

## DOCKETED

<b>Docket Number:</b>	09-AFC-06C
<b>Project Title:</b>	Blythe Solar Power Project - Compliance
<b>TN #:</b>	201032
<b>Document Title:</b>	MWD Comments: MWD comment letter on Notice of Intent to prepare an EIS on the amended Blythe Solar Project 30 Sep 2013
<b>Description:</b>	N/A
<b>Filer:</b>	System
<b>Organization:</b>	Metropolitan Water District of Southern California
<b>Submitter Role:</b>	Public Agency
<b>Submission Date:</b>	10/24/2013 6:26:05 AM
<b>Docketed Date:</b>	10/24/2013

*Comment Received From: Michael Melanson*

*Submitted On: 10/24/2013*

*Docket Number: 09-AFC-06C*

**MWD comment letter on Notice of Intent to prepare an EIS on the amended Blythe Solar Project 30 Sep 2013**

*Additional submitted attachment is included below.*



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Office of the General Manager

**September 30, 2013**

**Via Electronic and U.S. Mail**

Mr. Frank McMenimen  
Project Manager  
Palm Springs South Coast Field Office  
Bureau of Land Management  
1201 Bird Center Drive  
Palm Springs, CA 92262

Dear Mr. McMenimen:

Notice of Intent to Prepare an Environmental Impact Statement Considering Proposed Amendments to the Blythe Solar Power Project (BSPP) Right-of-Way (ROW) Grant (CACA- 48811)

The Metropolitan Water District of Southern California (Metropolitan) has reviewed the Notice of Intent for the amendments to the Blythe Solar Power Project (BSPP) right-of-way grant as referenced above. Metropolitan is pleased to submit comments for consideration by Bureau of Land Management (BLM) in the preparation of the Draft Environmental Impact Statement (DEIS). In sum, Metropolitan provides these comments to ensure that any potential impacts on its facilities in the vicinity of the Project and on the Colorado River water resources are adequately addressed.

Metropolitan previously reviewed both the DEIS and Final Environmental Impact Statement (FEIS) for the Blythe Solar Power Project and California Desert Conservation Area Plan Amendment and submitted comments on both of these documents. Those comment letters are enclosed to this letter for your reference and convenience.

### **Background**

Metropolitan is a public agency and regional water wholesaler. It is comprised of 26 member public agencies serving more than 19 million people in six counties in Southern California. One of Metropolitan's major water supplies is the Colorado River via Metropolitan's Colorado River Aqueduct (CRA). Metropolitan holds an entitlement to water from the Colorado River. The CRA consists of tunnels, open canals and buried pipelines. CRA-related facilities also include above and below ground reservoirs and aquifers, access and patrol roads, communication facilities, and residential housing sites. The CRA, which can deliver up to 1.2 million acre-feet of water annually, extends 242 miles from the Colorado River, through the Mojave Desert and into Lake Mathews. Metropolitan has five pumping plants located along the CRA, which consume approximately 2,400 gigawatt-hours of energy when the CRA is operating at full capacity.

Concurrent with its construction of the CRA in the mid-1930s, Metropolitan constructed 305 miles of 230 kV transmission lines that run from the Mead Substation in Southern Nevada, head south, then branch east to Parker, California, and then west along Metropolitan's CRA. Metropolitan's CRA transmission line easements lie on federally-owned land, managed by BLM. The transmission lines were built for the sole and exclusive purpose of supplying power from the Hoover and Parker projects to the five pumping plants along the CRA.

Metropolitan's ownership and operation of the CRA and its 230 kV transmission system is vital to its mission to provide Metropolitan's 5,200 square mile service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

### **Project Understanding**

Pursuant to the Project Description in the Notice of Intent, the new owners of the BSPP, NextEra Blythe Solar Energy Center LLC (NBSEC), propose to modify the solar technology and reduce the size of the project within the previously approved BSPP footprint. The NBSEC is proposing to construct, operate, maintain, and decommission the BSPP using solar photovoltaic (PV) technology with a capacity of 485 MWs on 4,138 acres of BLM-administered public land, as opposed to the originally approved 1,000 MWs on 6,831 acres.

The Project site is located approximately two miles north of U.S. Interstate-10 (I-10) and eight miles west of the City of Blythe in an unincorporated area of Riverside County, California. The Blythe Airport is about one mile south of the site

### **Land Use Issues: Potential Impacts on Metropolitan Facilities**

Although Metropolitan has not yet identified any direct impacts, the Project is in the general vicinity of Metropolitan facilities, perhaps as close as 8 miles. As described above, Metropolitan currently has a significant number of facilities, real estate interests, and fee-owned rights-of-way, easements, and other properties (Facilities) located on or near BLM-managed land in southern California that are part of our water distribution system. Metropolitan is concerned with potential direct or indirect impacts that may result from the construction and operation of any proposed solar energy project on or near our Facilities. In order to avoid potential impacts, Metropolitan requests that the DEIS include an assessment of potential impacts to Metropolitan's Facilities with proposed measures to avoid or mitigate significant adverse effects.

