

RECLAMATION

Managing Water in the West

National Environmental Policy Act Finding of No Significant Impact

No. 15-SCAO-003-FONSI


Western Municipal Water District
Arlington Basin Water Quality Improvement Project
Riverside County, California

ORIGINAL
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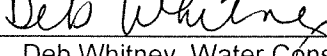
The Bureau of Reclamation is providing WaterSMART Water and Energy Efficiency Grant funding to the Western Municipal Water District for the Arlington Basin Water Quality Improvement Project. The project will install a recharge basin, an extraction well and two pipelines in Riverside County, California.

Based on our review of the Initial Study *Arlington Desalter Expansion Phase 2 Project* (California State Clearinghouse No. 2010091090), we have determined that the financial assistance does not constitute a major Federal action which would significantly affect the quality of the human environment within the meaning of Section 102(2)(C) of the National Environmental Policy Act of 1969. Accordingly, preparation of an environmental impact statement on the proposed action is not required.

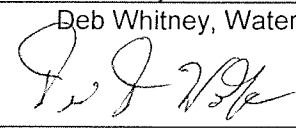
Drafted By: Alejandro Bustamante, Environmental Intern

Recommended: 
Doug McPherson, Environmental Protection Specialist

Date: 1/3/17

Reviewed By: 
Deb Whitney, Water Conservation Specialist

Date: 1-4-17

Approved: 
(Acting) Area Manager

Date: 1-4-17

BACKGROUND

The Arlington groundwater basin is a shallow aquifer that underlies an alluvial-filled valley in western Riverside County. Most of the Arlington Basin is within the City of Riverside. Groundwater quality is generally poor with total dissolved solids (TDS) concentrations on the order of 1,000 milligrams per liter (mg/l) and nitrate concentrations on the order of 90 mg/l (as NO₃). The Arlington Desalter was constructed to treat the impaired groundwater in 1990 and was approved for potable use in 2004.

The Arlington Basin Water Quality Improvement Project will construct a new recharge basin (Victoria Basin) to capture unused high quality stormwater, install a pipeline from the existing Gage Canal to Victoria Basin, and install new groundwater extraction well AD-11 with a pipeline to the Arlington Desalter. Grant Agreement No. R15AP00140 provides federal funds.

An Initial Study was prepared under the California Environmental Quality Act (CEQA). Western Municipal Water District (Western) adopted a mitigated negative declaration in February 2012, finding that an Environmental Impact Report was not required under CEQA.

PURPOSE AND NEED

The Arlington Basin Water Quality Improvement Project is aimed at improving water quality while increasing yield from the Arlington Basin. The project will increase available Arlington Basin groundwater supplies through capture and recharge of unused high quality stormwater, non-potable water, and potentially recycled water in future; and prevention of basin spillage. The volume of Arlington Desalter product water will increase by 1,800 acre-feet per year, reducing the need for imported water. The project will increase local water supply reliability, enhance water quality, preserve a low-cost source for areas served by the Arlington Desalter, and require less energy than imported water.

AUTHORITY

The financial assistance is authorized pursuant to Public Law 111-11, Section 9504(a).

PROJECT DESCRIPTION

The project has two components: 1) construction of a groundwater recharge basin (Victoria Basin) and an associated pipeline, and 2) installation of an extraction well and an associated pipeline.

Ground Water Recharge System:

Victoria Basin is a 10-acre parcel owned by Western, located at the southwest corner of Victoria Avenue and Jackson Street (APN 239-170-007). An inlet structure will be installed to direct stormwater from an existing channel into the basin. Landscaping will be planted around the basin and a perimeter fence will be installed. Non-potable water from the Gage Canal will be conveyed to Victoria Basin through a new 16-inch diameter pipeline located within Jackson Street. A site layout plan of the Victoria Basin recharge facility is attached.

Ground Water Extraction System

A new groundwater extraction well, AD-11, will be installed in the vicinity of Jackson Street and Paddington Drive. The well will be drilled to a depth of approximately 400 feet. A variable frequency drive pump will be installed in a new pump house. Fencing and landscaping will enclose the facility. A new 12-inch diameter pipeline will convey water from Well AD-11 to the Arlington Desalter, 3.5 miles away. The pipeline will be installed in Jackson Street beginning at the well, north to Indiana Avenue, then west along Indiana Avenue to Fillmore Street where it will connect to the desalter.

ADOPTION OF EXISTING ENVIRONMENTAL DOCUMENT

NEPA requires review of a proposed Federal action to determine its impact on the human environment. Council on Environmental Quality (CEQ) regulations direct Federal agencies to cooperate with State and local agencies to the fullest extent possible to reduce duplication between NEPA and State and local requirements (40 CFR 1506.2). Department of Interior regulations for implementing NEPA encourage tiering of environmental documents and provide for adoption of existing environmental documents if, upon evaluation by a responsible official, it is found to comply with relevant provisions of the CEQ regulations.

The *Final Mitigated Negative Declaration and Initial Study for the Arlington Desalter Expansion Phase 2 Project* (California State Clearinghouse No. 2010091090) evaluated seven alternative recharge and extraction options. Victoria Basin and well AD-11 are components of Alternative 5, Phase 2.

Reclamation staff reviewed the Initial Study and concluded that it adequately identifies and discloses the reasonably foreseeable environmental effects of the action. We adopt the document in accordance with regulations for implementing NEPA promulgated by the CEQ at 40 CFR 1506.3 and by the Department of the Interior at 43 CFR 46.320(a).

SUMMARY OF FINDINGS

The Initial Study concluded that none of the alternatives would have significant environmental effects after mitigation. Western's Board of Directors adopted Resolution 2757 on February 15, 2012, certifying that the initial study complies with CEQA, adopting the mitigated negative declaration, adopting the Mitigation Monitoring and Reporting Program, and approving the project. Alternative 5 was selected, which included a two-phased approach. The Board of Directors found no substantial evidence that the project will have a significant effect on the environment. A notice of determination was filed with the Riverside County Clerk on February 17, 2012 and with the California State Clearinghouse on February 21, 2012.

OTHER FEDERAL REQUIREMENTS

Clean Air Act

The South Coast Air Basin is designated as "extreme" non-attainment for 8-hour ozone and is designated non-attainment for particulate matter PM-2.5. The air basin is a maintenance area for carbon monoxide (CO) and for particulate matter PM-10. Estimated emissions from construction activities are below the *de minimis* thresholds at 40 CFR 93.153 (b). No Clean Air Act conformity determination is required.

