

INTRODUCTION/EXECUTIVE SUMMARY (NEW)

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ES.1 BACKGROUND OF THE REVISED EIR

In the 1980s, the California Department of Water Resources (Department or DWR) purchased approximately 20,000 acres of land overlying a groundwater basin in Kern County for the purpose of developing the property as one part of a larger imported-water groundwater banking project called the Kern Water Bank (KWB). As envisioned, the KWB would consist of a series of “elements,” which would be geographically separate banking projects that would be operationally integrated. The largest of these elements, the Kern Fan Element (KFE), for which efforts to develop occurred first, was to be followed by a number of local elements developed with several water districts in Kern County. The Department planned to develop the property it purchased into the KFE of the KWB, and the property is referred to as the KFE property. Uncertainties regarding the proposed groundwater storage facility ultimately led to the Department halting work on the KFE in 1994.

The Department transferred the KFE property to the Kern County Water Agency (KCWA) in 1995 as part of the Monterey Amendment, an amendment to the State Water Project (SWP) long-term water supply contract. KCWA, in turn, transferred the property to the Kern Water Bank Authority (KWBA). At the time of transfer, the Department had not put any SWP water into the KFE property for groundwater storage purposes.

An environmental impact report (EIR) on the Monterey Agreement was certified in 1995; challenged successfully in court; and led to the Department, the SWP contractors, and the plaintiffs executing the 2003 Settlement Agreement. As part of the 2003 Settlement Agreement, the Department, as lead agency under the California Environmental Quality Act (CEQA), prepared the EIR for the *Monterey Amendment to the State Water Project Contracts (Including Kern Water Bank Transfer) and Associated Actions as Part of a Settlement Agreement (Monterey Plus)* (Monterey Plus EIR). The Monterey Plus EIR evaluated the Monterey Amendment and Settlement Agreement, which included the KFE property transfer. The Department certified the Monterey Plus EIR on February 1, 2010. On May 5, the Department filed a Notice of Determination (NOD), explaining that it had determined, after review of the Monterey Plus EIR, to continue operating under the existing Monterey Amendment and the Settlement Agreement.

Several parties challenged the adequacy of the Monterey Plus EIR under CEQA. The Rosedale–Rio Bravo Water Storage District (Rosedale) and Buena Vista Water Storage District lawsuit challenged the EIR on the basis that it failed to analyze the use and operation of the KWB in compliance with CEQA. On March 5, 2014, the Sacramento County Superior Court (Court) issued its ruling in *Rosedale et al. v. California Department of Water Resources* (Sacramento County Superior Court Case No. 34-2010-80000703) (*Rosedale v. DWR*). The ruling found that the Monterey Plus EIR “fails to adequately describe, analyze, and (as appropriate) mitigate the potential impacts of the Project associated with the anticipated use and operation of the Kern Water Bank, particularly as to potential groundwater and water quality impacts.” On March 5, the Court also issued a ruling with regard to another lawsuit that challenged the adequacy of the Monterey Plus EIR on numerous grounds in *Central Delta Water Agency et al. v. Department of Water Resources* (Sacramento County Superior Court Case 34-2010-80000561) (*Central Delta v. DWR*). The Court found against plaintiffs on all grounds except with regard to the EIR’s analysis of the anticipated use and operation of the KWB.

On November 24, 2014, the Court issued a writ in *Rosedale v. DWR* and *Central Delta v. DWR* that specifies, among other things, that:

- (1) The use and operation of the Kern Water Bank is severed from the remainder of the Monterey Plus Project.
- (2) DWR shall vacate its February 1, 2010 certification of the Monterey Plus EIR.
- (3) DWR shall revise the Monterey Plus EIR's project description to include the development, use and operation of the Kern Water Bank as a water banking and recovery project, and revise the Monterey Plus EIR as necessary to correct the CEQA error with respect to the analysis of the potential impacts associated with the transfer, development, use and operation of the Kern Water Bank as a water banking and recovery project, as identified in the Court's Rulings on Submitted Matter (March 5, 2014). DWR's preparation of the revised Monterey Plus EIR shall be in accordance with the Court's rulings in the *Rosedale* and *Central Delta* matters.
- (4) DWR's May 2010 Monterey Plus Project decision as it related to the Kern Water Bank's use and operation will remain in place on an interim basis pending preparation of an adequate EIR. At the conclusion of the revised Monterey Plus EIR process, DWR (as lead agency) and KWBA (as responsible agency) shall make a new determination regarding whether to continue the use and operation of the Kern Water Bank by KWBA.
- (5) Except as otherwise provided in the writ, DWR may continue to implement the Monterey Plus Project and operate the State Water Project pursuant to the Monterey Amendment and the *PCL v. DWR* Settlement Agreement without limitation.
- (6) Until the writ is discharged, KWBA may continue to use and operate the Kern Water Bank lands as a water banking and recovery project subject to the following conditions: (i) existing Kern Water Bank operations shall be maintained, but not expanded; and (ii) the Kern Water Bank shall be subject to and operated in compliance with the "Interim Operations Plan" (see Appendix 7-5b) and the existing Kern Environmental Permits (as defined in the *PCL v. DWR* Settlement Agreement).
- (7) On or before December 31, 2014, DWR shall file an initial return reporting to the Court the steps and schedule it proposes to comply with this writ. Unless the Court orders otherwise for good cause, DWR must correct the deficiencies in the Monterey Plus EIR and recertify a revised Monterey Plus EIR by December 31, 2015 [the court extended the date to June 30, 2016 at the request of DWR].
- (8) DWR shall lodge with the Court: (i) the revised Monterey Plus EIR, (ii) DWR.'s certification of and findings, regarding same, and (iii) the record of proceedings for that administrative action. The Court will conduct a substantive review of the same for compliance with the writ. Only those portions of the revised Monterey Plus EIR that are new or changed shall be subject to challenge under CEQA by petitioners or other interested parties. No other challenges that were raised or could have been raised with respect to the Monterey Plus EIR may be raised in any challenge to the revised Monterey Plus EIR.

The Department decertified the EIR on December 11, 2014, and has prepared this Monterey Plus Revised EIR (REIR) in response to the Court ruling and in accordance with Public Resources Code Section 21168.9.

ES.2 PURPOSE OF THE REVISED EIR

The Monterey Plus EIR was found by the Court to comply with CEQA requirements in all aspects except with respect to the treatment of certain aspects of the KFE of the proposed project analyzed in the Monterey Plus EIR. The Court has specified that the Department is to correct the deficiencies and recertify the EIR without reopening the non-defective portions of the EIR. Therefore, the changed and new sections of the Monterey Plus REIR are limited in scope to the Court's directives regarding the KWB. More specifically, the Monterey Plus REIR is intended to:

- expand the project description to include the transfer of property known as the KFE property in Kern County, and its development and continued use and operation as a locally owned and operated groundwater banking and recovery project (KWB activities).
- describe the environmental setting related to the KWB;
- discuss, analyze, and disclose all potentially significant and significant direct, indirect, and cumulative environmental impacts on the physical environment, particularly with respect to groundwater and water quality, associated with KWB activities;
- describe feasible mitigation measures, which could minimize any potentially significant and significant adverse impacts; and
- provide the public with information regarding the transfer of the KFE property and the development and continued use and operation of the KWB, and the opportunity to comment on the new information contained in the REIR to facilitate informed public participation and decision-making.

Following completion of the public review process for the Monterey Plus Draft REIR and preparation and circulation of the Monterey Plus Final REIR, the Department (as lead agency) will consider taking the following actions:

- certify the Monterey Plus Final REIR (CEQA Guidelines Section 15090),
- adopt a revised mitigation monitoring and reporting program with respect to any mitigation measures (CEQA Guidelines Section 15091[d]),
- adopt revised findings with respect to any significant environmental effects (CEQA Guidelines Section 15091),
- adopt a revised statement of overriding considerations with respect to any significant and unavoidable impacts (CEQA Guidelines Section 15093),
- make a new determination with KWBA (as a responsible agency) with regard to whether or not to continue the use and operation of the KWB by KWBA, after compliance with CEQA, and
- file a notice of determination (CEQA Guidelines Section 15094).

ES.3 SCOPE AND CONTENT OF THE REVISED EIR

SCOPE

The revised and new sections of the Monterey Plus REIR are limited in scope and focus on fully addressing and correcting previous EIR deficiencies with respect to evaluating environmental impacts associated with KWB transfer, development, and continued use and operation. While the REIR addresses all potentially significant environmental impacts, the focus is on groundwater and water quality impacts. The geographic area covered is primarily centered on KWB Lands. However, the

geographic area covered goes beyond the property boundaries as necessary to evaluate potentially significant impacts.

For these reasons, the Department has developed this three-volume Monterey Plus Draft REIR. Document A1 presents all the changes to the Monterey Plus EIR made as a result of the Department's reanalysis of the KFE property transfer and new analysis of the KWB development and continued use and operation. Since DWR decertified the Monterey Plus EIR, pursuant to the Court's order, the REIR also includes, without modification, the 2007 Draft EIR (Document B, including Volumes I and II) and the 2010 Final EIR (Document C, including Volumes I and II). Together, the three documents constitute the Monterey Plus Draft REIR. Figure P-1 at the end of the preface can be used to help the reader with the layout of the three documents of the REIR.

The focus of public review and comment should be on Document A1 since public comments will only be considered on the revised and new text, contained entirely within Document A1. Document A2, the Monterey Plus Final REIR, will be prepared in the future after receiving public comment on Document A1.

The proposed project analyzed in the Monterey Plus EIR was the Monterey Amendment and the Settlement Agreement. The Monterey Plus EIR considered five "elements" of the Monterey Amendment as follows:

- Changes in the procedures for allocation of Table A water and surplus water among the SWP contractors;
- Approval to permanent transfers of 130,000 acre feet and retirement of 45,000 acre-feet of SWP long-term water supply contracts' Table A amounts;
- Transfer of property known as the "Kern Fan Element property" in Kern County;
- Water supply management practices; and
- Restructured water rates.