Metropolitan is also concerned that locating solar projects near or across its electrical transmission system could have an adverse impact on Metropolitan's electric transmission-related operations and Facilities. From a reliability and safety aspect, Metropolitan is concerned with development of any proposed projects and supporting transmission systems that would cross or come in close proximity with Metropolitan's transmission system. Metropolitan requests that the DEIS analyze and assess any potential impacts to Metropolitan's transmission system.

### **Water Resources: Potential Impacts on Colorado River and Local Water Supplies**

Metropolitan is also concerned about the Project's potential direct and cumulative impacts on water supplies, specifically potential impacts on Colorado River and local groundwater supplies. As noted above, Metropolitan holds an entitlement to imported water supplies from the Colorado River. Water from the Colorado River is allocated pursuant to federal law and is managed by the Department of the Interior, Bureau of Reclamation (USBR). In order to lawfully use Colorado River water, a party must have an entitlement to do so. *See Boulder Canyon Project Act of 1928, 43 U.S.C. §§ 617, et seq.; Arizona v. California, 547 U.S. 150 (2006).*

The previously approved BSPP project proposed to use approximately 4,100 acre-feet (af) of water during construction and 600 acre-feet per year (afy) for long-term operations, using groundwater from a groundwater basin that is hydro-geologically connected to the Colorado River, within an area referred to as the "accounting surface." The extent of accounting surface area for the Colorado River was determined by the U.S. Geological Survey (USGS) and USBR as part of an on-going rule-making process. *See Notice of Proposed Rule Regulating the Use of the Lower Colorado River Without an Entitlement, 73 Fed. Reg. 40916 (July 16, 2008); USGS Scientific Investigation Report No. 2008-5113.* To the extent the Project uses Colorado River water, it must have a documented right to do so.

Entities in California are using California's full apportionment of Colorado River water, meaning that all water is already contracted and no new water entitlements are available in California. Thus, Proponents would have to obtain water from the existing junior priority holder, Metropolitan, which has the authority to sell water for power plant use. Metropolitan is willing to discuss the exchange of a portion of its water entitlement subject to any required approvals by Metropolitan's Board of Directors and so long as the Proponents agree to provide a replacement supply through an agreement with Metropolitan.

Metropolitan requests that BLM also assess the potential cumulative impacts of the use of the scarce Colorado River and local groundwater supplies in light of other pending renewable energy projects within the Colorado River Basin and the local groundwater regions. Metropolitan requests that the DEIS and staff assessment address the Proponent's water supply and any potential direct or cumulative impacts from this use.

We appreciate the opportunity to provide input to your planning process and we look forward to receiving and reviewing the DEIS on the revised BSPP project. If we can be of further assistance, please contact Mr. Michael Melanson at (916) 650-2648.

Mr. Frank McMenimen

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September 30, 2013

Very truly yours,



Deirdre M. West

Manager, Environmental Planning Team

MM/sdf

Blythe \_ Solar \_ Power \_ Project 9\_30\_13

Enclosures (2) Comment Letter on Blythe Solar Power Plant DEIS dated June 15, 2010  
Comment Letter on Blythe Solar Power Plant FEIS dated September 19, 2010

cc w/enclosures: Ms. Tanya Trujillo  
Executive Director  
Colorado River Board of California  
770 Fairmont Avenue, Suite 100  
Glendale, California 91203-1068



**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

**JUNE 15, 2010**

**Via Electronic & U.S. Mail**

Alan Solomon  
Siting, Transmission and Environmental  
Protection Division  
California Energy Commission  
1516 Ninth Street, MS-15  
Sacramento, CA 95814

Allison Shaffer  
Project Manager  
Palm Springs South Coast Field Office  
Bureau of Land Management  
1201 Bird Center Drive  
Palm Springs, California 92262

To Whom it May Concern:

Notice of Availability of the Draft Environmental  
Impact Statement and Revised Staff Assessment for the Chevron Energy Solutions/Solar  
Millennium, Blythe Solar Power Project and Possible California Desert Conservation  
Area Plan Amendment, CEC Docket No. 09-AFC-6, BLM Docket No. CACA 48811

The Metropolitan Water District of Southern California (Metropolitan) reviewed the Revised Staff Assessment and Draft Environmental Impact Statement (collectively, "DEIS") for the Blythe Solar Power Project and Possible California Desert Conservation Area Plan Amendment (Project). The U.S. Bureau of Land Management (BLM) is the lead agency under the National Environmental Policy Act (NEPA) for the DEIS and the California Energy Commission (CEC) is the lead agency (for licensing thermal power plants 50 megawatts and larger) under the California Environmental Quality Act (CEQA) and has a certified regulatory program under CEQA. Under its certified program, CEC is exempt from having to prepare an environmental impact report. Its certified program, however, requires environmental analysis of the project or a "staff assessment," including an analysis of alternatives and mitigation measures to minimize any significant adverse effect the project may have on the environment.

Metropolitan is pleased to submit comments for consideration by BLM and CEC during the public comment period for the DEIS and staff assessment.<sup>1</sup> In sum, Metropolitan provides these comments to ensure that any potential impacts on its facilities in the vicinity of the Project and on the Colorado River water resources are adequately addressed.