Clean Water Act

The project will comply with the general construction stormwater National Pollutant Discharge Elimination System (NPDES) permit and will implement a Storm Water Pollution Prevention Plan (SWPPP).

Coastal Barrier Resource Act

The federal expenditure will not tend to encourage development or modification of coastal barriers. The project is not within any units of the Coastal Barrier Resources System. The Coastal Barrier Resource Act applies on the Atlantic, Gulf, and Great Lakes coasts. No system units are located along the Pacific coast.

Coastal Zone Management

The project is about 40 miles from the coastal zone boundary.

Endangered Species Act

The action will not affect any federally-listed species or critical habitat areas. The Victoria Basin site is a mowed fallow field with no natural habitat. Well AD-11 is on disturbed bare ground in a developed urban area. The pipelines will be installed within existing paved roadways through developed urban and agricultural areas. The biological report concluded that it is exceedingly unlikely that any sensitive species occur within the action area. No federal endangered or threatened species were found. No critical habitat is designated within the action area.

Environmental Justice

The project does not involve disproportionately high and adverse human health or environmental effects on minority and low-income populations. The project does not comprise a new hazard or additional hazard to a particular population. Construction will temporarily inconvenience residents along the pipeline routes, but there is no potential to adversely impact any low income or ethnic communities in the long term. The project will equally benefit all customers receiving water from the Arlington Desalter.

Farmland Protection Policy Act

The Victoria Basin site mapped as Locally Important Farmland by the California Farmland Mapping and Monitoring Program. The project is within the Riverside-San Bernardino Urbanized Area mapped by the Census Bureau. Land identified as Urbanized Area is considered "land already in or committed to urban development" and does not meet the definition of farmland under the implementing regulations for the Farmland Protection Policy Act at 7 CFR 658.2(a).

Flood Plain Management

The Victoria recharge basin is within Flood Insurance Rate Map Zone A, subject to flooding associated with a 100-year storm event. The project will not increase the risk of loss of property from flooding; increase the impact of floods upon human safety, health, and welfare; or hinder preservation and/or restoration of the natural and beneficial values served by flood plains. No housing or other human occupancy structures will be affected.

The new recharge basin will benefit the local drainage system. The recharge basin is intended to capture storm flows for recharge to the Arlington groundwater basin. Approval from the Riverside County Flood Control and Water Conservation District is required to divert stormwater to the recharge basin.

Greenhouse Gases

The project will require less energy than imported water supplies and is expected to result in reduced greenhouse gas emissions.

Indian Trust Assets

No Indian Trust Assets are involved.

Magnuson-Stevens Fishery Conservation and Management Act

The project is not near the ocean and will not affect species covered by a Fisheries Management Plan.

Migratory Bird Treaty Act

No bird nests were encountered during the surveys. The Victoria basin site is a mowed fallow field with no natural habitat. No suitable habitat for any sensitive species was found on the site. It is unlikely that any migratory bird species will nest within the basin area.

National Historic Preservation Act

An updated cultural resource report was prepared. The Gage Canal is eligible for listing in the National Register of Historic Places (NRHP). Victoria Avenue is listed in the NRHP. The undertaking includes a new turn-out in the Gage Canal and the new recharge basin will be adjacent to Victoria Avenue.

We submitted a finding of "No Adverse Effect to Historic Properties" to the California State Historic Preservation Officer (SHPO), received by the SHPO on December 1, 2016. A finding of adverse effect on a historic property does not necessarily require an EIS under NEPA per 36 CFR 800.1(a)(1).

Safe Drinking Water Act, Sole Source Aquifer Protection

The Arlington groundwater basin is not a sole source aquifer.

Socioeconomic Resources

Adverse socioeconomic impacts are not expected. Implementation of the project will not generate new permanent job opportunities that could attract people to the project area. The project will create some short term employment opportunities during construction. These jobs will not be of sufficient number or duration to attract people for permanent residence in the area.

The project will provide drought year reliability, improve local water supplies, sustain municipal water demands, and support economic vitality in the area. The project will not induce population growth. No housing or people will be displaced. No communities will be divided. No effects to public health and safety were identified. Economic or social effects are not intended by themselves to require preparation of an EIS (40 CFR 1508.14).

Wetlands

No jurisdictional wetlands or waters of the United States will be affected.

Wild and Scenic Rivers

The project does not involve any wild or scenic rivers or any river listed in the National Rivers Inventory.

AGENCY CONSULTATION AND COORDINATION

U.S. Fish and Wildlife Service

No listed species or designated critical habitats are within the action area. Consultation with the Fish and Wildlife Service under interagency cooperation regulations for the ESA (50 CFR part 402) is not required.

California State Historic Preservation Officer (SHPO)

We submitted a finding of "No Adverse Effect to Historic Properties" to the California SHPO in accordance with section 106 of the National Historic Preservation Act and regulations promulgated by the Advisory Council on Historic Preservation at 36 CFR part 800, by registered mail received on December 1, 2016. No response has been received.

U.S. Army Corps of Engineers

No Clean Water Act section 404 permit is required.

California Coastal Commission

Coastal Zone Management Act consistency certification is not required.

U.S. Natural Resources Conservation Service

Consultation under the Farmland Protection Policy Act is not required.

ENVIRONMENTAL COMMITMENTS

General: Measures listed in the attached Mitigation Monitoring and Reporting Plan will be implemented. The required CEQA mitigations are ameliorative design elements per 43 CFR 46.130(b).

REFERENCES

Final Mitigated Negative Declaration and Initial Study for the Western Municipal Water District's *Arlington Desalter Expansion Phase 2 Project*, California State Clearinghouse No.2010091090, February 2012.

ATTACHMENTS

1. Letter to California SHPO
2. Resolution 2757, Western Municipal Water District Board of Directors
3. Mitigation Monitoring and Reporting Program
4. Site Layout Plan for Victoria Basin Recharge Facility



United States Department of the Interior

BUREAU OF RECLAMATION
Lower Colorado Region
Southern California Area Office
27708 Jefferson Avenue, Suite 202
Temecula, CA 92590-2628

IN REPLY REFER TO:
LC-2631
ENV-3.00

NOV 29 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Ms. Julianne Polanco
California State Historic Preservation Officer
1725 23rd Street, Suite 100
Sacramento, CA 95816

Subject: Consultation under Section 106 of the National Historic Preservation Act for the
Arlington Basin Water Quality Improvement Project, Riverside County, California

Dear Ms. Polanco:

The Bureau of Reclamation is providing a WaterSMART Water and Energy Efficiency Grant to the Western Municipal Water District for the Arlington Basin Water Quality Improvement Project in Riverside County, California. The financial assistance constitutes an undertaking pursuant to National Historic Preservation Act (NHPA) regulations at 36 CFR Part 800.16(y). We are consulting with your office under a finding of "No Adverse Effect" for the undertaking.