This REIR has changed the description of the Kern Fan Element property transfer to be:

- Transfer of property known as the "Kern Fan Element property" in Kern County, and its development and continued use and operation as a locally owned and operated groundwater banking and recovery project.

There are no revisions to the other elements of the Monterey Amendment or of the Settlement Agreement, and no changes have been made relating to them in this REIR.

To be consistent with the terminology of the Monterey Plus EIR, this REIR will use the following terms:

- Kern Fan Element (KFE) property when referring to the property before its transfer to the Kern County Water Agency/Kern Water Bank Authority (KCWA/KWBA);
- "Kern Water Bank" or KWB when referring to the groundwater bank;
- "KWB Lands" when referring to the property after its transfer to KCWA/KWBA; and
- "KWB activities" when referring to the development and continued use and operation of the KFE property after it was acquired by KWBA, as described in Sections V-VI of the Revised Appendix E.

This REIR does not supersede the analysis of the Monterey Plus EIR but supplements the Monterey Plus EIR. The Monterey Plus EIR focused on the transfer of the KFE property. This REIR did not identify any

new impacts or changes to impacts caused by the transfer of the KFE property; therefore, the Monterey Plus EIR fully disclosed all impacts caused by the transfer of the KFE property. Consequently, this REIR is focused on the development and continued use and operation of the KWB as a locally owned and operated groundwater banking and recovery project (“KWB activities”).

CONTENT

This Draft REIR (Document A1) uses the same chapter numbering as the 2007 Monterey Plus DEIR (DEIR). Where appropriate, text from the DEIR related to KWB activities is copied in its entirety into the REIR with any changes shown in underline or ~~strikeout~~ mode. Where most, if not all of a chapter or section has been changed, the chapter or section is identified and included as a “new” section. No changes have been made to Chapters 1 (Introduction), 2 (State Water Project), 3 (History and Background), 5 (Methods), 6 (Effects of Proposed Project on SWP and SWP Contractors), 9 (Reliability of Water Supplies and Growth), and 11 (Alternatives) of the DEIR. In addition, no appendices from the DEIR have been changed except Appendix E (Study of Transfer, Development, and Operation of the Kern Water Bank), which has been updated and revised and is included at the end of REIR Volume 1 as Appendix E (Revised). Most resource sections are new, but the following resource sections are revised:

- Section 7.4 (Terrestrial Biological Resources)
- Section 7.9 (Recreation)
- Section 7.12 (Noise)
- Section 7.15 (Traffic and Transportation)

New groundwater modeling was conducted to evaluate KWB operations and provides an important basis for the evaluation of KWB operations on groundwater hydrology and water quality in Sections 7.1 and 7.2, respectively.

ES.4 LEAD, RESPONSIBLE, AND TRUSTEE AGENCIES

The Department is the lead agency under CEQA for preparing this REIR. KWBA is a responsible agency under CEQA for the KWB activities of the proposed project. Trustee agencies with potential jurisdiction by law over the KWB activities of the proposed project or the resources affected by it include the California Department of Fish and Wildlife, the California State Water Resources Control Board, Central Valley Regional Water Quality Control Board, the State Historic Preservation Office, and the Department of Food and Agriculture.

ES.5 PUBLIC REVIEW PROCESS FOR THE REVISED EIR

The public review process for the Monterey Plus Draft REIR is as follows:

1. This Monterey Plus Draft REIR is being circulated for public review and comment for a period of at least 45 days (April 28, 2016 – June 13, 2016).
2. The Department will provide responses in its Monterey Plus Final REIR only to public comments on the Draft REIR (Document A1), including all Document A1 appendices.
3. Written comments on this Draft REIR must be postmarked or delivered by June 13, 5:00 p.m., and addressed to:

Karen Dulik
 Environmental Program Manager
 California Department of Water Resources
 South Central Region Office
 3374 East Shields Avenue
 Fresno, CA 93726

Written comments can also be provided by 5:00 p.m. on June 13, by e-mail to Karen.dulik@ca.water.gov or by fax to Karen Dulik at (559) 230-3301.

Information about the Court rulings and the REIR process, including the Monterey Plus Draft REIR and the Monterey Plus Final REIR, will be posted on the Internet at:

<http://www.water.ca.gov/environmentalservices/montereyplusrevisedeir.cfm>

This site will also be used to post all public documents during the environmental review process and to announce upcoming public meetings.

During the public review period, the Monterey Plus Draft REIR, including its technical appendices and all pages from documents referenced in the Draft REIR, will also be available for review at the locations listed below.

Beale Memorial Library
 701 Truxtun Avenue
 Bakersfield, CA 93301

Colusa County Library
 738 Market Street
 Colusa, CA 95932

Mary L. Stephens Davis Branch
 Library
 315 E. 14th Street
 Davis, CA 95616

El Centro Public Library
 Community Center Branch
 1140 N. Imperial Ave.,
 El Centro, CA 92243

Fairfield Civic Center Library
 1150 Kentucky Street
 Fairfield, CA 94533

Fremont Library
 2400 Stevenson Boulevard
 Fremont, CA 94538

Hanford Branch Library
 401 North Douty Street
 Hanford, CA 93230

Los Angeles Public Library
 Central Library
 630 West 5th Street
 Los Angeles, CA 90071

Merced County Library
 Merced Branch
 2100 O Street
 Merced, CA 95340

Modesto Public Library
 1500 I Street
 Modesto, CA 95354

Napa Main Library
 580 Coombs Street
 Napa, CA 94559

Oroville Branch Library
 1820 Mitchell Avenue
 Oroville, CA 95966

Pleasant Hill Library
 1750 Oak Park Boulevard
 Pleasant Hill, CA 94523

Quincy Public Library
 445 Jackson Street
 Quincy, CA 95971

Red Bluff Library
 645 Madison Street
 Red Bluff, CA 96080

Redding Library
 1100 Parkview Avenue
 Redding, CA 96001

Riverside Public Library
 Main Library
 3581 Mission Inn Avenue
 Riverside, CA 92501

Sacramento Public Library
 Central Library
 828 I Street
 Sacramento, CA 95814

Norman F. Feldheym Central
 Library
 555 West 6th Street
 San Bernardino, CA 92410

San Diego Public Library
 Central Library
 330 Park Blvd.
 San Diego, CA 92101

Dr. Martin Luther King, Jr.
Library
150 East San Fernando Street
San Jose, CA 95112

Visalia Branch Library
200 West Oak Avenue
Visalia, CA 93291

California Department of Water
Resources
South Central Region Office
3374 E. Shields Avenue
Fresno, CA 93726

Central Library
40 East Anapamu Street
Santa Barbara, CA 93101

Willows Public Library
201 North Lassen Street
Willows, CA 95988

Cesar Chavez Central Library
605 N. El Dorado Street
Stockton, CA 95202-1907

Sutter County Library
Main Branch
750 Forbes Avenue
Yuba City, CA 95991

E. P. Foster Library
651 East Main Street
Ventura, CA 93001

Betty Rodriguez Regional Library
3040 N. Cedar Avenue
Fresno, CA 93703

Two public participation hearings will be held to allow the public to provide comments on the Draft REIR. For more information on the public hearings or on the Draft REIR, the Department's Karen Dulik may be contacted at the contact information presented above.

DATE, TIME, AND LOCATION OF PUBLIC HEARINGS ON THE DRAFT REVISED EIR		
Date	Time	Location
June 1, 2016	6-8pm	Woodward Park Library, 944 E. Perrin Avenue, Fresno, CA 93720
June 2, 2016	5-7pm	Clarion Hotel, 3540 Rosedale Highway, Bakersfield, CA 93308

Upon completion of the 45-day public review period, public comments and written responses to significant public comments will be prepared and incorporated into the Monterey Plus Final REIR, including any revisions to the Monterey Plus Draft REIR made in response to agency and/or public comments.

In compliance with the Court's November 2014 writ, the Department anticipates that upon taking actions described in section ES.2 above, the Department would then submit to the Court: the REIR, DWR's certification and findings regarding same, and the record of proceedings for that administrative action. DWR also anticipates that the Court, as ordered in the writ, "will conduct a substantive review of the same." Any person who may seek judicial review of the REIR should seek to participate in that proceeding.

ES.6 ENVIRONMENTAL IMPACTS

The impacts of KWB activities were analyzed for all relevant resource areas contained within the CEQA Guidelines, Appendix G, Environmental Checklist Form. These resources are: surface water and groundwater hydrology; surface water and groundwater quality; fisheries resources; terrestrial biological resources; visual resources; agricultural resources; air quality; geology, soils, and mineral resources; recreation; land use and planning; hazards and hazardous materials; noise; cultural and paleontological resources; public services and utilities; traffic and transportation; energy, and climate change. Cumulative impacts for these resource areas were also analyzed.

The results of the analysis are summarized in Table ES-1. Results for the periods 1996 through 2014 and for 2015 through 2030 (2035 for surface water and groundwater hydrology and quality) are listed separately. The levels of significance of the environmental impacts from KWB activities before and after

the application of mitigation measures are also shown in Table ES-1. Appendix 7-2a describes known areas of controversy.

Impacts - 1996-2014

Less-than-Significant Impacts

KWB activities had less-than-significant impacts between 1996 and 2014 on surface water and groundwater hydrology; surface water and groundwater quality; fisheries resources; terrestrial biological resources; visual resources; agricultural resources; air quality; geology, soils, and mineral resources; recreation; land use and planning; hazards and hazardous materials; noise; cultural and paleontological resources; public services and utilities; traffic and transportation; energy; and climate change.

Significant Impacts

KWB activities had no potentially significant or significant impacts between 1996 and 2014.

Significant and Unavoidable Impacts

KWB activities had no significant and unavoidable impacts between 1996 and 2014.

