Appendix A

Subject-Specific Document Timelines for the Centro and Baja Subareas

- Mojave River Hydrology and Upstream Dams
- Ungaged Local Mountain Runoff
- Harper Lake Area
- Riparian Vegetation and Water Demand

Key Technical Reports of Mojave River Hydrology and Upstream Dams

Year

1960

DWR, 1964, Determination of Underflow at the Cedar Springs Damsite, July.

1965

USACE, 1966, Design Memorandum No. 2, General Design for Mojave River Forks Reservoir, October.

SBC Flood Control Dsitrict, 1968, The Mojave River and the Forks Dam, May.

USGS, Hardt, 1969, Mojave River Basin Ground-Water Recharge-Floods of January and February 1969, Open-File Report.

1970

USACE, 1970, Information Pamphlet on Mojave River Forks Reservoir, June.

Cedar Springs Dam and Mojave River Dam completed - Summer 1971

USGS, Hardt, 1971, Hydrologic Analysis of Mojave River Basin, CA, Using Electric Analog Model. Open-File Report, August.

1975

USGS, Durbin and Hardt, 1974, Hydrologic Analysis of the Mojave River, CA using a Mathematical Model, WRIR 17-74.

Bookman Edmonston, 1978, Report on Analysis of Releases from Lake Silverwood in Satisfaction of Prior Downstream Rights, May 5.

1980

USGS, Buono and Lang, 1980, Aquifer Recharge from the 1969 and 1978 Floods in the Mojave River Basin, CA, WRIR 80-207.

USACE, 1981, Preliminary Study, Modifications to Mojave Dam, Mojave River, July.

MWA, 1983, Historic and Present Conditions, Helendale to Calico-Newberry Fault, December.

1985

1990

Hanson, J.C., 1993, Analysis of the Flow of the Mojave River at Afton, CA, February. Prepared for MWA.

1995

USGS, Lines, 1996, Ground-Water and Surface-Water Relations along the Mojave River, Southern California, WRIR 95-4189.

2000

USGS, Stamos et al., 2001, Simulation of Groundwater-Flow in the Mojave River Basin, CA. WRIR 01-4002.

Wagner, 2003, Memorandum re: Baja Subarea - Question 4 from Court's Intended Ruling, Jan-29, 2003. March 12, 2003.

2005

Wagner, 2008, Presentation on Water Supply and WaterUse Issues Affecting the Baja Subarea and the Proposed Free Production Allowance for Water Year 2008-09, Watermaster Adhoc Committee Meeting, March 10.

2010

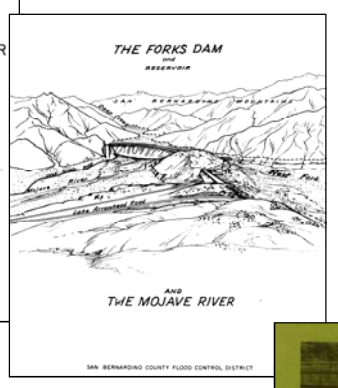

DESIGN MEMORANDUM NO. 2

GENERAL DESIGN

FOR

MOJAVE RIVER FORKS RESERVOIR

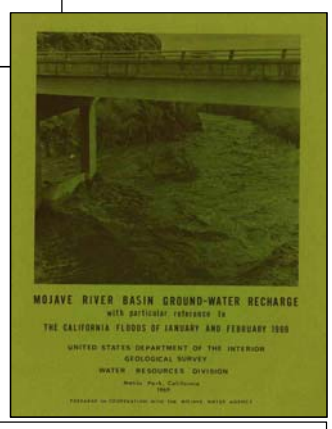
U.S. ARMY ENGINEER DISTRICT, LOS ANGELES
CORPS OF ENGINEERS
OCTOBER, 1966


THE FORKS DAM

AND

THE MOJAVE RIVER

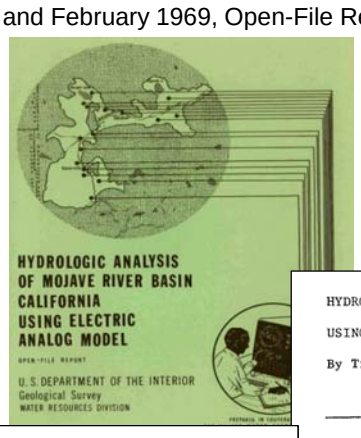
SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT