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<sup>1</sup> Comments on the DEIS and Revised Staff Assessment are due June 16, 2010 per the Federal Register notice. 75 Fed. Reg. 13275 (March 19, 2010). This comment deadline applies to the CEC's Revised Staff Assessment issued June 4, 2010 regardless of whether it is finalized separately from BLM's DEIS as the relevant comment periods may not be reduced or altered retroactively.

## **Background**

Metropolitan is a public agency and regional water wholesaler. It is comprised of 26 member public agencies serving more than 19 million people in six counties in Southern California. One of Metropolitan's major water supplies is the Colorado River via Metropolitan's Colorado River Aqueduct (CRA). Metropolitan holds an entitlement to water from the Colorado River. The CRA consists of tunnels, open canals and buried pipelines. CRA-related facilities also include above and below ground reservoirs and aquifers, access and patrol roads, communication facilities, and residential housing sites. The CRA, which can deliver up to 1.2 million acre-feet of water annually, extends 242 miles from the Colorado River, through the Mojave Desert and into Lake Mathews. Metropolitan has five pumping plants located along the CRA, which consume approximately 2,400 gigawatt-hours of energy when the CRA is operating at full capacity.

Concurrent with its construction of the CRA in the mid-1930s, Metropolitan constructed 305 miles of 230 kV transmission lines that run from the Mead Substation in Southern Nevada, head south, then branch east to Parker, California, and then west along Metropolitan's CRA. Metropolitan's CRA transmission line easements lie on federally-owned land, managed by BLM. The transmission lines were built for the sole and exclusive purpose of supplying power from the Hoover and Parker projects to the five pumping plants along the CRA.

Metropolitan's ownership and operation of the CRA and its 230 kV transmission system is vital to its mission to provide Metropolitan's 5,200 square mile service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

## **Project Understanding**

Pursuant to the Project Description in the DEIS, Solar Millennium, LLC and Chevron Energy Solutions, the joint developers of this project (collectively, "Proponents"), propose to construct, own, and operate the Blythe Solar Power Project. The project is a concentrated solar thermal electric generating facility with four adjacent, independent, and identical solar plants of 250 megawatt (MW) nominal capacity each for a total capacity of 1,000 MW nominal.

The Project will utilize solar parabolic trough technology to generate electricity. With this technology, arrays of parabolic mirrors collect heat energy from the sun and refocus the radiation on a receiver tube located at the focal point of the parabola. A heat transfer fluid (HTF) is heated to high temperature (750°F) as it circulates through the receiver tubes. The heated HTF is then piped through a series of heat exchangers where it releases its stored heat to generate high pressure steam. The steam is then fed to a traditional steam turbine generator where electricity is produced.

The Project water needs would be met by use of groundwater pumped from one of two wells on the plant site. Water for domestic uses by project employees would also be provided by onsite groundwater treated to potable water standards. During construction, the Project proponent anticipates using up to 4,100 acre-feet of water over the course of 60 months. Following



construction and for long-term operations, the average total annual water usage for all four units combined is estimated to be about 600 acre-feet per year (afy).

The Project site is located approximately two miles north of U.S. Interstate-10 (I-10) and eight miles west of the City of Blythe in an unincorporated area of Riverside County, California. The Blythe Airport is about one mile south of the site. The applicants have applied for a right-of-way grant from BLM for about 9,400 acres of flat desert terrain. The total area that will be disturbed by Project construction and operation will be about 7,030 acres. The area inside the project's security fence, within which all Project facilities will be located, will occupy approximately 5,950 acres.

### **Land Use Issues: Potential Impacts on Metropolitan Facilities**

Although Metropolitan has not yet identified any direct impacts, the Project is in the general vicinity of Metropolitan facilities, perhaps as close as 8 miles. As described above, Metropolitan currently has a significant number of facilities, real estate interests, and fee-owned rights-of-way, easements, and other properties (Facilities) located on or near BLM-managed land in southern California that are part of our water distribution system. Metropolitan is concerned with potential direct or indirect impacts that may result from the construction and operation of any proposed solar energy project on or near our Facilities. In order to avoid potential impacts, Metropolitan requests that the final EIS and staff assessment include an assessment of potential impacts to Metropolitan's Facilities with proposed measures to avoid or mitigate significant adverse effects.

Metropolitan is also concerned that locating solar projects near or across its electrical transmission system could have an adverse impact on Metropolitan's electric transmission-related operations and Facilities. From a reliability and safety aspect, Metropolitan is concerned with development of any proposed projects and supporting transmission systems that would cross or come in close proximity with Metropolitan's transmission system. Metropolitan requests that the final EIS and staff assessment analyze and assess any potential impacts to Metropolitan's transmission system.

### **Water Resources: Potential Impacts on Colorado River and Local Water Supplies**

Metropolitan is also concerned about the Project's potential direct and cumulative impacts on water supplies, specifically potential impacts on Colorado River and local groundwater supplies. As noted above, Metropolitan holds an entitlement to imported water supplies from the Colorado River. Water from the Colorado River is allocated pursuant to federal law and is managed by the Department of the Interior, Bureau of Reclamation (USBR). In order to lawfully use Colorado River water, a party must have an entitlement to do so. *See* Boulder Canyon Project Act of 1928, 43 U.S.C. §§ 617, et seq.; *Arizona v. California*, 547 U.S. 150 (2006).