Impacts – 2015-2030

Less-than-Significant Impacts

KWB activities would have less-than-significant impacts between 2015 and 2030 on fisheries resources, visual resources, agricultural resources, air quality, recreation, land use and planning, noise, public services and utilities, and traffic and transportation.

Significant Impacts

KWB activities would have potentially significant or significant impacts before mitigation between 2015 and 2030 on surface water and groundwater hydrology (2015-2035); surface water and groundwater quality (2015-2035); terrestrial biological resources; geology, soils, and mineral resources; hazards and hazardous materials; cultural and paleontological resources; energy; climate change; and cumulative impacts related to growth.

Significant and Unavoidable Impacts

All significant and unavoidable impacts from KWB activities would be cumulative impacts related to growth. Because a portion of KWB water was provided by Improvement District No. 4 and Tejon-Castac Water District to several development projects, KWB activities would make a cumulatively considerable incremental contribution to the following cumulative impacts found to be significant and unavoidable for these projects (Impact 10.1-69):

- Aesthetics—Cumulatively considerable contributions to significant cumulative impacts related to visual changes from regional development, including along Interstate 5 and the Lebec Road interchange and introduction of new sources of light and glare.
- Air Quality and Climate Change—cumulative impacts on regional emissions of particulate matter with an aerodynamic resistance diameter less than 10 micrometers (PM₁₀), reactive organic gases (ROG), and nitrogen oxides (NO_x) that exceed San Joaquin Valley Air Pollution

Control District thresholds; and cumulatively considerable contributions to significant cumulative impacts associated with greenhouse gas (GHG) emissions that do not meet Assembly Bill 32 GHG reduction requirements.

- Agricultural Resources—Conversion of over 1,000 acres of Farmland of Statewide Importance to nonagricultural urban uses.
- Biological Resources—Cumulatively considerable contributions to significant cumulative impacts on the California condor population levels and range.
- Noise—Long-term exposure of sensitive receptors, and rural residences along Wheeler Ridge Road to increased noise from vehicular-related traffic and cumulatively considerable contributions to significant cumulative impacts on traffic noise that already exceed the County's General Plan noise standards.
- Population and Housing—Cumulatively considerable contributions to significant cumulative impacts from increases in population and housing relative to existing conditions.
- Public Services—Cumulatively considerable contributions to significant cumulative impacts related to generation of solid waste that exceed landfill capacity.
- Transportation and Traffic—Cumulatively considerable contributions to significant cumulative impacts from increases in traffic at intersections and freeway segments from regional development.

There are no feasible mitigation measures or alternatives available to mitigate these impacts to less-than-significant levels. Moreover, the Department and KWBA lack the authority to approve or deny development projects or to impose mitigation to address significant environmental impacts associated with development projects; that authority resides with local cities and counties. See Chapter 8, Growth-Inducing Impacts, and Section 10.1, Cumulative Environmental Impacts, for further discussion of these impacts.

TABLE ES-1

MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation		
	1996-2014	2015-2030*		1996-2014	2015-2030*	
7.1 Surface Water and Groundwater Hydrology						
7.1-1	KWB Operations could potentially deplete groundwater supplies so that a net deficit in aquifer volume of stored groundwater would occur.	LTS	LTS	7.1-1 None required.	NA	NA
7.1-2	KWB operations could potentially deplete groundwater supplies so that a lowering of the local groundwater table level would occur (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted).	LTS	PS	7.1-2 KWBA will establish a program that meets the following requirements in accordance with the Long-Term Project Recovery Operations Plan regarding the Kern Water Bank Project (2016 KWB Long-Term Operations Plan, Appendix 7-5c): A. Monitor and Report Groundwater Conditions to KWBA's Board of Directors and the Public 1) KWBA will monitor groundwater levels monthly, except during periods of no recovery when monitoring will occur at least quarterly. KWBA may rely on monitoring conducted by the Kern Fan Monitoring Committee to meet these requirements. 2) KWBA will report current groundwater levels to its Board of Directors at each monthly regular meeting, and will make the reports available to the public on its website (http://www.kwb.org/). 3) KWBA will regularly update its Groundwater Model (Model) to actual conditions and use the Model to project future groundwater conditions. KWBA will endeavor to use the best practicable science and latest information available in all modeling and technical matters. KWBA will report the results of its modeling to its Board of Directors and will make the results available to the public on its website	NA	LTS

LTS = Less than Significant
 PSU = Potentially Significant and Unavoidable

PS = Potentially Significant
 BE = Beneficial Effect

NI = No Impact
 NA = Not Applicable

TABLE ES-1

MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
			<p>http://www.kwb.org/). Recovery of banked groundwater in any calendar year beyond March 15 of that year shall not commence (or continue) until the Model has been run for projected KWB operations and the results have been reported to KWBA's Board of Directors and made available to the public. Because model data for a preceding year becomes available at different times in the following year, modeling at the beginning of any given year will necessitate estimating certain model input data for the preceding year (e.g., Kern River losses). These estimates will be replaced with actual data at regular intervals when the model is updated.</p> <p>B. Implement Proactive Measures (in addition to A above)</p> <ol style="list-style-type: none"> 1) KWBA will use its Model as a tool to evaluate potential groundwater impacts resulting from its project operations. The Model will be periodically run and updated as projected recovery plans become known or changed and the Model will assume such conditions as described in A.3. 2) The Model will be used to: <ol style="list-style-type: none"> a) Forecast groundwater levels. b) Forecast and predict the contribution of KWB Operations to groundwater level declines in the area. c) Determine water level conditions with "Without KWB Operations" for purposes of 		

LTS = Less than Significant
 PSU = Potentially Significant and Unavoidable

PS = Potentially Significant
 SU = Significant and Unavoidable

NI = No Impact
 NA = Not Applicable

TABLE ES-1

MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
			<p>evaluating the potential impact of “With KWB Operations”. The “Without KWB Operations” is the water level that would have been at any particular well location absent “KWB Operations.”</p> <p>d) Identify, based upon an analysis of “Without KWB Operations” versus “With KWB Operations,” if a negative potential impact (“NPI”) has or is likely to occur for which the measures described at D, E, and F may be operative. NPI is determined according to C.1 below.</p> <p>e) Forecast any localized areas for special attention and/or additional monitoring where groundwater levels will decline 30 or more feet below the “Without KWB Operations” groundwater level.</p> <p>f) Identify wells at risk of potential impacts during recovery operations.</p> <p>1) KWBA will provide notification on its website if the Model shows that an NPI has or is likely to occur, including steps that potentially affected landowners must follow if the landowner desires to make a claim to KWBA regarding potential well impacts due to KWBA’s recovery operations.</p> <p>C. Implement Triggers and Actions</p>		

LTS = Less than Significant
 PSU = Potentially Significant and Unavoidable

PS = Potentially Significant
 SU = Significant and Unavoidable

NI = No Impact
 NA = Not Applicable

TABLE ES-1

MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
			<p>The actions described in sections D, E, and F will be implemented in consultation with affected landowners/well owners that make a claim to KWBA regarding well impacts relating to KWBA's recovery operations and groundwater level declines, subject to the following:</p> <ol style="list-style-type: none"> 1) The trigger for mitigation shall be based upon an analysis and comparison of Model generated "Without KWB Operations" versus "With KWB Operations." When "With KWB Operations" are 30 feet deeper than the "Without KWB Operations" at an operative well, and the well has (or is expected to) experience mechanical failure or other operational problems due to declining water levels, a negative potential impact ("NPI") is triggered. If KWBA enters into a joint operations agreement with other water banks in the area, the depth at which a NPI is triggered shall provide an equivalent measure of potential impact as described in the 2016 KWB Long-Term Operations Plan (Appendix 7-5c). 2) For a well owner to be eligible for mitigation as provided below, the affected landowner shall submit a claim to KWBA, in accordance with the Government Claims Act, which shall, at a minimum, provide information concerning the condition of the well and casing and pumping equipment of the well, and other information that is relevant to the landowner's claim. Upon receipt of a claim, KWBA 		

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 PSU = Potentially Significant and Unavoidable

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 SU = Significant and Unavoidable

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 NA = Not Applicable

TABLE ES-1

MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
			<p>shall use the Model (or the results of modeling as reported to the Board and the public) to determine whether an NPI exists at the landowner's well and respond with the appropriate action described below.</p> <p>3) KWBA will provide mitigation and/or compensation for the KWB Operations' contribution to the adverse impact. Mitigation and/or compensation is not required for a well owner's lack of well maintenance, normal wear and tear, depreciation, failure of well equipment, well casing degradation, etc., or other reasons not relating to KWB Operations.</p> <p>D. Implement Action for Agricultural Wells When Well Adjustment Is Needed and Available</p> <p>1) Trigger: When the Model predicts NPI for an operational agricultural well outside the current operating range of the pump but within the potential operating range of the well.</p> <p>2) KWBA actions will be completed within 60 days (provided that the land/well owner cooperates) from receipt of a claim as follows:</p> <p>a) Field verify (with the affected landowner if requested) static depth to groundwater levels within the well and compare to Model values to determine if flow stoppage is due to groundwater level decline due to KWB operations. If needed:</p>		

LTS = Less than Significant
 PSU = Potentially Significant and Unavoidable

PS = Potentially Significant
 SU = Significant and Unavoidable

NI = No Impact
 NA = Not Applicable

TABLE ES-1

MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
			<ul style="list-style-type: none"> • Obtain right-of-entry permit and well data release from well owner. • Collect pump manufacturer data, the in-situ pump setting, and casing depth information. <p>b) Compare pump setting information with Model projected pumping water levels throughout the year to determine pump submergence levels and evaluate the necessity and feasibility of lowering the well pump to meet the landowner's needs to provide the least-cost short and long-term solution.</p> <p>c) Develop a cost estimate to complete the necessary work.</p> <p>d) Develop and submit a report to the landowner informing the landowner of the findings and proposed actions, including denying the claim because groundwater declines are not due to KWB operations.</p> <p>3) At KWBA's option, it may reduce or adjust pumping of its wells as necessary to prevent, avoid, or eliminate the NPI, using the Model to identify the well or wells that may require reduction or adjustment in pumping.</p> <p>4) If groundwater declines are due to KWB operations, unless D.3 occurs, once agreement is reached between KWBA and the landowner pursuant to</p>		