MOJAVE RIVER BASIN GROUND-WATER RECHARGE

with particular reference to

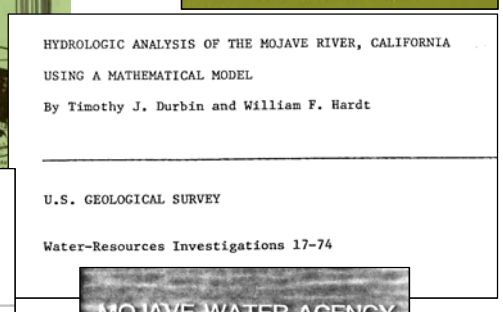
THE CALIFORNIA FLOODS OF JANUARY AND FEBRUARY 1969

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION


HYDROLOGIC ANALYSIS
OF MOJAVE RIVER BASIN
CALIFORNIA
USING ELECTRIC
ANALOG MODEL

OPEN-FILE REPORT

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
WATER RESOURCES DIVISION

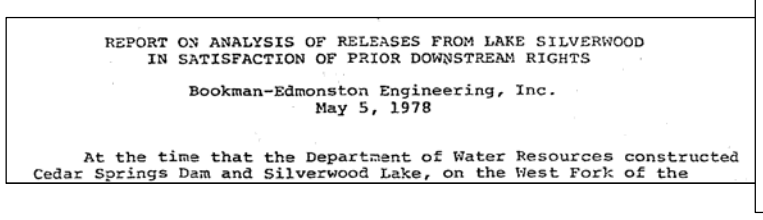

HYDROLOGIC ANALYSIS OF THE MOJAVE RIVER, CALIFORNIA

USING A MATHEMATICAL MODEL

By Timothy J. Durbin and William F. Hardt

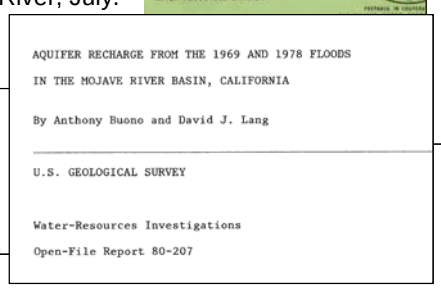
U.S. GEOLOGICAL SURVEY

Water-Resources Investigations 17-74


REPORT ON ANALYSIS OF RELEASES FROM LAKE SILVERWOOD
IN SATISFACTION OF PRIOR DOWNSTREAM RIGHTS

Bookman-Edmonston Engineering, Inc.
May 5, 1978

At the time that the Department of Water Resources constructed Cedar Springs Dam and Silverwood Lake, on the West Fork of the


AQUIFER RECHARGE FROM THE 1969 AND 1978 FLOODS

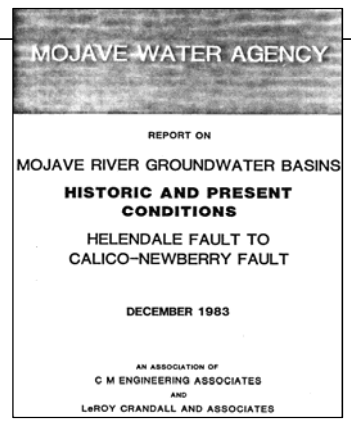
IN THE MOJAVE RIVER BASIN, CALIFORNIA

By Anthony Buono and David J. Lang

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations

Open-File Report 80-207


MOJAVE WATER AGENCY

REPORT ON

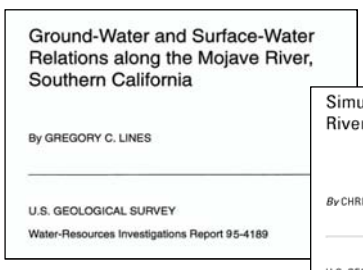
MOJAVE RIVER GROUNDWATER BASINS

HISTORIC AND PRESENT CONDITIONS

HELENDALE FAULT TO
CALICO–NEWBERRY FAULT

DECEMBER 1983

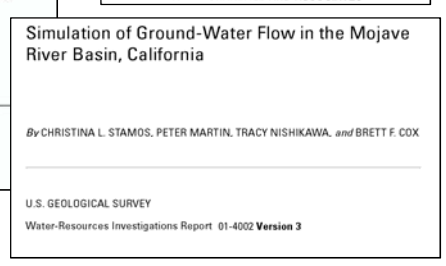
AN ASSOCIATION OF
C M ENGINEERING ASSOCIATES
AND
LeROY CRANDALL AND ASSOCIATES


Ground-Water and Surface-Water Relations along the Mojave River, Southern California