As noted above, the Project proposes to use approximately 4,100 af of water during construction and 600 afy for long-term operations, using groundwater from a groundwater basin that is hydrogeologically connected to the Colorado River, within an area referred to as the "accounting surface." The extent of accounting surface area for the Colorado River was determined by the

Alan Solomon, Allison Shaffer  
June 15, 2010  
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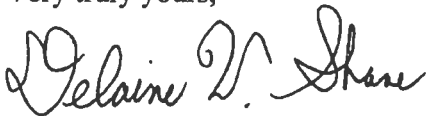
U.S. Geological Survey (USGS) and USBR as part of an on-going rule-making process. *See* Notice of Proposed Rule Regulating the Use of the Lower Colorado River Without an Entitlement, 73 Fed. Reg. 40916 (July 16, 2008); USGS Scientific Investigation Report No. 2008-5113. To the extent the Project uses Colorado River water, it must have a documented right to do so.

Entities in California are using California's full apportionment of Colorado River water, meaning that all water is already contracted and no new water entitlements are available in California. In addition, the California contractors have agreed in the 1931 Seven Party Agreement to prioritize the delivery of California's Colorado River water among themselves. Under this priority agreement, proponents would have to obtain water from the existing junior priority holder, Metropolitan, which has the authority to sell water for power plant use. Metropolitan is willing to discuss the exchange of a portion of its water entitlement subject to any required approvals by Metropolitan's Board of Directors and so long as the Proponents agree to provide a replacement supply through an agreement with Metropolitan. As required by mitigation measures SOIL&WATER-2 and SOIL&WATER-16 in the Revised Staff Assessment, Proponents must fully address the impacts on Colorado River water resources and provide full mitigation for such impacts, including replacement of supply.

Additionally, CEC should assess the potential cumulative impacts of the use of the scarce Colorado River and local groundwater supplies in light of other pending renewable energy projects within the Colorado River Basin and the local groundwater regions. Metropolitan requests that the final EIS and staff assessment address the Proponent's water supply and any potential direct or cumulative impacts from this use.

We appreciate the opportunity to provide input to your planning process and we look forward to receiving future environmental and related documentation on this project. If we can be of further assistance, please contact Dr. Debbie Drezner at (213) 217-5687.

Very truly yours,



Delaine W. Shane  
Manager, Environmental Planning Team

DSD/dsd

(Public Folders/EPT/Letters/EPT Final Letters PDF/2010/15-JUN-10C.doc)