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	1996-2014	2015-2030*		1996-2014	2015-2030*
			<p>D.2.b and all cost estimates have been completed, pay costs associated with the landowner claim (considering C.3 above), including the cost to complete the necessary work.</p> <p>E. Implement Action for Agricultural Wells When Well Adjustment Is Unavailable</p> <p>1) Trigger: When the Model predicts NPI for an operational agricultural well outside the current and potential operating range of the well.</p> <p>2) KCWA actions will be completed within 60 days (provided that the land/well owner cooperates) from receipt of a claim as follows:</p> <p>a) Field verify (with the affected landowner if requested) static depth to groundwater levels within the well and compare to Model values to determine if flow stoppage is due to groundwater level decline due to KWB operations. If needed:</p> <ul style="list-style-type: none"> • Obtain right-of-entry permit and well data release from well owner. • Collect pump manufacturer data, the in-situ pump setting, and casing depth information. <p>b) Identify water of an equivalent water quantity and quality suitable for agricultural uses for the affected landowner from an alternate source at no greater cost to the affected landowner or, with the consent of the</p>		

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			<p>affected landowner, identify acceptable mitigation (for example, drill and equip a new well) to provide the least-cost short- and long-term solution, including an estimate to complete the necessary work.</p> <p>Develop and submit a report to the landowner informing the landowner of the findings and resulting proposed actions, including denying the claim because groundwater declines are not due to KWB operations.</p> <p>3) At KWBA's option, it may reduce or adjust pumping of its wells as necessary to prevent, avoid, or eliminate the NPI using the Model to identify the well or wells that may require reduction or adjustment in pumping.</p> <p>4) If groundwater declines are due to KWB operations, unless E.3 occurs, once an agreement is reached between KWBA and the landowner to provide mitigation pursuant to E.2.b and all cost estimates have been completed, pay costs associated with the landowner claim (considering C.3 above), including the cost to complete the necessary work.</p> <p>F. Implement Action for Domestic Wells</p> <p>1) Trigger: When the Model predicts NPI for a domestic well that is outside the current operating range of the pump but within the potential operating range of the well production.</p> <p>2) KWBA's actions will be completed within 60 days</p>		

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			<p>(provided that the land/well owner cooperates) from receipt of a claim as follows:</p> <p>a) Field verify (with the affected landowner if requested) static depth to groundwater levels within the well and compare to Model values to determine if flow stoppage is due to groundwater level decline. If needed:</p> <ul style="list-style-type: none"> • Obtain right-of-entry permit and well data release from well owner. • Collect pump manufacturer data, the in-situ pump setting, and casing depth information. <p>b) Identify availability and cost of a permanent connection to the nearest water service provider.</p> <p>c) Identify acceptable mitigation (for example, lower the domestic submersible pump bowl setting sufficient to restore and maintain service or drill and equip a new well that complies with applicable county well standards) to provide the least-cost short- and long-term solution, including an estimate to complete the necessary work.</p> <p>d) Develop and submit a report to the landowner informing the landowner of the findings and resulting proposed actions, including denying the claim because groundwater declines are not due to KWB operations.</p>		

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			e) If necessary for emergency health and safety concerns, provide interim in-home water supplies within 14 days after receipt of the claim until a permanent mitigation action is implemented or the claim has been denied because groundwater declines are not due to KWB operations. 3) At KWBA's option, it may reduce or adjust pumping of its wells as necessary to prevent, avoid, or eliminate the NPI using the Model to identify the well or wells that may require reduction or adjustment in pumping. 4) If groundwater declines are due to KWB operations, unless F.3 occurs, once an agreement is reached for KWBA to provide mitigation pursuant to F.2.c above and all cost estimates have been completed, pay costs associated with the landowner claim (considering C.3 above), including the cost to complete the necessary work.		
7.1-3 Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site.	LTS	LTS	7.1-3. None required.	NA	NA

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7.1-4 Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map.	NI	NI	7.1-4 None required.	NA	NA
7.1-5 Place within a 100-year flood hazard area structures that would impede or redirect flood flows.	LTS	LTS	7.1-5 None required.	NA	NA
7.1-6 Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam; or cause inundation by seiche, tsunami, or mudflow.	NI	NI	7.1-6 None required.	NA	NA
7.1-7 Raise groundwater levels sufficiently to substantially impact existing infrastructure (e.g., Cross Valley Canal).	LTS	PS	7.1-7 KWBA will implement the following measures in accordance with the KCWA and KWBA CVC Agreement (Appendix 7.5e): a) KWBA will monitor water levels frequency, evaluating groundwater conditions on a weekly/monthly basis. b) KWBA will coordinate water operations with KCWA. c) KWBA will manage recharge operations to help ensure that groundwater gradient is away from the CVC during shallow groundwater conditions. Should groundwater conditions develop that might induce piping behind the CVC's liner, KWBA will minimize recharge adjacent to the CVC either by	NA	LTS

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			reducing inflow to adjacent ponds or increasing the setbacks of adjacent ponds.		
7.1-8 Raise groundwater levels sufficiently to substantially impact existing infrastructure (e.g., septic systems).	LTS	LTS	7.1-8 None required.	NA	NA
7.1-9 Raise water levels in a groundwater basin sufficiently to substantially interfere with groundwater recharge.	LTS	LTS	7.1-9 None required.	NA	NA
7.2 Surface Water and Groundwater Quality					
7.2-1 KWB construction and maintenance activities could potentially change groundwater quality.	LTS	PS	7.2-1 KWBA will implement the following measures: a) Comply with Mitigation Measure 7.11-1(a). b) Comply with Mitigation Measure 7.8-1(a). c) Comply with Kern County Environmental Health Program under which new wells and well deepening, reconstruction, and destruction would be subject to permits requiring compliance. (see Section 7.0.4.1.6).	NA	LTS
7.2-2 KWB operations could mobilize contamination in soils or the unsaturated zones associated with hazardous waste sites or oil and gas production operations and potentially degrade groundwater quality.	LTS	PS	7.2-2 KWBA will implement the following measures: a) Comply with Mitigation Measure 7.11-3. b) Hazardous waste sites would be subject to the county public health department and/or the CVRWQCB oversight with the responsible parties (see Section 7.0.4.1.7). KWBA will cooperate with the regulatory agency(s) during the process and provide pertinent groundwater elevations and water	NA	LTS

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			quality data the regulatory agencies may request. c) On an annual basis, KWBA shall report the status of shallow groundwater level monitoring activities and water quality analysis in areas of contamination to the Kern Fan Monitoring Committee. d) KWBA will continue to monitor and evaluate the nature and extent of any current and future contamination and remediation within KWB Lands as follows: (i) For all evaluation and monitoring activities performed by third parties on KWB Lands, KWBA shall obtain reports and sampling data as soon as they become available. Monitoring and evaluation shall continue until verification by third party documentation, regulatory correspondence, and/or laboratory analysis is obtained that indicates soil or groundwater contamination has been remedied and no longer provides a threat to groundwater quality. (ii) On an annual basis, KWBA shall report the status of contamination for each issue and provide water quality data monitoring activities, where available, to the Kern Fan Monitoring Committee. Any newly discovered contamination shall be reported to the Kern Fan Monitoring Committee immediately.		

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7.2-3 The operation of oil and gas production wells within and surrounding KWB Lands could potentially degrade the quality of KWB water supplies.	LTS	PS	7.2-3 KWBA will implement the following measures: a) Prior to construction, identify all plugged and abandoned wells through agency contacts. This includes identification of abandoned wells through the DOGGR website, field verification of an abandoned well prior to construction, notifying DOGGR of intent to construct a recharge pond adjacent to or over an abandoned well. b) Modify excavation and grading activities to ensure the near surface seals and wellhead remain undamaged. c) If the top of an abandoned well or wellhead is damaged during pond construction, appropriate authorities (i.e., DOGGR, CVRWQCB, and/or Kern County Environmental Health) will be notified as to the nature and extent of the damage along with plans to repair the damage, as needed and in accordance with existing regulations.	NA	LTS
7.2-4 KWB recharge and recovery operations could potentially change water quality in the underlying aquifer as a result of lateral and vertical migration of low quality water within and outside the limits of the KWB.	LTS	LTS	7.2-4 None required.	NA	NA

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7.2-5 Kern Water Bank operations could potentially degrade water quality in the underlying aquifer as a result of an accumulation of salts during recharge activities.	LTS	LTS	7.2-5 None required.	NA	NA
7.2-6 KWB construction, development, and maintenance could potentially change water quality in the Kern River.	LTS	PS	7.2-6 KWBA will implement Mitigation Measures 7.2-1, 7.2-2, 7.2-3, 7.8-1(a) and (b), and 7.11-2.	NA	LTS
7.2-7 Continued use and operations of the KWB could potentially adversely impact water quality in surface water conveyance facilities and associated water supplies for downstream users.	LTS	LTS	7.2-7 None required.	NA	NA
7.3 Fisheries Resources					
7.3-1 KWB operations could potentially entrain or harm fish species of special concern.	LTS	LTS	None required.	NA	NA
7.4 Terrestrial Biological Resources					
7.4-3 Implementation of the KWB activities proposed project could potentially affect special-status terrestrial biological resources on the Kern Fan Element property KWB Lands due to changes in land use and management.	LTS	PS	7.4-3 KWBA will implement the following terms required of KWBA as specified in the 1997 Monterey IS and Addendum (Appendix 7-6a), 2016 KWBA Resolution, and KWB HCP/NCCP, including Appendix A (Kern Water Bank Operations Manual), Appendix C (Kern Water Bank Vegetation Management Plan, and Appendix D (Kern Water Bank Waterbird Management	NA	LTS