I. Description and Location of the Undertaking

The undertaking has two components: 1) development of a ground water recharge basin and an associated pipeline, and 2) installation of an extraction well and an associated pipeline. The area of potential effect (APE) is within Township 3 South, Range 5 West, Sections 7, 8, 17, 18, 20, and 21, San Bernardino Baseline and Meridian, and in the El Sobrante de San Jacinto land grant. The APE is in the City of Riverside, a certified local government under NHPA section 101(c).

Ground Water Recharge System

The Victoria South Recharge Basin will be on a vacant parcel at the southwest corner of Victoria Avenue and Jackson Street (APN 239-170-007). Construction involves excavation to 15 feet below ground surface, creating a square impoundment 600 feet per side. An inlet structure will be installed to direct stormwater from an existing channel into the basin. Landscaping will be planted around the basin and a perimeter fence will be installed. The APE is 9.5 acres.

A new 12-inch diameter pipeline will be installed in Jackson Street to deliver water from the Gage Canal one mile north to the Victoria South Basin. A new turn-out will be installed in the Gage Canal. The pipeline will be installed in a trench excavated to a depth of 10 feet within a 50 foot wide corridor. The APE for the pipeline is 6 acres.

Table 1. Result of Site Location Visits

Project Component	Site Number	Site Type/Name	Comments
Ground Water Extraction System	33-007900	Residential Building	Building demolished
	33-007899	Residential Building	Building demolished
	33-02485	Abandoned Segment of Indiana Avenue	Not in the APE
	33-000496	Prehistoric Ground Stone Scatter	Site no longer exists due to residential and commercial development.
	33-004791	Lower Riverside Canal	Site no longer exists due to residential and commercial development.
	33-004495	Upper Riverside Canal	Canal has been piped.
	33-010974	Residential Buildings	Buildings demolished
Ground Water Recharge System	33-011361	Victoria Avenue	NRHP No. 00001267 and City of Riverside Cultural Heritage Landmark No. 8.
	33-0017367	Dufferin Avenue Waterline	Waterline will be vertically avoided.
	33-004768	Gage Canal	City of Riverside Cultural Heritage Landmark No. 24.

Historic buildings at sites 33-007900, 33-007899, and 33-010974 were adjacent to the APE, but have been demolished and no longer exist. Site 33-004791, the Lower Riverside Canal, has also been destroyed and built over. The former location of site 33-000496, a prehistoric ground stone scatter, is now a commercial development and no longer exists. Site 33-02485, an abandoned segment of Indiana Avenue, is outside the APE.

IV. Evaluation of Historical Significance and Finding of Effect – We have reviewed the proposed undertaking and the potential for affecting sites and historic properties in the APE. We have identified one property – the Gage Canal - within the APE that is eligible for listing in the National Register of Historic Places (National Register) and one property – Victoria Avenue - adjacent to the APE that is listed in the National Register. Two other sites within the APE are not eligible for listing in the National Register and will not be affected by the undertaking.

Site 33-004768 (Gage Canal)

The Gage Canal is within the APE. The canal is City of Riverside Cultural Heritage Landmark No. 8 and it is considered eligible for listing in the National Register under Criteria A and B. It has not been formally evaluated. The canal's period of significance is from the 1880s to the early post-WWII, a period when the citrus industry was dominant in the local economy.

The segment of Gage Canal within the APE (where the new turn-out will be installed) has been subject to alterations that occurred after the end of the period of significance. The Gage Canal continues to convey association with Matthew Gage, a person of local significance, and with its

VI. Amendment Clause - This consultation is only for the undertaking described above. If the impact/effects area of the undertaking change during the course of the project, we will reinitiate consultation under 36 CFR Part 800 and will not allow any land-disturbing activities to proceed before Section 106 of the National Historic Preservation Act is satisfied.

If you have any questions or require further information, please contact James Kangas, Regional Archaeologist staff at (702) 293-8392 or e-mail jkangas@usbr.gov.