Enclosures: Map

BLM Furnished ROW  
MWD Fee Property

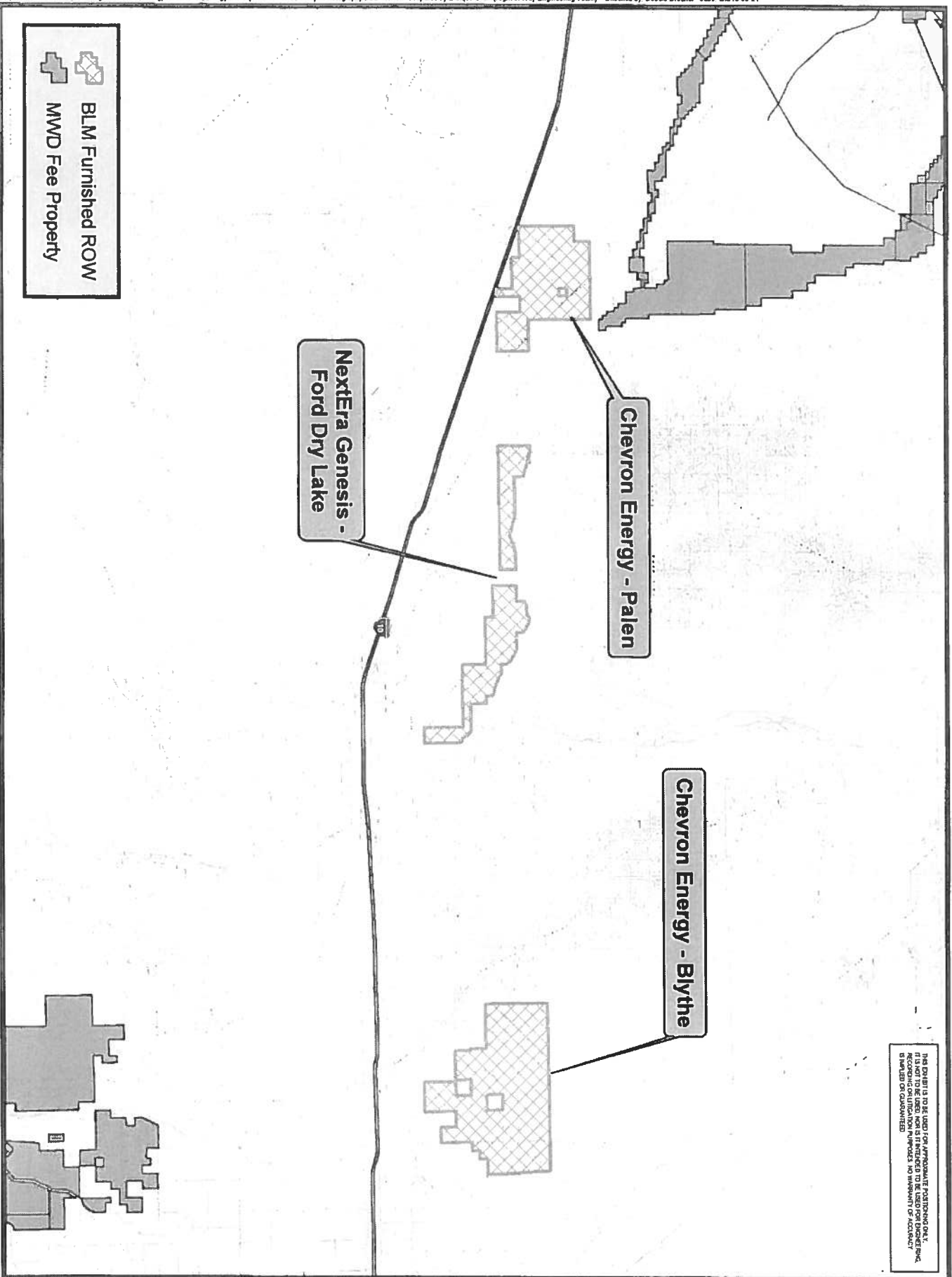
NextEra Genesis -  
Ford Dry Lake

Chevron Energy - Palen

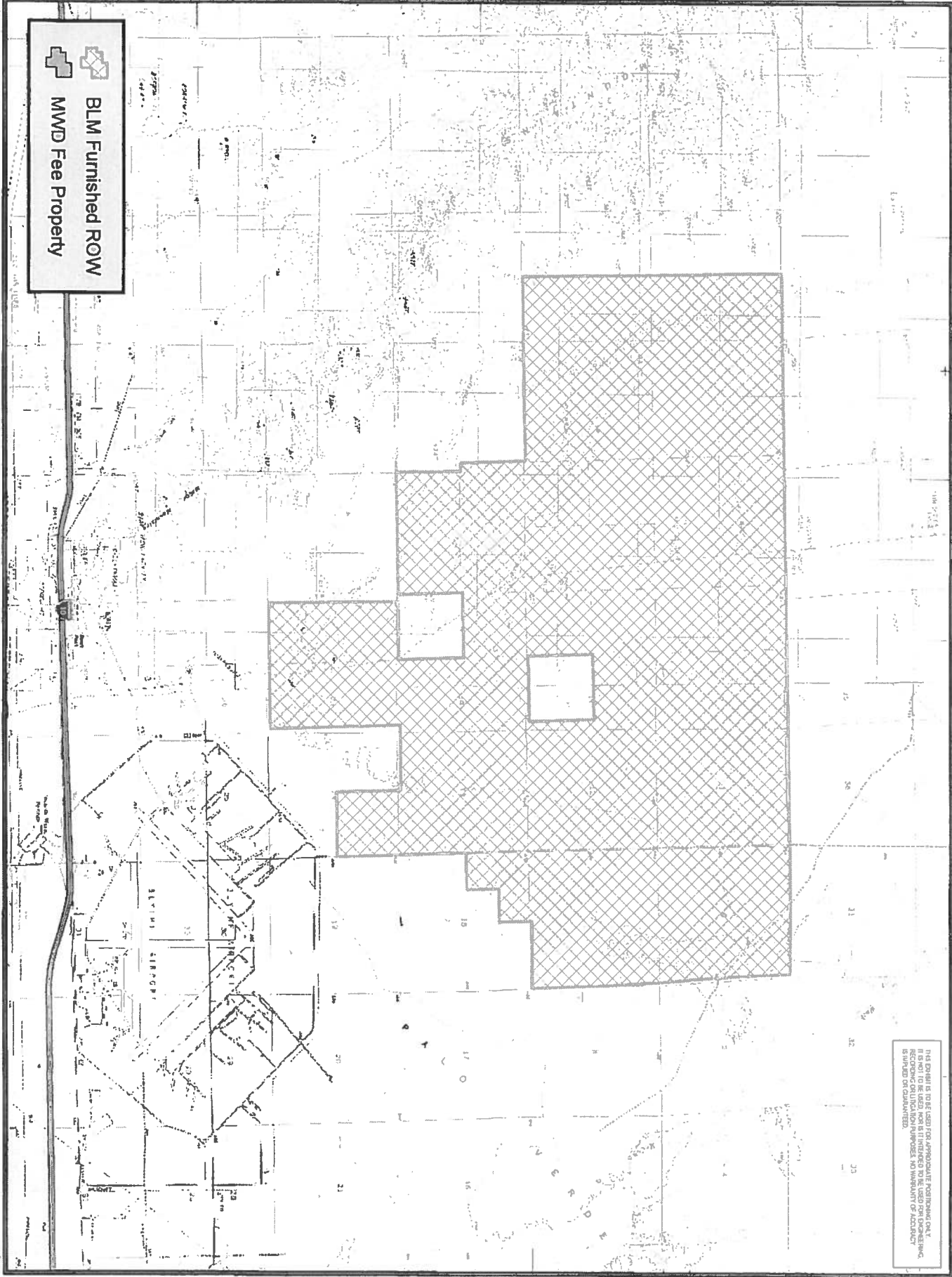
Chevron Energy - Blythe

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Renewable Energy Projects  
MWD Right of Way



 BLM Furnished ROW  
 MWD Fee Property



THIS DRAWING IS TO BE USED FOR APPROXIMATE ESTIMATING ONLY. IT IS NOT TO BE USED FOR CONTRACTING OR FOR ANY OTHER PURPOSES. NO WARRANTY OF ACCURACY IS MADE OR GUARANTEED.