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			<p>Plan) (see Appendices 7-7a, 7-7b, 7-7c, and 7-7d, respectively):</p> <p>a) Biological Monitor A qualified biologist shall monitor all ground disturbing activities during construction in the Sensitive Habitat Sector and will oversee measures undertaken to reduce the take of listed species.</p> <p>b) Construction Practices</p> <p>i. Delineation of Disturbance Areas – During construction, KWBA shall clearly delineate disturbance area boundaries by stakes, flagging, or by reference to terrain features, as provided in the <u>KWB HCP/NCCP</u> directed by CDFG and USFWS to minimize degradation or loss of adjacent wildlife habitats during operation.</p> <p>ii. Signage – During construction, KWBA shall post signs and/or place fencing around construction sites to restrict access of vehicles and equipment unrelated to site operations.</p> <p>iii. Resource Agency Notification – At least 20 working days prior to initiating ground disturbance for project facilities in designated salvage/relocation areas, KWBA shall notify the Fresno Field Office of CDFG and the Sacramento Field Office of USFWS of its intention to begin construction activities at a specific location and on a specific date. The agencies will have ten working days to notify the KWBA of their intention to salvage or</p>		

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			<p>relocate listed species in the construction area. If KWBA is notified, it shall wait an additional five days to allow the salvage/relocation to take place.</p> <p>iv. Salvage and Relocation – KWBA shall allow time and access to USFWS and/or CDFWG, or their designees, to relocated listed species, at the Resource Agencies' expense, from construction areas prior to disturbance of areas that have been identified by the Resource Agencies as having known populations of the listed species they wish to salvage or relocate.</p> <p>v. Construction Site Review – All construction pipes, culverts, or similar structures with a diameter of three inches or greater that are stored at a construction site on the Kern Water Bank for one or more overnight periods shall be thoroughly inspected for trapped kit foxes and other animals before the subject pipe is subsequently buried, capped, or otherwise used or moved in any way. Pipes laid in trenches overnight shall be capped. If during construction a kit fox or other animal is discovered inside a pipe, that section of pipe shall not be moved or, if necessary, shall be moved only once to remove it from the path of construction activity until the animal has escaped.</p> <p>vi. Employee Orientation – An employee orientation program for construction crews, and others who will work on-site during construction, shall be conducted and shall consist of a brief consultation</p>		

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			<p>in which persons knowledgeable in endangered species biology and legislative protection explain endangered species concerns. The education program shall include a discussion of the biology of the listed species, the habitat needs of these species, their status under FESA and CESA, and measures being taken for the protection of these species and their habitats as a part of the project. The orientation program shall be conducted on an as needed basis prior to any new employees commencing work on the Kern Water Bank. Every two years or at the beginning of construction for the Supply/Recovery canal, a refresher course will be conducted for employees previously trained. A fact sheet conveying this information shall also be prepared for distribution to all employees. Upon completion of the orientation, employees shall sign a form stating that they attended the program and understand all protection measures. These forms shall be filed at KWBA's office and shall be accessible by CDWEG and USFWS.</p> <p>vii. Standards for Construction of Canals – Concrete-lined canals will have a side slope of 1.5 to 1 or less and the sides will have a concrete finish which will assist in the escape of animals. If canals are determined by CDFWG or USFWS to be substantial impediments to kit fox movement, plank or pipe crossings will be provided across concrete canals in areas identified as having high kit fox</p>		

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			activity. c) On-Going Practices i. Equipment Storage - All equipment storage and parking during site development and operation shall be confined to the construction site or to previously disturbed off site areas that are not habitat for listed species. ii. Traffic Control - KWBA's project representative shall establish and issue traffic restraints and signs to minimize temporary disturbances. All construction related vehicle traffic shall be restricted to established roads, construction areas, storage areas, and staging and parking areas. Project related vehicles shall observe a 25 MPH speed limit in all project areas except on county roads and state and federal highways. iii. Food Control - All food-related trash items such as wrappers, cans, bottles, and food scraps generated both during construction and during subsequent facility operation shall be disposed of in closed containers and shall be regularly removed from the site. Food items may attract kit foxes onto a project site, consequently exposing such animals to increased risk of injury or mortality. iv. Dog Control - To prevent harassment or mortality of kit foxes or destruction of kit fox dens or predation on this species; no domestic dogs or cats, other than hunting dogs, shall be permitted on-site.		

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			<p>v. Pesticide Use - Use of rodenticides and herbicides on the site shall be permitted in accordance with the Vegetation Management Plan, which incorporates by reference the Interim Measures for Use of Rodenticides in Kern County, and which will incorporate by reference any other applicable laws, rules, and regulations regarding the use of pesticides as they take effect.</p> <p>d) Project Representatives KWBA shall designate a specific individual as a contact representative between KWBA, USFWS, and CDFWG to oversee compliance with protection measures-detailed herein. KWBA shall provide written notification of the contact representative to CDFWG and USFWS within 30 days of issuance of the Permits and the Management Authorizations. Written notification shall also be provided by KWBA to CDFWG and USFWS in the event that the designee is changed.</p> <p>e) Notification Regarding Dead, Injured or Entrapped Listed Animals Any employee or agent of KWBA who kills or injures a San Joaquin kit fox, blunt nosed leopard lizard, Tipton kangaroo rat, San Joaquin antelope squirrel, or other listed species listed as a threatened or endangered animal under FESA or CESA, or who finds any such animal either dead, injured, or entrapped on the Kern Water Bank shall report the incident immediately to KWBA's representative who shall, in turn, report the incident or finding to USFWS and CDFWG. In the event</p>		

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			<p>that such observations are of entrapped animals, escape ramps or structures shall be installed immediately to allow the animal(s) to escape unimpeded. In the event that such, observations are of injured or dead animals, KWBA shall immediately notify USFWS and CDFWG by telephone or other expedient means. KWBA shall then provide formal notification to USFWS and CDFWG, in writing, within three working days of the finding of any such animal(s). Written notification shall include the date, time, location, and circumstances of the incident.</p> <p>The USFWS contact for this information shall be the Assistant Field Supervisor for Endangered Species, Sacramento Field Office. The CDFWG contact shall be the Environmental Services Supervisor at the San Joaquin Valley-Southern Sierra Region Headquarters.</p> <p>USFWS or CDFWG will be notified if any other animal, which is otherwise a listed species, is found dead or injured.</p> <p>f) Construction of Supply/Recovery Canal</p> <p>Within 60 days prior to the construction of the supply/recovery canal within the zone marked within the Map of the Kern Water Bank, KWBA shall conduct a limited survey within the area of the Kern Water Bank, which <u>will be</u> affected by that construction, with the sole goal of identifying potential San Joaquin kit fox dens. KWBA shall contact USFWS and CDFWG pursuant to the salvage procedures set forth above if any kit fox</p>		

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			<p>dens are found.</p> <p>g) Take Avoidance Protocol for Fully Protected Species <u>Although a population of blunt nosed leopard lizards was relocated to the Kern Water Bank, there is no known present occurrence of them.</u> Existing data on the blunt nosed leopard lizard at the Kern Water Bank indicates that populations, <u>if they exist</u>, occur within habitat set asides (either sensitive, compatible, or conservation bank habitat), thus the likelihood of take from project construction, operation, and maintenance is negligible. However, in the future adaptive management measures may expand to areas of suitable habitat.</p> <p>Three other species, which may be found on the Kern Water Bank, are also state designated fully protected species: American peregrine falcon, Greater sandhill crane, and White-tailed kite. The likelihood of the take of any of these species from project construction, operation, and maintenance is negligible due to their mobility and preferred habitats. However, to avoid any take of these species, the same take avoidance protocol as set out for the blunt nosed leopard lizard shall apply to each of these three species.</p> <p>KWBA will comply with the terms of the NCCP Approval and Take Authorization as it relates to <u>Until such time that the KWBA obtains appropriate authorization for take of the state-designated fully protected species (Appendix 7-e) blunt nosed leopard lizard by the Fish and Game Commission,</u> †The following take avoidance protocol shall apply in any areas that contain suitable</p>		

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			<p>habitat for fully protected species not covered by authorization for take of state-designated fully protected species identified in this subsection (g) of the blunt nosed leopard lizard:</p> <ul style="list-style-type: none"> i. A qualified biologist shall survey any areas proposed for project related disturbance that contain suitable habitat for <u>fully protected species</u> the blunt nosed leopard lizard to determine the likelihood of presence. Suitable habitat consists of valley and foothill grasslands, saltbrush scrubland, iodine bush grassland, and alkali flats. ii. If these <u>fully protected species</u> blunt nosed leopard lizards are found to occur in areas proposed for project facilities construction or maintenance, construction of avoidance should take place. first. If avoidance is not practicable, then the blunt nosed leopard lizard will be trapped and relocated prior to disturbance of KWBA's expense in accordance with the applicable annual management plan. This work must be done by or under the direction of the USFWS staff be persons with appropriate experience and with their own take for scientific purposes permits. This procedure will avoid any violation of state law. <p>The use of a biological monitor, and special construction activities and on- going practices will result in a heightened awareness and education regarding sensitive biological resources, which will reduce the potential for impacts on special-status</p>		

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			species. In addition, the use of a project representative as a liaison between the KWBA and the resource agencies will expedite notification regarding any take of a listed animal. While take of a fully protected species is not anticipated, this mitigation outlines avoidance protocol to further reduce the likelihood of said take. Together these mitigation measures and the beneficial net increase of habitat for special- status species through implementation of the HCP/NCCP will reduce any potential impact to a less-than-significant level.		
7.5 Visual Resources					
7.5-3 Implementation of KWB activities could potentially affect visual resources.	LTS	LTS	7.5-3 None required.	NA	NA
7.6 Agricultural Resources					
7.6-1 KWB activities could potentially convert agricultural uses, including Important Farmland, to nonagricultural uses or potentially convert irrigated farmland to orchards, which could cause other indirect effects.	LTS	LTS	7.6-1 None required.	NA	NA
7.7 Air Quality					
7.7-1 Construction of KWB facilities could potentially generate emissions that would	LTS	LTS	7.7-1 None required.	NA	NA