Sincerely,



William J. Steele
Area Manager

Enclosures - 2

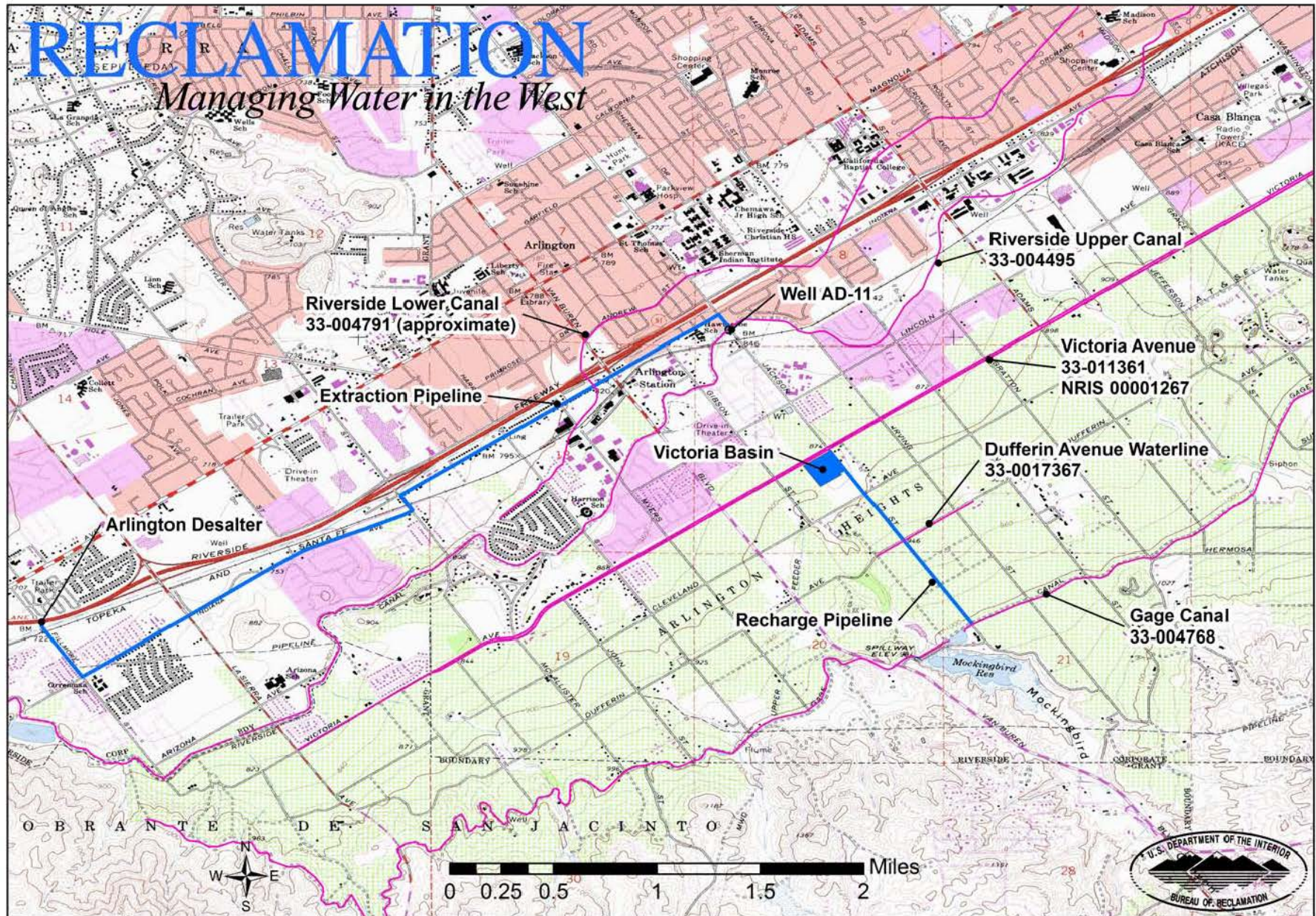
cc: Ms. Erin Gettis
Historic Preservation Officer
City of Riverside
3900 Main Street
Riverside, CA 92522
(w/encls)

Mr. Joseph Ontiveros
Cultural Resources Department
Soboba Band of Luiseño Indians
P.O. Box 487
San Jacinto, CA 92581
(w/encls)

Mr. Fakhri Manghi
Senior Engineer
Western Municipal Water District
14205 Meridian Parkway
Riverside, CA 92518
(w/encls)

Arlington Basin Water Quality Improvement Project

USGS Riverside West 7.5' Quadrangle



Southern California Area Office
August 2016

RESOLUTION 2757

A RESOLUTION OF THE WESTERN MUNICIPAL WATER DISTRICT OF RIVERSIDE COUNTY ADOPTING A MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM FOR THE ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT AND APPROVING AND ADOPTING THE PROJECT

WHEREAS, Western Municipal Water District of Riverside (the "District") is a municipal water district established in 1954 pursuant to Section 71000 et seq. of the California Water Code; and

WHEREAS, in 1990, the District, in conjunction with the Santa Ana River Watershed Project Authority ("SAWPA"), constructed and began operation of the Arlington Desalter facility ("Arlington Desalter"); and

WHEREAS, the purposes of the Arlington Desalter include treating groundwater extracted from the Arlington Basin to a level that allows its use in the area's potable water systems, lowering the groundwater table, and reducing subsurface flow to down-gradient groundwater basins; and

WHEREAS, the Arlington Desalter is currently undergoing expansion of its treatment capacity and improving treatment efficiency in order to accommodate the increased demand for treatment capacity at the plant; and

WHEREAS, the District desires to continue its ongoing efforts to improve the quality of groundwater in the Arlington Basin, to increase the availability of potable water to the District, and to better manage groundwater levels in the Arlington Basin; and

WHEREAS, to meet these goals, the District proposed either constructing additional extraction wells alone, or constructing extraction wells in conjunction with recharge basins ("the Potential Project"); and

WHEREAS, District staff determined that the Potential Project

is subject to the requirements of the California Environmental Quality Act ("CEQA") and had prepared an Initial Study; and

WHEREAS, on the basis of the Initial Study, which concluded that none of the alternatives studied as the Potential Project will have a significant impact on the environment after mitigation, District staff determined that a Mitigated Negative Declaration ("MND") should be prepared for the Potential Project; and

WHEREAS, an MND, State Clearinghouse Number 2010091090, was prepared for the Potential Project pursuant to CEQA, the State CEQA Guidelines, and the District's Local CEQA Guidelines; and

WHEREAS, the MND fully analyzed seven alternatives for the potential construction of up to four new groundwater extraction wells at nine potential locations within the Project area, with and without the development of water recharge basins and pump stations to convey surface water from the existing flood control channels to the proposed recharge basins; and

WHEREAS, among the other alternatives, the MND analyzed Alternative 5, which includes a two-phased approach, with Phase 1 commencing in 2012 with the objective of sustaining water levels at the existing desalter wells with localized recharge, and Phase 2 bringing online three new desalter wells and two recharge sites in 2017, as well as installing an approximately 5.5-mile raw water pipeline to convey the groundwater from the new wells to the desalter facility; and

WHEREAS, the District, as the lead agency, provided copies of the draft MND and Initial Study to the public and to the State Clearinghouse for an initial thirty-day review and comment period pursuant to Public Resources Code section 21091; and

WHEREAS, the comment period began on, or about, September 30, 2010, and was subsequently extended three times, ultimately ending on, or about, January 10, 2011; and

WHEREAS, a Mitigation Monitoring and Reporting Program ("MMRP") was prepared for the Project; and

WHEREAS, the District's Board of Directors ("Board") has carefully reviewed the final MND, MMRP, and all of the information contained in the record for the Project; and

WHEREAS, all other legal prerequisites to the adoption of this Resolution have occurred.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Western Municipal Water District of Riverside County as follows:

1. Of the seven alternatives identified as a Potential Project in the MND, the Board selects Alternative 5 as the Project ("the Project") being considered herein.

2. The Board finds that the MND and Initial Study prepared for the Project contain a complete and accurate reporting of the environmental impacts associated with the Project. The documents have been completed in compliance with CEQA, the State CEQA Guidelines, and the District's Local CEQA Guidelines.