By GREGORY C. LINES

U.S. GEOLOGICAL SURVEY

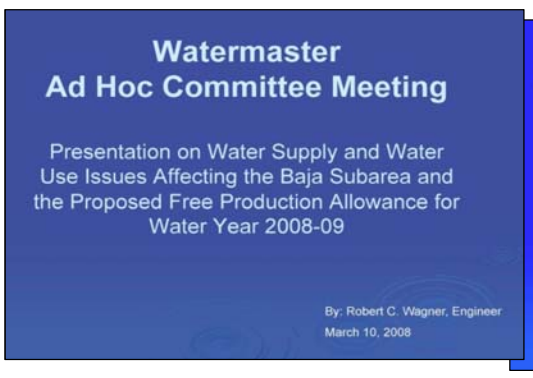
Water-Resources Investigations Report 95-4189


Simulation of Ground-Water Flow in the Mojave River Basin, California

By CHRISTINA L. STAMOS, PETER MARTIN, TRACY NISHIKAWA, and BRETT F. COX

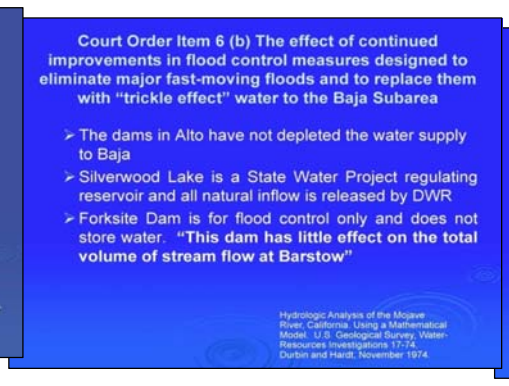
U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 01-4002 **Version 3**


Watermaster
Ad Hoc Committee Meeting

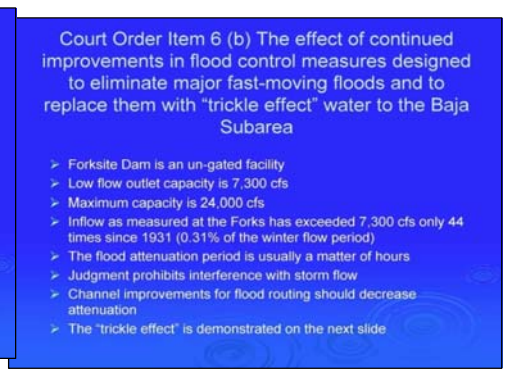
Presentation on Water Supply and Water Use Issues Affecting the Baja Subarea and the Proposed Free Production Allowance for Water Year 2008-09

By: Robert C. Wagner, Engineer
March 10, 2008


Court Order Item 6 (b) The effect of continued improvements in flood control measures designed to eliminate major fast-moving floods and to replace them with "trickle effect" water to the Baja Subarea

- The dams in Alto have not depleted the water supply to Baja
- Silverwood Lake is a State Water Project regulating reservoir and all natural inflow is released by DWR
- Forksite Dam is for flood control only and does not store water. **"This dam has little effect on the total volume of stream flow at Barstow"**

Hydrologic Analysis of the Mojave River, California, Using a Mathematical Model. U.S. Geological Survey, Water-Resources Investigations 17-74. Durbin and Hardt, November 1974.