**Renewable Energy Projects**  
Chevron Energy - Blythe





THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

September 19, 2010

**Via Electronic & U.S. Mail**

Alan Solomon  
Siting, Transmission and Environmental  
Protection Division  
California Energy Commission  
1516 Ninth Street, MS-15  
Sacramento, CA 95814

Allison Shaffer  
Project Manager  
Palm Springs South Coast Field Office  
Bureau of Land Management  
1201 Bird Center Drive  
Palm Springs, California 92262

To Whom it May Concern:

Metropolitan's Comments on Plan Amendment/Final Environmental Impact Statement for the Blythe Solar Power Project, DOI Control No. FES 10-41 & CEC Docket No. 09-AFC-6

The Metropolitan Water District of Southern California (Metropolitan) reviewed the Plan Amendment/Final Environmental Impact Statement for the Blythe Solar Power Project (collectively, "FEIS").

Metropolitan submitted comments on the draft EIS for the Blythe Solar Power Project (Project) on June 15, 2010 that are attached hereto and incorporated by reference. In sum, as a contractor receiving delivery of Colorado River water, Metropolitan remains concerned about the Project's potential direct and cumulative impacts on water supplies, specifically potential impacts on Colorado River and local groundwater supplies.

In reviewing the mitigation measures associated with the Project's use of groundwater as it relates to Metropolitan's Colorado River supplies, Metropolitan noted numerous references to mitigation measures which were confusing and in some cases, inaccurate. For instance, in FEIS Section 4.19, mitigation measures are labeled as "WATER," whereas in Appendix G and in the Bureau of Land Management's (BLM's) response to our prior comments (response), mitigation measures are labeled "SOIL&WATER." Therefore, in reviewing Section 4.19, Metropolitan is unsure whether the "WATER" mitigation measures refer to the same "SOIL&WATER" mitigation measures in Appendix G. Furthermore, it is not clear whether the specific mitigation measures referenced in BLM's response are accurately represented in Appendix G. For instance, on page 5-54 of the response, mitigation measure SOIL&WATER-17 is referenced, however, this mitigation measure is not included in Appendix G. As a result, Metropolitan is precluded

Alan Solomon and Allison Shaffer

September 19, 2010

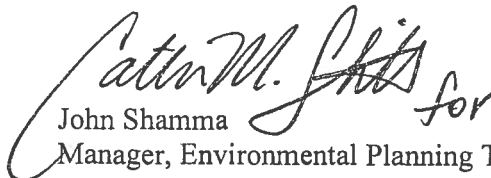
Page 2

from a complete and accurate review of the final mitigation measures for direct and cumulative impacts to Colorado River and local groundwater supplies.

In Mitigation Measures SOIL&WATER-1 through SOIL&WATER-18, the FEIS addresses potential impacts to water resources. Section 4.19.5 more specifically states that WATER-1 and WATER-15, require that the applicant eliminate any impacts to the Colorado River supplies by "ensur[ing] that either (1) potential effects on the Colorado River hydrology are avoided entirely, or (2) the applicant applies for and receives an allocation of water from the Colorado River." In Appendix G, SOIL&WATER 2 requires submittal of a Water Supply Plan to the Compliance Project Manager (CPM) and SOIL&WATER 16 provides an accounting method which would require additional investigation and calculation of the potential for groundwater pumping on site to affect the Colorado River. SOIL&WATER-16 requires submittal of a report detailing the modeling effort to estimate, among other things, the amount of subsurface water flowing from the surface water due to project pumping. Metropolitan requests to be included, along with the Colorado River Board of California, in BLM's process of reviewing all groundwater and hydrogeological monitoring and reporting provided by the project owner related to local groundwater and Colorado River resources prior to BLM's approval of the reports.

We appreciate the opportunity to provide input to your planning process. If we can be of further assistance, please contact Dr. Debbie Drezner at (213) 217-5687.