3. The Board finds that the MND and Initial Study prepared for the Project reflect the independent judgment and analysis of the District.

4. As the decision-making body for the District, which is the lead agency under CEQA, the Board has reviewed and considered the information contained in MND, Initial Study, and administrative record, together with all oral and written comments received during the public review process, prior to approving the Project.

5. On the basis of the whole record before it, the Board finds that there is no substantial evidence that the Project will have a significant effect on the environment with the implementation of the identified mitigation, and all environmental impacts of the Project are insignificant, after mitigation.

6. The Board hereby adopts the MND for the Project.

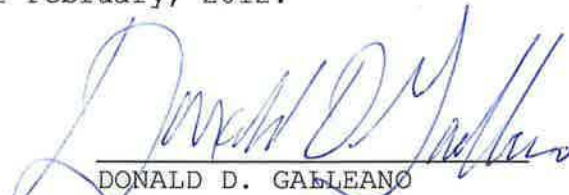
7. The Board hereby adopts the MMRP as a Condition of Approval of the Project.

8. The Board hereby approves and adopts the Arlington Desalter Expansion Phase 2 Project.

9. A copy of the Mitigated Negative Declaration, MMRP, and all other documents and materials that constitute the record of proceedings on which these findings are based are located at: Western Municipal Water District, 14205 Meridian Parkway, Riverside, CA 92518. The Custodian of Records is Jeff Sims, P.E.

10. The Board directs and authorizes staff to file a Notice of Determination with the County of Riverside within five working days of Project approval.

ADOPTED, this 15th day of February, 2012.


DONALD D. GALLEANO
President

February 15, 2012

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of Resolution 2757 adopted by the Board of Directors of said District at the duly-noticed regular meeting said Board held on the 15th day of February, 2012.


THOMAS P. EVANS
Secretary-Treasurer

MITIGATION MONITORING AND REPORTING PROGRAM

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Air Quality					
III-1 Using best available control measures during soil disturbance. The menu of enhanced dust control measures includes the following: <ul style="list-style-type: none"> • Limit the disturbance “footprint” to as small an area as practical. • Water all active construction areas at least twice daily. • Cover all off-site haul trucks or maintain at least 2 feet of freeboard. • Pave or apply water four times daily to all unpaved parking or staging areas. • Sweep or wash any site access points within 30 minutes of any visible dirt deposition on any public roadway. • Cover or water twice daily any on-site stockpiles of debris, dirt or other dusty material. • Suspend all operations on any unpaved surface if winds exceed 25 mph. • Stockpile excess dirt from levee reconstruction as far from homes as reasonable. 	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	Western Municipal Water District (WMWD)	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that the fugitive dust control measures are implemented. A copy of inspection notes shall be retained in the project file.	
III-2 Limit allowable idling to 5 minutes for trucks and heavy equipment before shutting the equipment down.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that the fugitive dust control measures are implemented. A copy of inspection notes shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure		Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Air Quality (continued)						
III-3	Utilize equipment whose engines are equipped with diesel oxidation catalysts if available.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that the fugitive dust control measures are implemented. A copy of inspection notes shall be retained in the project file.	
III-4	Utilize diesel particulate filter on heavy equipment where feasible.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that the fugitive dust control measures are implemented. A copy of inspection notes shall be retained in the project file.	
III-5	Utilize Tier 3 rated diesel engines where possible.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that the fugitive dust control measures are implemented. A copy of inspection notes shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Cultural Resources					
V-1 In the unlikely event that unknown or buried cultural resources are encountered during construction activities, all work in the vicinity of the find shall be halted or redirected to avoid the area of the find. A qualified archaeologist shall be brought to the site to evaluate the find and make recommendations on the proper disposition of the find in accordance with State law and CEQA requirements. It shall be the responsibility of WMWD to ensure that the archaeologists recommendations are implemented.	Initial Study	This measure shall be implemented during construction.	WMWD	A report by a qualified professional shall be compiled on the nature of the discovery and its disposition in accordance with the requirements of this measure. A copy of the report shall be retained in the project file.	
V-2 In the unlikely event that unknown or buried paleontologic resources are encountered during construction activities, all work in the vicinity of the find shall be halted or redirected to avoid the area of the find. A qualified paleontologist shall be brought to the site to evaluate the find and make recommendations on the proper disposition of the find in accordance with State law and CEQA requirements. It shall be the responsibility of WMWD to ensure that the paleontologists recommendations are implemented.	Initial Study	This measure shall be implemented during construction.	WMWD	A report by a qualified professional shall be compiled on the nature of the discovery and its disposition in accordance with the requirements of this measure. A copy of the report shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Geology and Soils					
VI-1 The WMWD shall implement an investigation of the type and density of soils within the areas that could be susceptible to an increase in groundwater levels to within 30 feet of the ground surface. Data obtained by these investigations shall be used to determine the appropriate depth to groundwater allowed by the recharge program.	Initial Study	The investigation shall be implemented prior to initiating recharge and the management of depth shall occur during future recharge operations.	WMWD	A copy of the soils investigation shall be retained in the project file. Annual documentation shall be placed in the project file verifying that the depth to groundwater allowed at each recharge site is being observed. This documentation shall be retained in the project file.	
VI-2 The WMWD shall implement a groundwater monitoring program at and adjacent to the proposed recharge basins to determine the depths to groundwater that occur with implementation of the recharge program. The WMWD shall utilize the data obtained from the groundwater monitoring program to control the amount and timing of water recharged to the Arlington Basin so as to not increase the potential for liquefaction to occur at offsite property. This water management program could also include the installation and operation of water extraction wells to control the depth to groundwater and the potential for liquefaction to result from the water recharge program.	Initial Study	The monitoring program shall be designed prior to implementing recharge. Ongoing management of recharge shall occur during future recharge operations.	WMWD	A copy of the monitoring program shall be retained in the project file. Annual documentation shall be placed in the project file verifying that the monitored data are being used to actively manage the amount and timing of recharge to ensure that liquefaction potential is not being increased by the proposed project. This documentation shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Hazards and Hazardous Materials					
VII-1 The District shall review and approve a construction traffic management plan for work in public roads that complies with the Work Area Traffic Control Handbook or other applicable City of Riverside standards and requirements to provide adequate traffic control and safety during construction. This plan shall include methods of diverting, controlling or rerouting traffic around construction activity in public roads and adequately controlling surface water drainage and erosion in the project area. It is anticipated that measures to be implemented will include but not be limited to the use of flag persons, signage and lane control to ensure the safe control of traffic through construction areas that affect public roads.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the approved traffic management plan shall be retained in the project file. Field inspections by WMWD Staff shall verify that the required traffic management measures are being implemented. A copy of inspection notes shall be retained in the project file.	
VII-2 The District shall require that all disturbances to public roads be repaired in a manner that complies with the Standard Specifications for Public Works Construction (green book) or other applicable City standards and requirements. It is anticipated that measures which will be implemented will be the proper backfilling and compaction of excavated trenches, adequate control of surface water drainage and the proper resurfacing of roads.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that this measure is implemented. A copy of inspection notes shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Hydrology and Water Quality					
<p>VIII-1 The WMWD shall require that the construction contractor prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) which specifies Best Management Practices (BMPs) that will prevent all construction pollutants from contacting stormwater and with the intent of keeping all products of erosion from moving offsite into receiving waters. The SWPPP shall include a Spill Prevention and Cleanup Plan that identifies the methods of containing, cleanup, transport and proper disposal of hazardous chemicals or materials released during construction activities that are compatible with applicable laws and regulations. BMPs to be implemented in the SWPPP may include but not be limited to:</p> <ul style="list-style-type: none"> • The use of silt fences; • The use of temporary stormwater desilting or retention basins; • The use of water bars to reduce the velocity of stormwater runoff; • The use of wheel washers on construction equipment leaving the site • The washing of silt from public roads at the access point to the site to prevent the tracking of silt and other pollutants from site onto public roads. 	Initial Study	The SWPPP shall be compiled prior to initiating ground disturbance and implemented during construction	WMWD	A copy of the SWPPP shall be retained in the project file. Field inspections by District Staff shall verify that the best management practices are implemented. A copy of inspection notes shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Noise					
XI-1 The WMWD shall require that all construction vehicles and fixed or mobile mechanical equipment be equipped with properly operating and maintained sound attenuating devices, such as mufflers.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that this noise measure is being implemented. A copy of inspection notes shall be retained in the project file.	
XI-2 The WMWD shall require that sound attenuation curtains or other noise attenuation devices be utilized during well drilling activities that occur outside the normal construction times identified by the City of Riverside Municipal Code.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that this noise measure is being implemented. A copy of inspection notes shall be retained in the project file.	
Utilities and Service Systems					
XVI-1 The WMWD's contract with the construction contractor(s) and recharge basins maintenance contractor(s) shall include the requirement that all materials that can feasibly be recycled be salvaged and recycled. This includes, but is not limited to wood, metals, concrete, vegetation and asphalt. The contractors shall submit a recycling plan that is consistent with the County's waste reduction programs to the District for review and approval prior to the start of construction/maintenance activities.	Initial Study	This measure shall be incorporated into the construction contract and implemented during construction.	WMWD	A copy of the construction contract shall be retained in the project file. Field inspections by District Staff shall verify that this solid waste management measure is being implemented. A copy of inspection notes shall be retained in the project file.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
<i>Additional Mitigation Measures in Response to Comments</i>					
The District will install at least one recharge basin prior to initiating additional groundwater extraction from the Arlington Basin. All of the recharge basins will be installed prior to increasing groundwater extractions to the maximum authorized under this environmental document. The District will manage groundwater extractions and recharge to achieve an overall balance for long-term operations of the Basin.	Responses to Comments	This measure shall be implemented following the installation of the first recharge basin. The City shall be notified that the basin is installed prior to initiating groundwater extractions. The Basin groundwater management shall occur over the life of the project.	WMWD	The District shall document the date of recharge basin installation and date of first groundwater extractions and place the documentation in the project file with a copy to the City of Riverside. Every three years until 2030, the District shall compile a summary of management actions carried out in the Arlington Basin. A copy of this tri-annual document shall be retained in the project file and a copy provided to the City of Riverside.	

