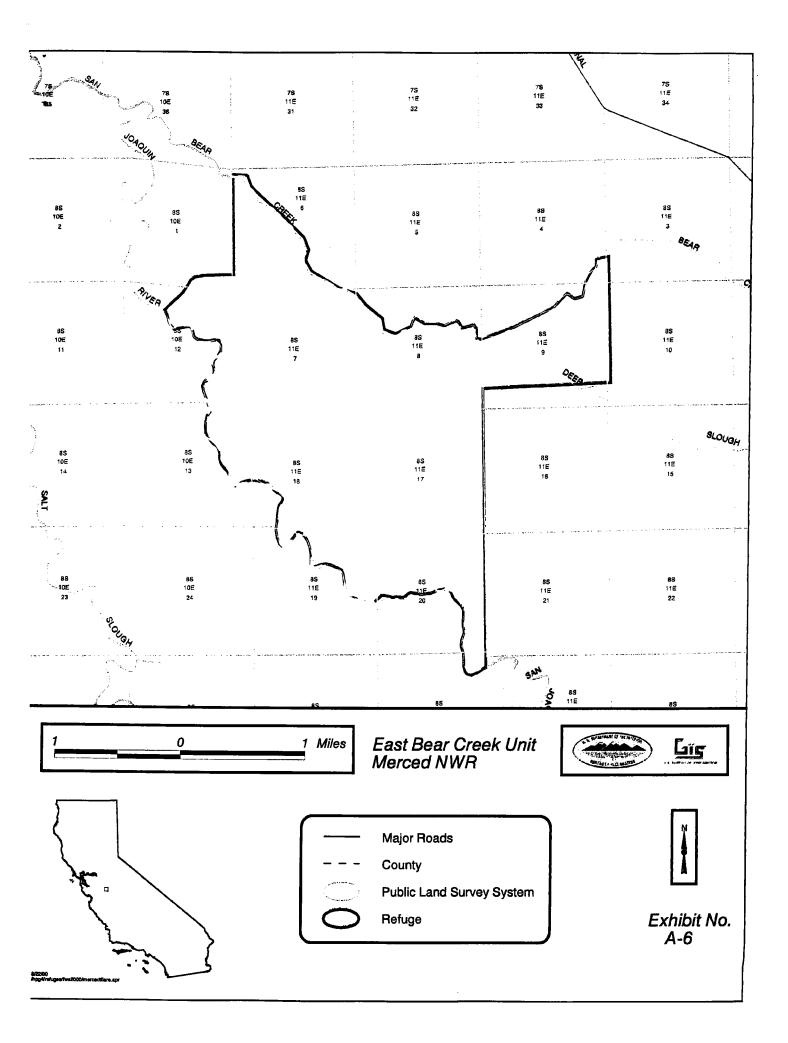


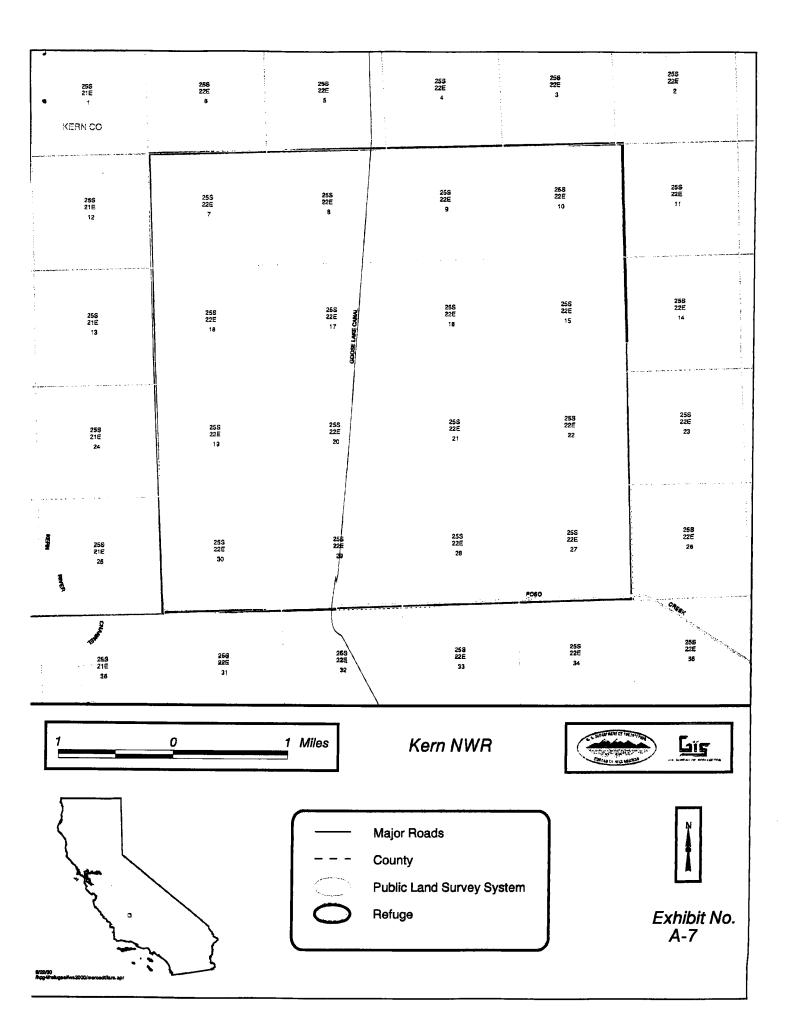


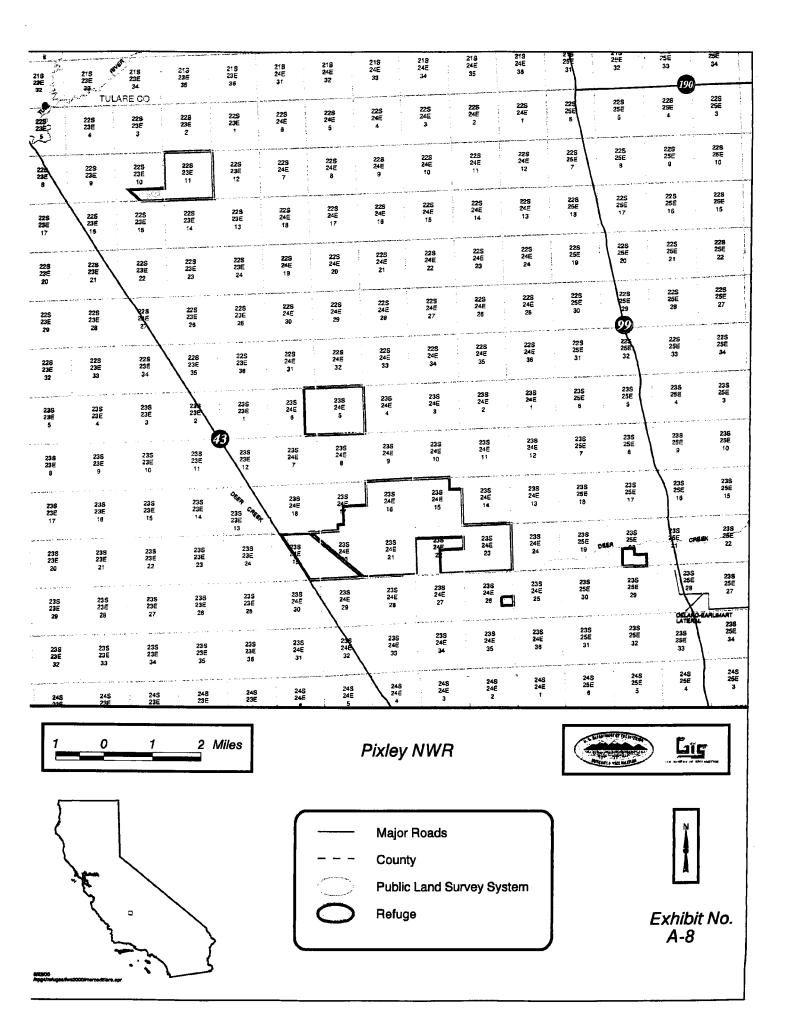












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Mr. Michael J. Spear Manager, California/Nevada Operations Office 2800 Cottage Way, Suite W-2606 Sacramento, California 95825-1846

Subject: Long-Term Refuge Water Supply Memorandum of Understanding - Contract No. 01-WC-20-1758 Between the U. S. Bureau of Reclamation and the U. S. Fish and Wildlife Service for Water Supplies to Units of the National Wildlife Refuge System in the San Joaquin Valley and the National Wildlife Refuges in the Tulare Lake Basin -Central Valley Project, California

Dear Mr. Spear:

Enclosed is an executed original of the subject memorandum of understanding for your records. This memorandum of understanding is to provide water supplies for the above referenced national wildlife refuges as identified in Section 3406(d) of the CVPIA through March 28, 2026. Reclamation appreciates the effort expended by the Fish and Wildlife Service and its representatives to assist in meeting these goals.

If you have any questions, please contact Buddy Smith at (209) 836-6279 (TDD 836-6282)

Sincerely,

(sgd) Lester A. Snow

Lester A. Snow Regional Director

Enclosure

be: Deputy Director, Office of Policy. Attention: D-5600 (M. Peterson). Assistant Solicitor, Water and Power Branch, Washington DC Regional Solicitor, Pacific Southwest Region Attention: J. Turner MP-410 (sry) MP-440 (nla) SCC-440 (J. Anderson) TO-440 (B. Smith) Operations Manager, Central Valley Operations Office (ea w/c encl) MP-3400 (w/original)