Very truly yours,

  
John Shamma  
Manager, Environmental Planning Team

DSD/cms

Attachment: Comment Letter on Blythe Solar DEIS dated June 15, 2010

cc: Gerald R. Zimmerman, Executive Director  
Colorado River Board of California  
770 Fairmont Avenue, Suite 100  
Glendale, California 91203-1068



**MWD**  
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

**JUNE 15, 2010**

**Via Electronic & U.S. Mail**

Alan Solomon  
Siting, Transmission and Environmental  
Protection Division  
California Energy Commission  
1516 Ninth Street, MS-15  
Sacramento, CA 95814

Allison Shaffer  
Project Manager  
Palm Springs South Coast Field Office  
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#### **Water Resources: Potential Impacts on Colorado River and Local Water Supplies**

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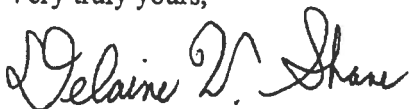
U.S. Geological Survey (USGS) and USBR as part of an on-going rule-making process. *See* Notice of Proposed Rule Regulating the Use of the Lower Colorado River Without an Entitlement, 73 Fed. Reg. 40916 (July 16, 2008); USGS Scientific Investigation Report No. 2008-5113. To the extent the Project uses Colorado River water, it must have a documented right to do so.

Entities in California are using California's full apportionment of Colorado River water, meaning that all water is already contracted and no new water entitlements are available in California. In addition, the California contractors have agreed in the 1931 Seven Party Agreement to prioritize the delivery of California's Colorado River water among themselves. Under this priority agreement, proponents would have to obtain water from the existing junior priority holder, Metropolitan, which has the authority to sell water for power plant use. Metropolitan is willing to discuss the exchange of a portion of its water entitlement subject to any required approvals by Metropolitan's Board of Directors and so long as the Proponents agree to provide a replacement supply through an agreement with Metropolitan. As required by mitigation measures SOIL&WATER-2 and SOIL&WATER-16 in the Revised Staff Assessment, Proponents must fully address the impacts on Colorado River water resources and provide full mitigation for such impacts, including replacement of supply.

Additionally, CEC should assess the potential cumulative impacts of the use of the scarce Colorado River and local groundwater supplies in light of other pending renewable energy projects within the Colorado River Basin and the local groundwater regions. Metropolitan requests that the final EIS and staff assessment address the Proponent's water supply and any potential direct or cumulative impacts from this use.

We appreciate the opportunity to provide input to your planning process and we look forward to receiving future environmental and related documentation on this project. If we can be of further assistance, please contact Dr. Debbie Drezner at (213) 217-5687.