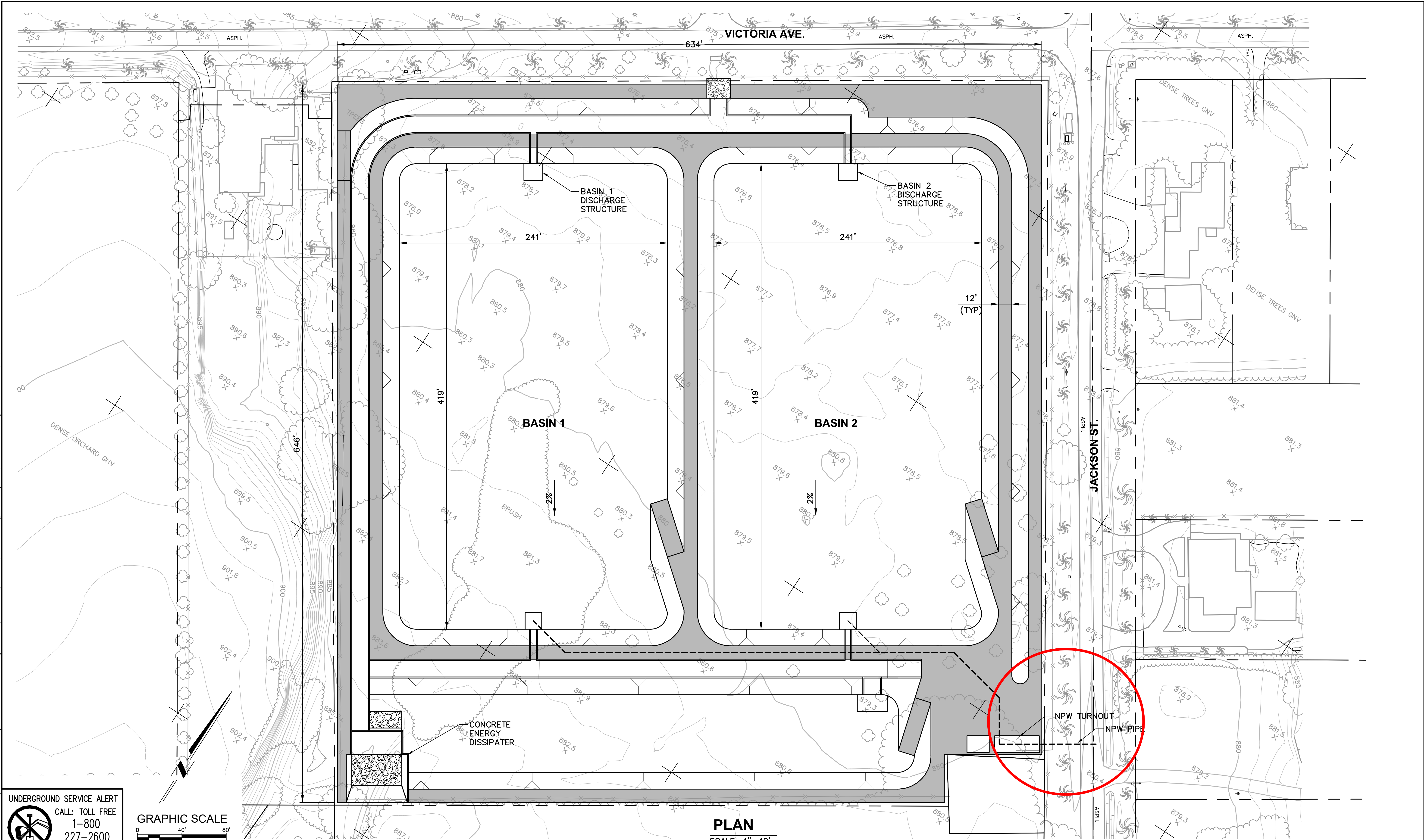
**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
In response to City of Riverside input during the public review process, the District has agreed to proceed with the La Sierra Metrolink basin as a temporary recharge facility. As part of the implementation phase of this project, Western will be required to obtain a site use agreement with the current property owner of the site (lease or license). Western will include termination clause in the site use agreement that indicates Western will terminate use of the site within 1 year upon the City of Riverside's written notification to Western and the current property owner of a proposed commercial development application for that property. Western will provide the City with an opportunity to review the future use agreement for administrative review and comment prior to entering the final use agreement with the property owner to insure consistency with the intent of this mitigation measure.	Responses to Comments	The District shall notify the City following installation of the Basin. The City shall provide the District with notification of development applications and any entitlements for the La Sierra Metrolink basin as they are submitted or granted.	WMWD	A copy of the City notification shall be retained in the project file when it is forwarded to the City. The District shall retain copies of the development applications and entitlement documents when processed or granted by the City.	
The District shall complete designs for new structures and new facility landscaping prior to awarding contracts for their construction. These designs shall be submitted to the City of Riverside staff for administrative review at the 50% design stage. The District shall incorporate those design recommendations that are consistent with City design guidelines.	Responses to Comments	The District shall notify the City following installation of the Basin. The City shall provide the District with notification of development applications and any entitlements for the La Sierra Metrolink basin as they are submitted or granted.	WMWD	A copy of the City notification shall be retained in the project file when it is forwarded to the City. The District shall retain copies of the development applications and entitlement documents when processed or granted by the City.	