Court Order Item 6 (b) The effect of continued improvements in flood control measures designed to eliminate major fast-moving floods and to replace them with "trickle effect" water to the Baja Subarea

- Forksite Dam is an un-gated facility
- Low flow outlet capacity is 7,300 cfs
- Maximum capacity is 24,000 cfs
- Inflow as measured at the Forks has exceeded 7,300 cfs only 44 times since 1931 (0.31% of the winter flow period)
- The flood attenuation period is usually a matter of hours
- Judgment prohibits interference with storm flow
- Channel improvements for flood routing should decrease attenuation
- The "trickle effect" is demonstrated on the next slide

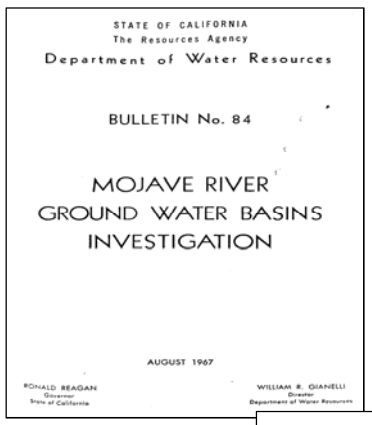
Key Technical Reports of Ungaged Local Mountain Runoff

Year

1960

1965

DWR, 1967, Bulletin No. 84: Mojave River Ground Water Basins Investigation.


STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

BULLETIN No. 84

MOJAVE RIVER
GROUND WATER BASINS
INVESTIGATION

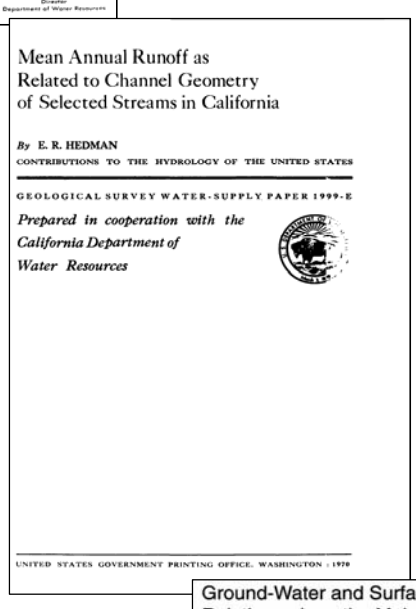
AUGUST 1967

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

1970

USGS, Hedman, 1970, Mean Annual Runoff as Related to Channel Geometry of Selected Streams in California, Geological Suvey Water-Supply Survey 1999-E.


Mean Annual Runoff as
Related to Channel Geometry
of Selected Streams in California

By E. R. HEDMAN

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

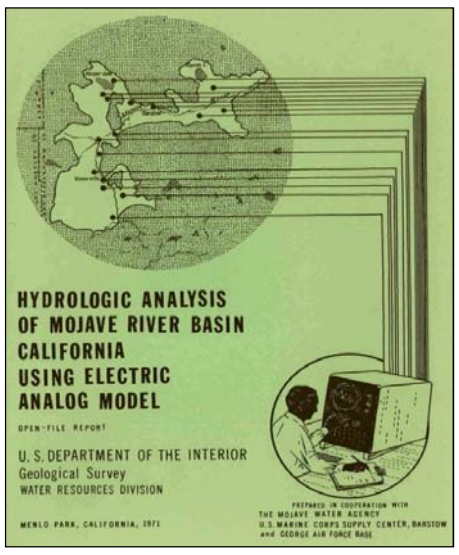
GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1999-E

Prepared in cooperation with the California Department of Water Resources

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 1970

USGS, Hardt, 1971, Hydrologic Analysis of Mojave River Basin, CA, Using Electric Analog Model. Open-File Report.

1975


HYDROLOGIC ANALYSIS
OF MOJAVE RIVER BASIN
CALIFORNIA
USING ELECTRIC
ANALOG MODEL

OPEN-FILE REPORT

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
WATER RESOURCES DIVISION

MENLO PARK, CALIFORNIA, 1971

PREPARED IN COOPERATION WITH
THE MOJAVE WATER AGENCY
U.S. MARINE CORPS SUPPLY CENTER, BARSTOW
and GEORGE AIR FORCE BASE

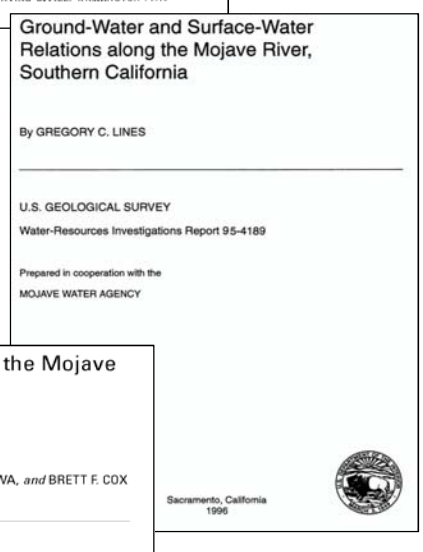
1980

1985

1990

1995

USGS, Lines, 1996, Ground-Water and Surface-Water Relations along the Mojave River, Southern California, WRIR 95-4189.