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Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
violate air quality standards or conflict with or obstruct implementation of the SJVAPCD air quality plan.					
7.7-2 Operations and maintenance of existing and proposed KWB facilities could potentially generate air pollutant emissions that would violate air quality standards or conflict with or obstruct implementation of the SJVAPCD air quality plan.	LTS	LTS	7.7-2 None required.	NA	NA
7.7-3 Construction, operations, and maintenance of existing and proposed KWB facilities could potentially generate cumulatively considerable air pollutant emissions.	LTS	LTS	7.7-3 None required.	NA	NA
7.7-4 Construction, operations, and maintenance of existing and proposed KWB facilities could potentially expose sensitive receptors to substantial pollutant concentrations.	LTS	LTS	7.7-4 None required.	NA	NA
7.7-5 Construction, operations, and maintenance of the existing and proposed KWB facilities could potentially generate objectionable odors affecting a substantial number of people.	LTS	LTS	7.7-5 None required.	NA	NA

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7.8 Geology, Soils, and Mineral Resources					
7.8-1 Rates of erosion could potentially be affected by KWB activities.	LTS	PS	7.8-1 KWBA will implement the following measures: a) Comply with NPDES permit requirements, which include preparation of a site-specific SWPPP and implementation of BMPs specifically designed to control erosion and reduce the transport of sediment and other pollutants (see Section 7.0.4.1.1). b) Comply with measures in the KWB HCP/NCCP Vegetation Management Plan, including the following specified for sediment removal and erosion control (see Appendix 7-7c): i. Sediment build up in canals and recharge basins must be removed to maintain adequate flow and water capacity in canals and to maintain good percolation in recharge basin. Sediment is typically removed mechanically with an excavator. To minimize transport costs of disposal, the loose soil sediments are typically placed on or near levees and canals. When feasible, islands in the recharge basis will be constructed from the spoil of the removal process. If this practice is to continue, then newly placed soils will be compacted onto the levee side slopes and tops where appropriate in areas that are not known to support kit fox dens, Tipton kangaroo rat	NA	LTS

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			burrows, blunt-nosed leopard lizards or burrowing owl holes. Hay mulch may be applied to the bare slopes and seed would occur at the proper time of year as appropriate. The elimination of bare soil conditions will decrease erosion. In addition, establishing marsh vegetation at the head of stream flow patterns will filter water and reduce sediment transport through the system. ii. Water conveyance structures and control devices require periodic erosion control protection measures. Concrete riprap is typically used near the structures to prevent excessive erosion. Sidebank blowouts near conveyance structures shall be refilled and revegetated where appropriate. c) Use a watering truck to minimize fugitive dust generated during grading when conditions require, such as on dry, windy days (1997 Monterey IS and Addendum, Measure E-1)(see Appendix 7-6a).		
7.8-2 KWB activities could potentially expose people and structures to risks from unstable soils (liquefaction).	LTS	LTS	7.8-2 None required.	NA	NA

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7.8-3 KWB activities could potentially cause or contribute to subsidence as a result of groundwater extraction.	LTS	LTS	7.8-3 None required.	NA	NA
7.9 Recreation					
7.9-3 KWB activities could potentially affect recreational resources within KWB Lands.	LTS	LTS	7.9-3 None required.	NA	NA
7.10 Land Use and Planning					
7.10-1 Implementation of KWB activities could potentially change land use designations, thereby physically dividing an established community in the southern San Joaquin Valley portion of Kern County.	LTS	LTS	7.10-1 None required.	NA	NA
7.10-2 KWB activities could potentially conflict with adopted general plan policies, land use designations, and zoning codes.	LTS	LTS	7.10-2 None required.	NA	NA
7.11 Hazards and Hazardous Materials					
7.11-1 KWB construction activities could potentially expose workers or the public to previously unidentified hazards or hazardous materials.	LTS	PS	7.11-1 KWBA will implement the following measures: a) Require construction contracts to include specific language requiring contractors to comply with applicable hazardous materials management laws and regulations adopted at the State level in Titles 19 and 22 of the CCR, which address proper storage and disposal of substances such as fuels and Title 8 of the CCR which	NA	LTS

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			<p>addresses the use of hazardous products in the work environment, which would apply to construction contractors. (See Section 7.0.4.1.2.)</p> <p>b) Ensure that the use of herbicides on the site shall be permitted in accordance with the KWB HCP/NCCP Vegetation Management Plan, which will incorporate by reference any other applicable laws, rules, and regulations regarding the use of pesticides as they take effect. (Measure B-3(e), Ongoing Pesticide Use, in 1997 Monterey IS and Addendum)(see Appendix 7-6a and Section 7.0.4.1.5).</p> <p>c) Provide a comprehensive Worker Environmental Awareness Program (WEAP) that will include all training requirements identified in Best Management Practices, Worker Site Specific Health and Safety Plan, and mitigation measures, including training for all field personnel (e.g., KWBA employees, agents, and contractors). The WEAP shall include protocols and training for responding to and handling of hazardous materials and hazardous waste management, and emergency preparedness, release reporting, and response requirements. KWBA will ensure that all construction workers at risk of inhaling dust shall be provided masks with filters designed to trap spores of the size of Valley Fever fungus. (See Appendix 7.6b, 2016 KWBA Resolution).</p> <p>d) Comply with Mitigation Measure 7.8-1 and 7.8-2.</p>		

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7.11-2 KWB activities could create a hazard to the public or environment through accidental release of hazardous materials or through routine transport, use, or disposal of hazardous materials.	LTS	PS	7.11-2 KWBA will implement Mitigation Measure 7.11-1.	NA	LTS
7.11-3 KWB activities could potentially be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a potential hazard for the environment and people residing or working in the immediate area.	LTS	LTS	7.11-3 None required.	NA	NA
7.11-4 KWBA activities with regard to accidents and upsets from onsite and adjacent third-party activities on or near KWB Lands could potentially create a significant hazard to the public or environment.	LTS	PS	7.11-4 KWBA will implement the following measures: a) Implement Mitigation Measure 7.11-1. b) Continue to monitor the remediation of the current and any future hydrocarbon contamination from third-party oil and gas activities. (Measure C-2, Hydrocarbon Contamination Monitoring, in 1997 Monterey IS and Addendum)(See Appendix 7-6a.) c) KWBA shall implement the following measures before and during ground-disturbing activities to reduce health hazards associated with potential exposure to hazardous substances (2016 KWBA Resolution)(see Appendix 7-6b.) i. If stained or odorous soil is discovered during project-related construction activities, KWBA shall	NA	LTS

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			<p>retain a qualified environmental professional to conduct a Phase II Environmental Site Assessment and/or other appropriate testing. Recommendations in the Phase II Environmental Site Assessment to address any contamination that is found shall be implemented before continuing with ground-disturbing activities in these areas.</p> <p>ii. As required by law, notify the appropriate federal, state, and local agencies if evidence of previously undiscovered soil or groundwater contamination (e.g., stained soil, odorous groundwater) or if unknown or previously undiscovered underground storage tanks are encountered during construction activities.</p>		
7.11-5 KWB activities could potentially expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands.	LTS	LTS	7.11-5 None required.	NA	NA
7.11-6 KWB activities could increase airborne vector populations or the likelihood of waterborne disease or illness.	LTS	PS	<p>7.11-6: KWBA will implement the following:</p> <p>a) Implement Mitigation Measure 7.11-1(c).</p> <p>b) Implement Measure P-1, Implementation of Mosquito Abatement Plan, in the 1997 Monterey IS and Addendum (see Appendix 7-6a) with modifications for measures that proved infeasible or unsuccessful. In accordance with the Mosquito</p>	NA	LTS

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			Abatement Plan, KWBA will engage in the following procedures which are expected to reduce any impact due to the breeding of mosquitoes in the recharge basins to insignificance: <ul style="list-style-type: none"> i. KWBA will notify staff of the Kern and Westside Mosquito Abatement Districts (District) of planned use of recharge basins. ii. Roads on the KWB will be kept in a reasonable condition to allow the District access to the KWB. iii. KWBA will assist District staff in adaptive management planning to review the success of mosquito control techniques and to develop improved mosquito control techniques. 			
7.12 Noise						
7.12-3	Noise levels in the <u>KWB Lands Kern Fan Element</u> could be potentially affected by development of groundwater storage facilities.	LTS	LTS	7.12-3 None required.	NA	NA

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7.13 Cultural and Paleontological Resources					
7.13-1 KWB activities could potentially result in damage and/or destruction of cultural and paleontological resources.	LTS	PS	7.13-1a KWBA will implement the following measures to minimize potential adverse impacts on cultural resources (see Appendix 7-6b, 2016 KWBA Resolution): a) Prior to ground disturbance for new pond or well construction and associated facilities, an analysis to identify the potential presence of archaeological resources on the project site shall be conducted. The analysis shall include, at a minimum, a records check and literature survey from the appropriate California Historical Resources Information System (CHRIS) center and a Phase I Cultural Resources Investigation by an archaeologist meeting the Secretary of the Interior's Standards. If resources are known to exist on a project site, the analysis shall include an assessment of the resource and shall include measures for the in-situ protection, or the recovery, preservation, study, and curation of the resource, as appropriate. The analysis and the measures developed shall be consistent with the practices and intent described in Section 21083.2 et seq. of the Public Resources Code, as well as Sections 15064.5 et seq. and 15126.4(b) of the California Code of Regulations, and shall be consistent with current professional archaeological standards. The archaeologist shall prepare a report of the results of any study prepared, following accepted professional practice. Copies of the report	NA	LTS