**WESTERN MUNICIPAL WATER DISTRICT
ARLINGTON DESALTER EXPANSION PHASE 2 PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

Mitigation Measure	Source	Implementation Schedule	Responsible Party	Verification	Status / Date / Initials
Prior to the construction of new extraction facilities, the WMWD shall enter into an Engineering and Operation Agreement with City of Riverside that will facilitate annual consultation on volumes to be recharged, stored and/or extracted. The Agreement will work within the framework of the proposed Groundwater Management Plan for the Arlington Basin to meet the long-term objectives of the basin stakeholders.	Responses to Comments	The Agreement shall be completed prior to construction of new extraction facilities and implemented over the life of the project.	WMWD and City of Riverside	A copy of the Agreement shall be placed in the project file prior to installation of new extraction facilities. A record of annual consultations shall be retained in the project file.	

P:\101-Engineering\Western Municipal Water District\9447 Victoria Recharge Basin\6 - Design Data\Pilot Testing Phase\DWG\9447 X-Grading-Alt. 1 12/16/2016 1:02 PM



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227-2600
TWO WORKING DAYS BEFORE YOU DIG

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0 40' 80'
SCALE: 1" = 40'

PLAN
SCALE: 1"=40'



REV	DATE	DESCRIPTION
1		
2		
3		
4		

DESIGN BY:	KB	RIVERSIDE BUSINESS TAX CERTIFICATE NO. 0129559, EXP 7/31/16
DRAWN BY:	KK, NH	
CHECKED BY:	KS	
DATE:	4/1/16	
PROJECT ENGINEER	<i>D. J. Decker</i>	RE NO. 042586 DATE 4/1/16

DUDEK
605 Third Street
Encinitas, CA 92024
760.942.5147 Fax 760.632.0164

PLANS APPROVED BY:	
CITY OF RIVERSIDE PLANNING DIVISION	DATE



WESTERN MUNICIPAL WATER DISTRICT
PILOT STUDY FOR VICTORIA BASIN RECHARGE FACILITY

SITE LAYOUT ALTERNATIVE 2

DRAWING NO.	SHEET
	OF 3 SHEETS



United States Department of the Interior


BUREAU OF RECLAMATION
Lower Colorado Region
Southern California Area Office
27708 Jefferson Avenue, Suite 202
Temecula, CA 92590-2628

IN REPLY REFER TO:
SCAO-1500
ENV-3.00

JAN 19 2017

MEMORANDUM

To: File

From: Douglas S. McPherson 
Environmental Protection Specialist

Subject: Arlington Basin Water Quality Improvement Project, Riverside County, California

Cooperative Agreement No. R15AP00140 provides a WaterSMART Water and Energy Efficiency Grant to the Western Municipal Water District to implement the Arlington Basin Water Quality Improvement Project in Riverside County, California. A Finding of No Significant Impact (No. 15-SCAO-003-FONSI) was approved on January 4, 2017.

Subsequent to the approval of the FONSI we received the attached letter from the California State Historic Preservation Officer (SHPO), concurring with our determination that the undertaking would result in no adverse effects to historic properties. The SHPO concurrence will be appended to the approved FONSI for the administrative record.