Ground-Water and Surface-Water
Relations along the Mojave River,
Southern California

By GREGORY C. LINES

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 95-4189

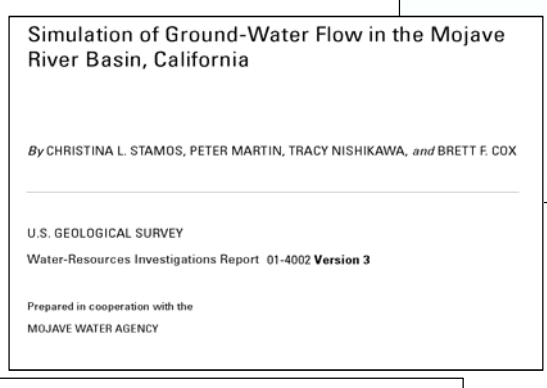
Prepared in cooperation with the

MOJAVE WATER AGENCY

Sacramento, California
1996

2000

USGS, Stamos et al., 2001, Simulation of Groundwater-Flow in the Mojave River Basin, CA. WRIR 01-4002.


Simulation of Ground-Water Flow in the Mojave River Basin, California

By CHRISTINA L. STAMOS, PETER MARTIN, TRACY NISHIKAWA, *and* BRETT F. COX

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 01-4002 **Version 3**

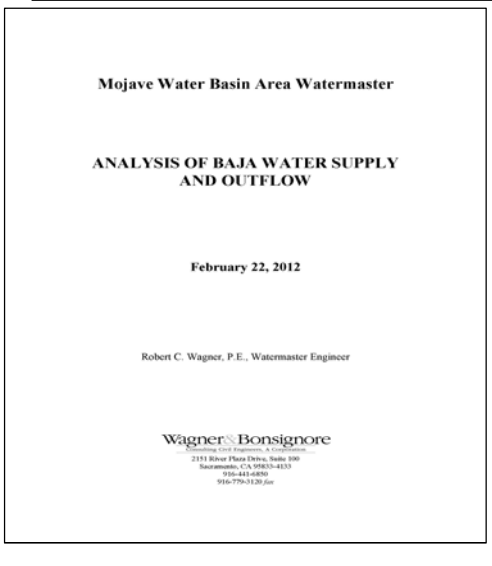
Prepared in cooperation with the

MOJAVE WATER AGENCY

2005

2010

Wagner and Bonsignore, 2012, Analysis of Baja Water Supply and Outflow February 22, 2012


Mojave Water Basin Area Watermaster

ANALYSIS OF BAJA WATER SUPPLY AND OUTFLOW

February 22, 2012

Robert C. Wagner, P.E., Watermaster Engineer

Wagner & Bonsignore
Consulting Civil Engineers, A Corporation
2151 River Plaza Drive, Suite 100
Sacramento, CA 95833-4133
916-443-6850
916-779-3120 fax

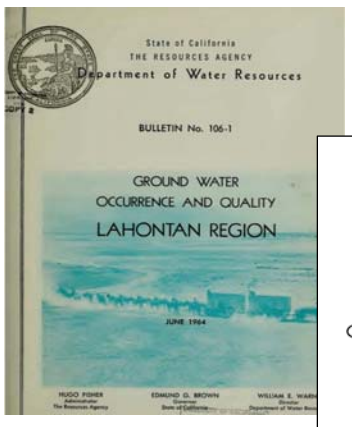
Key Technical Reports of the Harper Lake Area

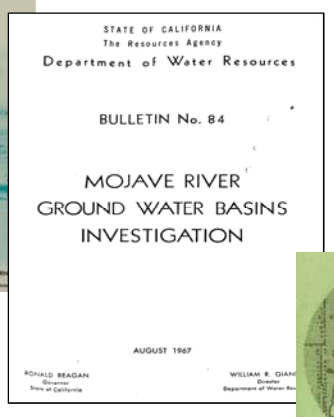
Year

1960

1965

DWR, 1964, Bulletin No. 106-1:
Groundwater Occurrence and Quality Lahontan Region.