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			<p>shall be submitted to the KWBA and to the appropriate CHRIS information center. KWBA shall also consult, as appropriate, with the Native American Heritage Commission and appropriate Native American tribal representatives to address Native American cultural values with respect to archaeological contexts and places of traditional use or importance.</p> <p>b) As a condition of all contracts for new pond or well construction and associated facilities and prior to ground-disturbing activities, all earth-moving and excavation contractor employees shall attend an orientation session informing them of the potential for inadvertently discovered cultural resources and/or human remains and protection measures to be followed to prevent destruction of any and all cultural resources discovered on site. The applicant's designated project construction manager, a qualified archaeologist, and a qualified cultural resource manager/monitor from a local California Native American tribe shall conduct the orientation (unless the local tribe opts not to participate). The orientation will include information regarding the potential for objects to occur on site, a summary of applicable environmental law, procedures to follow if potential cultural resources are found, and the measures to be taken if cultural resources and/or human remains are unearthed as part of the project.</p>		

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			<p>c) Construction areas for new ponds and wells and associated facilities shall be staked prior to earthmoving by a qualified archaeologist in consultation with the contractor to indicate the construction area, construction staging area, and buffer. No earthmoving, parking, or materials storage will be allowed outside the staked areas. Prior to construction, the archaeologist shall survey the area to identify any surface artifacts within the staked area. An archaeologist and qualified cultural resource manager/monitor from a local California Native American tribe (unless the local tribe opts not to participate) shall be present during any grubbing or topsoil grading within the staked area. If previously unknown buried cultural resources, such as flaked or ground stone, historic debris, building foundations, or nonhuman bone (unless determined to be from present day grazing operations), are discovered during ground-disturbing activities, work will stop in that area and within an appropriate buffer area, as determined by the archaeologist. The archaeologist shall assess the significance of the affected cultural resources and, if necessary, develop feasible and appropriate treatment measures in consultation with the project staff, such as avoidance, capping with geotextile and fill, or Phase III data recovery consistent with applicable standards adopted pursuant to the National Historic Preservation Act.</p>		

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			<p>d) In the event of the discovery of a burial, human bone, or suspected human bone, all excavation or grading in the vicinity of the find shall halt immediately, the area of the find shall be protected, and KWBA immediately shall notify the County Coroner of the find and comply with the provisions of PRC Section 5097 with respect to Native American involvement, burial treatment, and re-burial, if necessary.</p> <p>7.13-1b. KWBA will implement the following measures to minimize potential adverse impacts on previously unknown potentially unique, scientifically important paleontological resources: (see Appendix 7-6b, 2016 KWBA Resolution):</p> <p>a) Before the start of any well-drilling activities, KWBA shall retain a qualified paleontologist or other qualified individual to train all personnel involved with earthmoving and/or well drilling activities regarding the possibility of encountering fossils, the appearance and types of fossils likely to be seen during construction, and proper notification procedures should fossils be encountered (this training can take place at the same time as the orientation required by 7.13-1a).</p> <p>b) In the event that paleontological resources are discovered, KWBA will notify a qualified paleontologist. The paleontologist will document the discovery as needed, evaluate the potential</p>		

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			resource, and assess the significance of the find under the criteria set forth in CEQA Guidelines Section 15064.5. If fossil or fossil bearing deposits are discovered during construction, excavations within 50 feet of the find will be temporarily halted or diverted until the discovery is examined by a qualified paleontologist. The paleontologist will notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find. If KWBA determines that avoidance is not feasible, the paleontologist will prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important. The plan will be submitted to KWBA for review and approval prior to implementation. The analysis and measures developed shall be consistent with the Conformable Impact Mitigation Guidelines developed by the Society of Vertebrate Paleontology and current professional paleontological standards.			
7.14 Public Services and Utilities						
7.14-1	KWB activities could potentially result in the need for new or expanded governmental facilities or an increase in demand for public services and utilities.	LTS	LTS	7.14-1 None required.	NA	NA

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7.15 Traffic and Transportation					
7.15-3 Traffic and circulation <u>on or near KWB Lands in the Kern Fan Element</u> could potentially be affected by <u>KWB activities, construction and operation of percolation ponds.</u>	LTS	LTS	7.15-3 None required.	NA	NA
7.16 Energy					
7.16-1 KWB activities would potentially require or result in the construction of new electrical or natural gas facilities.	LTS	LTS	7.16-1 None required.	NA	NA
7.16-2 KWB activities could potentially develop land uses and patterns that cause substantial wasteful, inefficient, and unnecessary consumption of energy that would result in an increased demand for energy.	LTS	PS	7.16-2 KWBA will implement Mitigation Measure 12-1.	NA	LTS
Chapter 12 Climate Change					
12-1 KWB construction and operations/maintenance would generate GHG emissions that could potentially make a considerable contribution to a significant cumulative effect on climate change.	LTS	PS	12-1 KWBA will implement the following measures (2016 KWBA Resolution, Appendix 7.6b): a) Pump Efficiency Monitoring: KWBA will conduct pump efficiency monitoring to ensure that all KWB pumps are monitored and evaluated at regular intervals during recovery periods. i. Daily Pump Efficiency Monitoring: Pumps shall	NA	LTS

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			<p>be monitored daily for their total water volume pumped (acre-feet [AF]) and electricity consumption (kilowatt-hours [kWh]), which will be used to calculate a daily energy efficiency value (i.e., kWh/AF).</p> <p>ii. Pump Efficiency Software: Metro or an equivalent water system management program will be used to provide up-to-date and streamlined methods to analyze KWB's individual pump and total system efficiency.</p> <p>b) Pump Rehabilitation, Retrofits, and Replacement: KWBA shall use data from the Pump Efficiency Monitoring component to strategically and actively rehabilitate, retrofit, and/or replace pumps as needed during recovery periods.</p> <p>i. Pump Prioritization and Testing: Pump rehabilitation, retrofit, and replacement shall be prioritized by accounting for the relative efficiency of each pump with respect to the total pump system and water volume pumped through each pump. Data obtained from the Pump Efficiency Monitoring component shall be used to prioritize which pumps will be rehabilitated, retrofitted, and/or replaced. In addition efficiency testing by external entities if available (e.g., pump company, Pacific Gas & Electric Company [PG&E]) or other similar analysis will also be used for the prioritization process.</p>		

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			<ul style="list-style-type: none"> ii. Schedule: KWBA shall rehabilitate, retrofit, and/or replace pumps/wells at the earliest possible time without substantially disturbing ongoing O&M activities, but at a minimum will rehabilitate, retrofit, and/or replace at least an annual average of 5 pumps per year during a prolonged recovery period such as occurred between 2013 and 2016. c) Reporting: KWBA will maintain a quarterly and annual reporting program that will be publicly available online. Annual reports will cover calendar years and be posted online by March 30 to cover the previous year. Quarterly reports will be posted online within 30 days of the end of each calendar quarter. The annual and quarterly reports will include, but are not limited to, the following components: <ul style="list-style-type: none"> i. KWB O&M Totals: Total quarterly electricity consumption for recovery pumping activities along with total acre-feet recovered shall be provided online. A running total of the annual electricity consumption and acre-feet recovered by quarter shall also be provided. ii. Pump Efficiency: A summary of the pump efficiency (kWh/acre-feet) for each of KWB's pumps will be provided quarterly. Similar to the KWB O&M Totals, a running annual average efficiency for each pump shall be provided. These data shall be used to identify 		

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			<p>the 5 pumps per year that will be rehabilitated, retrofitted, or replaced. If a pump/well is adjusted for depth, notes shall be made within the reports to explain these changes in pump efficiency.</p> <p>iii. Electricity Efficiency Actions: Each report should include actions taken in the previous quarter to rehabilitate, retrofit, and/or replace pumps. Any other energy efficiency measures taken will be reported. When information is available from PG&E's Advanced Pumping Efficiency Program or other similar programs, annual electricity savings from these actions shall be included in the quarterly and annual reports to clearly show the electricity savings associated with rehabilitation, retrofit, and/or replacement actions. If annual energy savings cannot be determined through pre- and post-pump improvement testing, KWBA shall report the empirical annual energy savings (kWh/year) from these improvements in its annual reports.</p> <p>iv. Identifying Next Steps: Each annual report will include the list of 5 or more pumps planned to be evaluated for potential rehabilitation, retrofit, or replacement during that year. If all five of the least efficient pumps are not scheduled for rehabilitation, retrofit, and/or replacement in the coming year, the annual report shall</p>		

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			explain what KWB operation requires the pump to remain in service that year. d) Pump Compliance: KWBA will only purchase new pumps that comply with United States Department of Energy pump efficiency regulations (10 CFR Part 429 and 431) when those regulations become effective in the marketplace in 2020. e) Future Increases in Technology and Emissions Standards: KWBA shall actively consider replacing older pumps with new pumps with increased efficiency technology. All future requirements for pumps at the federal, state, and/or local level shall be complied with.		
12-2 Construction and operations/maintenance of the existing and proposed KWB activities could conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing greenhouse gas emissions.	NA	LTS	12-2 None required.	NA	NA
CUMULATIVE IMPACTS OF THE MONTEREY PLUS REVISED EIR					
Surface Water and Groundwater Hydrology					
10.1-23 Implementation of KWB activities in combination with regional and local water banking projects could potentially deplete groundwater supplies so that a net deficit in aquifer volume of stored groundwater would occur.	NA	LTS	10.1-23 None required.	NA	NA

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10.1-24 Implementation of KWB activities in combination with regional and local water banking projects could potentially deplete groundwater supplies so that a lowering of the local groundwater table level would occur (e.g., the production rate of preexisting nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted).	NA	PS	10.1-24 KWBA will implement Mitigation Measure 7.1-2.	NA	LTS
10.1-25 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable impacts related to the alteration of water levels in a groundwater basin that substantially affect existing infrastructure (e.g., conveyance facilities).	NA	PS	10.1-25 KWBA will implement Mitigation Measure 7.1-7.	NA	LTS
10.1-26 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable impacts related to the alteration of water levels in a groundwater basin that substantially affect existing infrastructure (e.g., residential septic systems).	NA	LTS	10.1-26 None required.	NA	NA