Attachment

cc: SCAO-1500

**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

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SACRAMENTO, CA 95816-7100
(916) 445-7000 Fax: (916) 445-7053
calshpo@parks.ca.gov
www.ohp.parks.ca.gov

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EDMUND G. BROWN, JR., Governor		
REPLY DATE		
DATE	INITIALS	CODE
1/16	PDW	2008
1/10	PDW	1808
Classify ref: BUR 2016 1201_001		
Project		
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Keyword		



January 05, 2017

Mr. William J. Steele, Regional Area Manager
U.S. Bureau of Reclamation, Lower Colorado Region
Southern California Area Office
27708 Jefferson Avenue, Suite 202
Temecula, CA 92590-2628

Subject: Section 106 Consultation for the Arlington Basin Water Quality Improvement Project, Riverside County, California

Dear Mr. Steele:

The Office of Historic Preservation (OHP) received on December 01, 2016 your letter initiating consultation on the above referenced project to comply with Section 106 of the National Historic Preservation Act of 1966 (as amended) and its implementing regulations at 36 CFR Part 800. The Bureau of Reclamation (Reclamation) is providing a WaterSMART Water and Energy Efficiency Grant to the Western Municipal Water District (WMWD) for the Arlington Basin Water Quality Improvement Project in Riverside County, California. The following documentation was provided:

- *Location Map: Arlington Basin Water Quality Improvement Project (August 2016).*
- *Identification and Evaluation of Historic Properties: Arlington Desalter System Expansion Project, City of Riverside, Riverside, County (By: B.T. Tang, M. Hogan, CRM TECH, Colton, CA, August, 2009). [For: Tom Dodson and Associates, (B. Gatlin, VP), Sacramento, CA] [Submitted to: Western Municipal Water District, Riverside, CA and State Water Resources Control Board, Sacramento, CA] [Tang & Hogan 2009]*
- *Letter Report by CRM TECH: Addendum to Historical/Archaeological Resources Survey: Arlington Basin Water Quality Improvement Project, City of Riverside, Riverside, County, CA; July 22, 2016. [For: T. Dodson, President, Tom Dodson & Associates, San Bernardino, CA]*

The undertaking has two components: a.) development of a ground water recharge basin and an associated pipeline, and b.) installation of an extraction well and an associated pipeline.

The Victoria South Recharge Basin will be on a vacant parcel at the southwest corner of Victoria Avenue and Jackson Street. Construction involves excavation to 15 feet below ground surface, creating a square earthen impoundment 600 feet per side. A 12-inch pipeline will be installed in Jackson Street to deliver water from the Gage Canal one mile north; a new turn-out will be installed in the Gage Canal to obtain the water.

A new 12-inch pipeline will convey water from Well AD-11 to the Arlington Desalter, about four miles away. The pipeline will follow Jackson Street beginning at the well, north to Indiana Avenue, then west along Indiana to Fillmore Street where it will connect to the desalter.

The Area of Potential Effects consists of all access, staging, the basin and construction sites and linear trenching for the pipelines for the two components for a total of about 40.8 acres. Vertical excavation depth for the ground water recharge basin will be 15 feet and for the pipelines will be 10 feet. The extraction well will be drilled to about 400 feet deep.

Efforts to identify historic properties that may be affected included a records search, archival and historical research, a soils and geoarchaeological analysis to determine the potential for subsurface information bearing deposits, a review of records for previously recorded sites, and a comprehensive pedestrian survey. A total of 53 sites were identified in the study area; of those 10 are within, adjacent to or within close proximity to the APE. On-site visits found that only four of the 10 still exist. One property, the Gage Canal, is eligible for listing in the National Register of Historic Places (NRHP) and one property, Victoria Avenue, adjacent to the APE is listed in the NRHP under Criteria A and C (2000). The two other sites within the APE are not eligible for listing in the NRHP and will not be affected by the undertaking. The soils and geoarchaeological analysis concluded that the APE locations are on old alluvial fan soils with very low probability of subsurface information bearing deposits. Should any unexpected discoveries occur, Reclamation will follow provisions under 36 CFR 800.11 and 13(b).

On behalf of the WMWD and Reclamation, CRM TECH contacted a total of 16 Native American representatives to solicit local Native American input regarding sites of potential religious and cultural significance or other concerns associated with the proposed undertaking. Responses were received from the Gabrielino/Tongva San Gabriel Band of Mission Indians, Santa Rosa Band of Mission Indians, Soboba Band of Luiseño Indians, Serrano Band of Mission Indians, Temecula (Pechanga) Band of Luiseño Indians, and Tongva Ancestral Territorial Tribal Nation. Reclamation will continue to work to address concerns and make notifications as required.

Based on review of geologic processes, past land use, historical research and the scope of current project activities Reclamation has determined that the undertaking has a very low potential to affect archaeological resources.

The proposed work for the eligible Gage Canal is at a canal section already previously modified and therefore the current work will not further diminish its remaining historic character at the immediate locale or for the balance of the larger canal system.

Reclamation has also concluded that the Victoria South Basin is a low profile earthen basin that will be constructed in a vacant parcel at an intersection along the NRHP listed Victoria Avenue, a divided scenic road about seven miles long, and the completed reservoir will appear similar to other existing agricultural features in the surrounding area. Victoria Avenue, built in 1892, is significant as a dual lane thoroughfare connecting downtown Riverside to Arlington Heights, a historic rural citrus growing area. The avenue is lined with abundant exotic historic plantings placed along its route and within its median.

Reclamation finds that the small size of the reservoir location compared to the seven mile length of Victoria Avenue, the low profile of the reservoir embankment, and the planned landscape vegetation to further screen it from the Victoria Avenue public way view shed will not adversely affect Victoria Avenue's ability to continue to meet NRHP Criteria A and C or its ability to retain its status as a City of Riverside Cultural Heritage Landmark.

Based on the above discussion and information provided in the enclosed reports, Reclamation has reached a finding of no adverse effect on historic properties and invites comments on the APE and historic properties identification efforts, and is requesting concurrence with the finding of no adverse effect.

Following OHP staff review of the documentation, the following comments are offered.

- Pursuant to 36 CFR 800.4(a)(1), there are no objections to the APE as defined;
- Pursuant to 36 CFR 800.4(b), USFWS has documented a reasonable and good faith effort to identify historic properties within the area of potential effects.
- Reclamation has determined that the proposed undertaking would result in no adverse effects to the historic properties affected. Pursuant to 36 CFR 800.5(b), **I concur.**

Please be advised that under certain circumstances, such as unanticipated discovery or a change in project description, Reclamation may have additional future responsibilities for this undertaking under 36 CFR Part 800 (as amended). Should you require further information, please contact Jeanette Schulz at Jeanette.Schulz@parks.ca.gov or (916) 445-7031.

Sincerely,



Julianne Polanco
State Historic Preservation Officer