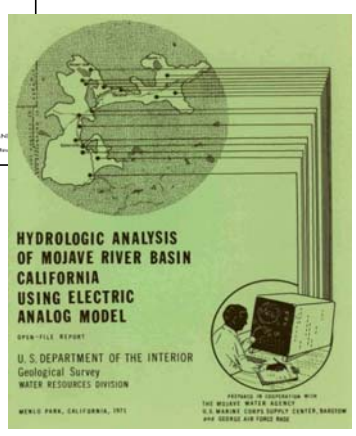




DWR, 1967, Bulletin No. 84: Mojave River Ground Water Basins Investigation.

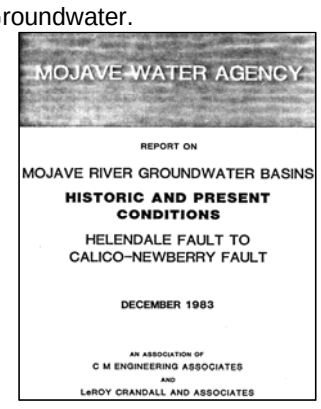
1970

USGS, Hardt, 1971, Hydrologic Analysis of Mojave River Basin, CA,
Using Electric Analog Model. Open-File Report.



1975

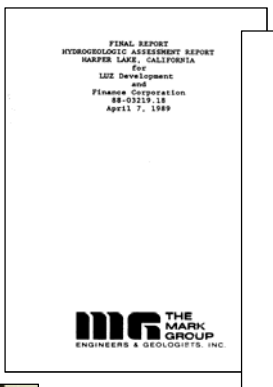
DWR, 1975, Bulletin No. 118-75: California's Groundwater.



1980

MWA, 1983, Historic and Present Conditions,
Helendale to Calico-Newberry Fault.

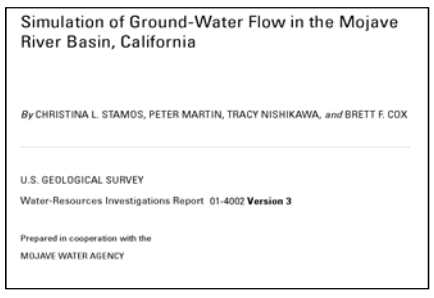
1985

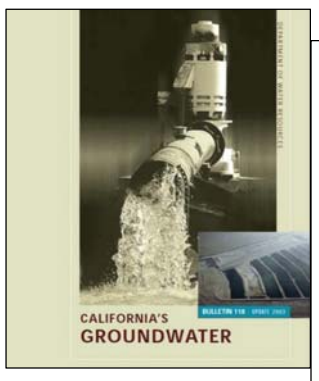


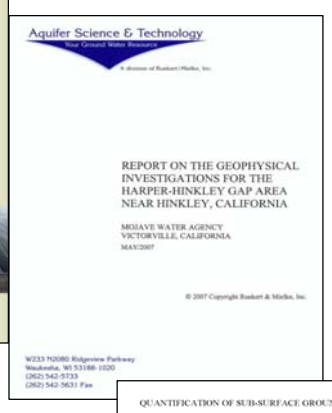
The Mark Group, 1989, Final Report Hydrogeologic Assessment Report, LUZ SEGS, Harper Lake, CA.
The Mark Group, 1989, Preliminary Report, Aquifer Analysis, LUZ SEGS, Harper Lake, CA.

1990

1995







2000

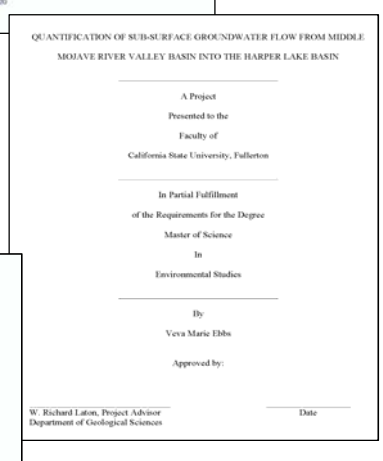
USGS, Stamos et al., 2001,
Simulation of Groundwater-Flow in the Mojave River Basin, CA. WRIR 01-4002.