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10.1-27 Raise water levels in a groundwater basin sufficiently to substantially interfere with groundwater recharge.	NA	LTS	10.1-27 None required.	NA	NA
Surface Water and Groundwater Quality					
10.1-28 Implementation of KWB activities in combination with regional and local water banking projects could potentially change groundwater quality from construction and maintenance activities.	NA	PS	10.1-28 KWBA will implement Mitigation Measure 7.2-1.	NA	LTS
10.1-29 Implementation of KWB activities in combination with regional and local water banking projects could potentially degrade groundwater quality from mobilization of contamination associated with hazardous waste sites or oil and gas production operations.	NA	PS	10.1-29 KWBA will implement Mitigation Measures 7.2-2.	NA	LTS
10.1-30 Implementation of KWB activities in combination with regional and local water banking projects could potentially have their water quality degraded from the operation of oil and gas production wells on KWB Lands and nearby.	NA	PS	10.1-30 KWBA will implement Mitigation Measure 7.2-3.	NA	LTS
10.1-31 KWB construction and maintenance activities could potentially change groundwater quality.	NA	LTS	10.1-31 None required.	NA	NA

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MONTEREY PLUS REIR: SUMMARY OF IMPACTS AND MITIGATION MEASURES

Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
10.1-32 KWB operations could mobilize contamination in soils or the unsaturated zones associated with hazardous waste sites or oil and gas production operations and potentially degrade groundwater quality.	NA	LTS	10.1-32 None required.	NA	NA
10.1-33 The operation of oil and gas production wells within and surrounding KWB Lands could potentially degrade the quality of KWB water supplies.	NA	LTS	10.1-33 None required.	NA	NA
10.1-34 Implementation of KWB activities in combination with regional and local water banking projects could result in changes in water quality in the underlying aquifer as a result of lateral and vertical migration of poor water quality within and outside the limits of the KWB.	NA	LTS	10.1-34 None required.	NA	NA
10.1-35 Implementation of KWB activities in combination with regional and local water banking projects could result changes in water quality in the underlying aquifer as a result of an accumulation of salts during recharge activities.	NA	LTS	10.1-35 None required.	NA	NA
10.1-36 Implementation of KWB activities in combination with regional and local water banking projects could result in a	NA	LTS	10.1-36 None required.	NA	NA

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cumulatively considerable impact on water quality in the Kern River.					
10.1-37 Implementation of KWB activities in combination with regional and local water banking projects could result adverse impacts associated with water quality in surface water conveyance facilities and associated water supplies for downstream users.	NA	LTS	10.1-37 None required.	NA	NA
Fisheries Resources					
10.1-38 Implementation of KWB activities in combination with regional and local water banking projects in Kern County could potentially result in cumulatively considerable impacts on fish species of special concern through entrainment.	NA	LTS	10.1-38 None required.	NA	NA
Terrestrial Biological Resources					
10.1-39 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable impacts on special-status terrestrial biological resources.	NA	PS	10.1-39 KWBA will implement Mitigation Measure 7.4-3.	NA	LTS

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Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
10.1-40 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in cumulatively considerable impacts on special-status terrestrial biological resources as a result of potential changes in agricultural practices.	NA	LTS	10.1-40 None required.	NA	NA
Visual Resources					
10.1-41 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in cumulatively considerable impacts on visual resources.	NA	LTS	10.1-41 None required.	NA	NA
10.1-42 Implementation of KWB activities in combination with regional and local water banking and other water supply projects could potentially result in cumulatively considerable impacts on visual resources as a result of potential changes in agricultural practices.	NA	LTS	10.1-42 None required.	NA	NA

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	1996-2014	2015-2030*		1996-2014	2015-2030*
Agricultural Resources					
10.1-43 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in the conversion of agricultural lands, including Important Farmland, to nonagricultural uses.	NA	LTS	10.1-43 None required.	NA	NA
10.1-44 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in the conversion of annual crops to permanent crops.	NA	LTS	10.1-44 None required.	NA	NA
Air Quality					
10.1-45 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially generate cumulatively considerable air pollutant emissions that would violate air quality standards.	NA	LTS	10.1-45 None required.	NA	NA

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	1996-2014	2015-2030*		1996-2014	2015-2030*
10.1-46 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in cumulatively considerable exposure of sensitive receptors to substantial pollutant concentrations.	NA	LTS	10.1-46 None required.	NA	NA
10.1-47 Construction, operations, and maintenance of the existing and proposed KWB facilities with other cumulative projects could potentially generate objectionable odors in a cumulative manner affecting a substantial number of people.	NA	LTS	10.1-47 None required.	NA	NA
10.1-48 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable air pollutant emissions as a result of potential changes in agricultural practices.	NA	LTS	10.1-48 None required.	NA	NA
Geology, Soils, and Mineral Resources					
10.1-49 Implementation of KWB activities in combination with regional and local water banking projects could expose people and structures to risks from unstable soils (liquefaction).	NA	LTS	10.1-49 None required.	NA	NA

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	1996-2014	2015-2030*		1996-2014	2015-2030*
10.1-50 Implementation of KWB activities in combination with regional and local water banking projects could cause or contribute to subsidence as a result of groundwater extraction.	NA	LTS	10.1-50 None required.	NA	NA
10.1-51 Implementation of KWB activities in combination with regional and local water banking projects could contribute to movement on regional faults.	NA	LTS	10.1-51 None required.	NA	NA
10.1-52 Implementation of KWB activities in combination with regional and local water banking projects could potentially increase soil erosion	NA	LTS	10.1-52 None required.	NA	NA
10.1-53 Implementation of KWB activities in combination with regional and local water banking projects could potentially increase soil erosion as a result of potential changes in agricultural practices.	NA	LTS	10.1-53 None required.	NA	NA
Recreation					
10.1-54 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable impacts on waterfowl and related recreational resources.	NA	NI	10.1-54 None required.	NA	NA

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Impact	Level of Significance Prior to Mitigation		Mitigation Measure(s)	Level of Significance After Mitigation	
	1996-2014	2015-2030*		1996-2014	2015-2030*
Land Use and Planning					
10.1-55 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially conflict with adopted general plan policies, land use designations, and zoning codes.	NA	NI	10.1-55 None required.	NA	NA
10.1-56 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in cumulatively considerable impacts on land use patterns as a result of potential changes in agricultural practices.	NA	LTS	10.1-56 None required.	NA	NA
Hazards and Hazardous Materials					
10.1-57 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in cumulatively considerable impacts related to the creation of a hazard to the public or environment through routine transport, use, or disposal of hazardous materials.	NA	LTS	10.1-57 None required.	NA	NA

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	1996-2014	2015-2030*		1996-2014	2015-2030*
10.1-58 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable increases in airborne vector populations or in the likelihood of waterborne disease or illness.	NA	PS	10.1-58 KWBA will implement Mitigation Measure 7.11-6.	NA	LTS
Noise					
10.1-59 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable increases in noise levels near sensitive receptors.	NA	LTS	10.1-59 None required.	NA	NA
10.1-60 Implementation of KWB activities in combination with regional and local water banking projects could potentially increase noise levels as a result of potential changes in agricultural practices.	NA	LTS	10.1-60 None required.	NA	NA
Cultural and Paleontological Resources					
10.1-61 Implementation of KWB activities in combination with regional and local water banking and development projects could potentially result in cumulatively considerable impacts related to the damage to and/or destruction of cultural and paleontological resources.	NA	PS	10.1-61 KWBA will implement Mitigation Measures 7.13-1(a) and 7.13-1(b).	NA	LTS

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	1996-2014	2015-2030*		1996-2014	2015-2030*	
10.1-62 Implementation of KWB activities in combination with regional and local water banking projects potentially result in cumulatively considerable impacts related to damage to or destruction of cultural and paleontological resources as a result of potential changes in agricultural practices.	NA	LTS	10.1-62 None required.	NA	NA	
Public Services and Utilities						
10.1-63 Implementation of KWB activities in combination with regional and local water banking and local development projects on or near KWB Lands could potentially result in cumulatively considerable impacts related to the need for new or expanded governmental facilities or an increase in demand for public services and utilities.	NA	LTS	10.1-63 None required.	NA	NA	
Traffic and Transportation						
10.1-64 Implementation of KWB activities in combination with regional and local water banking and local development projects on or near KWB Lands could potentially result in cumulatively considerable increases in traffic.	NA	LTS	10.1-64 None required.	NA	NA	

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10.1-65 Implementation of KWB activities in combination with regional and local water banking projects could potentially result in cumulatively considerable increases in traffic as a result of potential changes in agricultural practices.	NA	LTS	10.1-65 None required.	NA	NA
Energy					
10.1-66 Implementation of KWB activities in combination with regional and local water banking, development, and capital improvement projects could develop land uses and patterns that cause cumulatively considerable impacts associated with the wasteful, inefficient, and unnecessary consumption of energy.	NA	PS	10.1-66 KWBA will implement Mitigation Measure 12-1.	NA	LTS
10.1-67 Implementation of KWB activities in combination with regional and local water banking and local development projects could potentially require or result in the construction of new electrical or natural gas facilities.	NA	LTS	10.1-67 None required.	NA	NA

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Climate Change					
10.1-68 Implementation of KWB activities in combination with regional and local water banking projects could potentially generate cumulatively considerable GHG emissions.	NA	PS	10.1-68 KWBA will implement Mitigation Measure 12-1.	NA	LTS
Growth-Inducing Impacts					
10.1-69 KWB participant water supplies provided for urban development, in combination with regional and local water banking projects, could potentially generate cumulatively considerable contributions to significant cumulative impacts from urban development.	NA	PSU	10.1-69 No feasible mitigation available.	NA	SU
Notes: *2015-2035 for Sections 7.1 and 7.2 impacts, which were developed partially or totally based on modeling which used a 2015-2035 modeling period.					

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