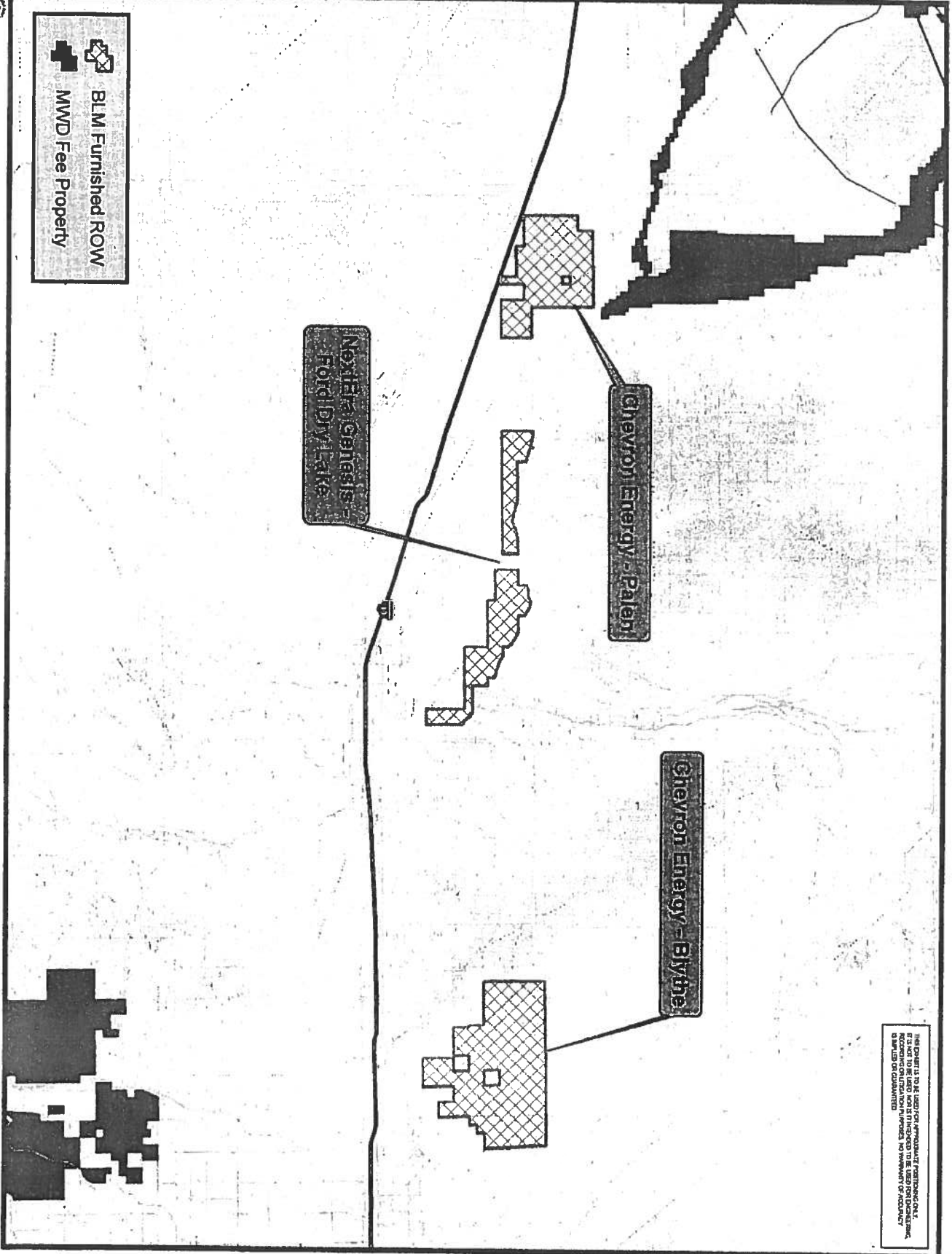
Very truly yours,



Delaine W. Shane  
Manager, Environmental Planning Team

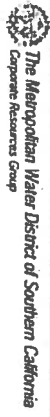
DSD/dsd  
(Public Folders/EPT/Letters/EPT Final Letters PDF/2010/15-JUN-10C.doc)  
Enclosures: Map

 BLM Furnished ROW  
 MWD Fee Property

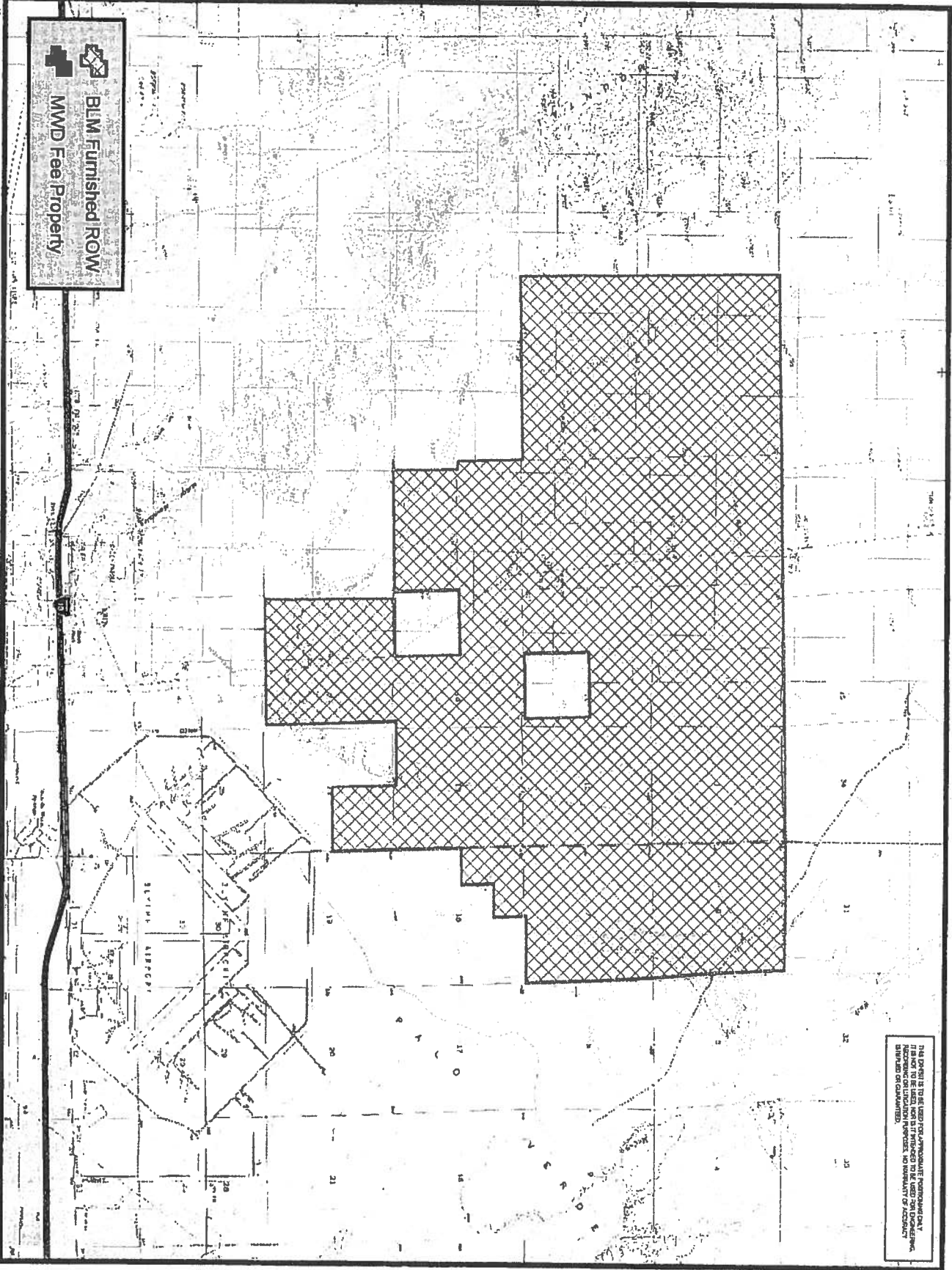


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BLM Furnished ROW  
  
MWD Fee Property



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# Renewable Energy Projects

Chevron Energy - Blythe