DWR, 2003, Bulletin No. 118: California's Groundwater, update 2003.

2005

AS&T, 2007, Report on the Geophysical Investigations for the Harper-Hinkley Gap Area near Hinkley, CA.

CSUF, Ebbs, 2007 Quantification of Sub-Surface Groundwater Flow
from Middle Mojave River Valley Basin into Harper Lake Basin.

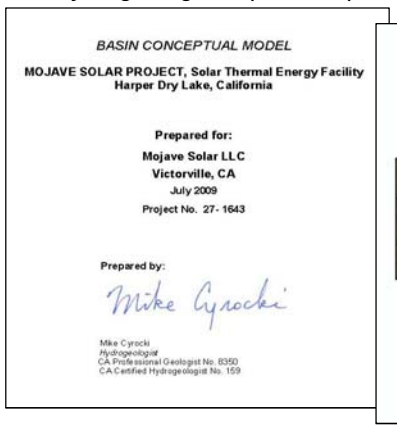


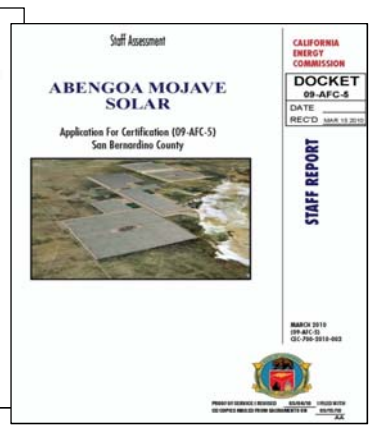
2010

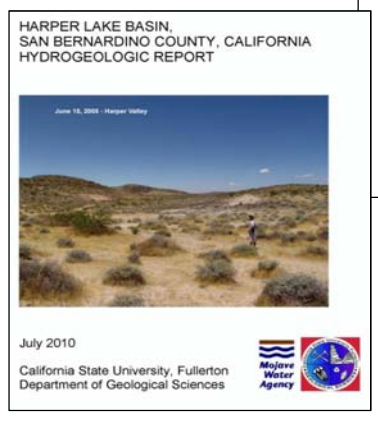
Layne GeoSciences, 2009, Basin Conceptual Model, Mojave Solar Project, Solar Thermal Energy Facility.

CEC, 2010, Staff Report on Abengoa Mojave Solar Project, Application for Certification, March 15.

CSUF, Laton, 2010, Final Hydrogeologic Report: Harper Lake Basin.







Key Technical Reports of Riparian Vegetation and Water Demand

Year

1960

1965

DWR, 1967, Bulletin No. 84: Mojave River Ground Water Basins Investigation.

1970

USGS, Hardt, 1971, Hydrologic Analysis of Mojave River Basin, CA, Using Electric Analog Model. Open-File Report.

1975

1980

MWA, 1982, Historic and Present Conditions, Newberry Groundwater Basin, December.

1985

Bilhorn, 1989, A Hydrology Study and Water Use Plan for The Camp Cady Wildlife Area, San Bernardino County, CA, Prepared for CDFG (with revisions August 3, 2001).

1990

1995

USGS, Lines and Bilhorn, 1996, Riparian Vegetation and Its Water Use During 1995 along the Mojave River, Southern California. USGS WRIR 96-4241. Prepared in cooperation with the MWA and CDFG.

USGS, Lines, 1999, Health and Native Riparian Vegetation and its Relationship to Hydrologic Conditions along the Mojave River, Southern California. WRIR 99-4112.

2000

USGS, Stamos et al., 2001, Simulation of Groundwater-Flow in the Mojave River Basin, CA. WRIR 01-4002.

CDFG, 2004, Habitat Water Supply Management Plan for the Adjudicated Area of the Mojave River Basin, San Bernardino County.

2005

UC Davis Wildlife Health Center, 2007, California's Wildlife Action Plan, prepared for CDFG.

2010

USBR and USU, 2011, Evapotranspiration Water Use Analysis of Salt Cedar and Other Vegetation in the Mojave River Floodplain, 2007 and 2010. August.

Todd Engineers, 2013, Hydrogeologic Investigation of Camp Cady Ranch, Newberry Springs, CA. Prepared for CDFG.