

AMES/RECHE GROUNDWATER STORAGE 12 MAY -9 PM 3: 25 AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

MONITORING PROGRAM PLAN

A. Recitals

- i Bighorn Desert View Water Agency is a public entity organized and operating pursuant to the provisions of the Bighorn Desert View Water Agency Law, California Water Code Appendix, Sections 112-1 et. seq.
- ii Hi-Desert Water District is a County Water District organized and operating pursuant to the provisions of the County Water District Law, California Water Code Sections 30,000 et. seq.
- iii Mojave Water Agency is a public entity organized and operating pursuant to the provisions of the Mojave Water Agency Law, California Water Code <u>Appendix</u> Sections 97-1 *et. seq.*
- iv County of San Bernardino Service Area No. 70 W-1 Landers is a public entity governed by the San Bernardino County Board of Supervisors pursuant to the provisions of California Government Code Sections 25210 et. seq.
- v County of San Bernardino Service Area No. 70 W-4 Pioneertown is a public entity governed by the San Bernardino County Board of Supervisors pursuant to the provisions of California Government Code Sections 25210 et. seq.
- vi The Parties have formed a management area for purposes of this Agreement that is referred to herein as "the Basin." The boundaries of the Basin are generally described in Exhibit A and depicted on Exhibit B hereto. In support of this Agreement are the Ames/Reche Spreading Grounds and Recovery Program and Management Agreement and the BDV Ames/Reche Groundwater Management Plan which provide a basis for long-term management of local groundwater resources.
- vii The purposes of this Agreement are to establish the monitoring program and participant responsibility for the monitoring program which is a mechanism for the management, water supply reliability and protection of the Basin.

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B. Agreement

MWA shall assist with administration of a monitoring program to ensure protection of the Basin as a water supply for the Parties hereto and their end users. The monitoring program will utilize the wells identified in Exhibit C hereto at a minimum. At MWA's direction, monitoring points may be added or removed over time, as practical and necessary, from the program to provide a more accurate depiction of the state of the Basin as to the maintenance of supplies and water quality. Any changes to the monitoring program shall be approved in writing by the other Parties' general managers with the consent of all parties. MWA's staff and the participants will take groundwater level measurements and samples for quality testing on a schedule and in accordance with protocols reasonably satisfactory to and approved in writing by the other Parties' general managers herein.

Production Wells

Production wells located within the management area are listed in the following table and shown on Exhibit C.

Groundwater Production: BDV, W-1, W-4 and Hi-Desert agree to provide to MWA each year no later than July 10, the meter readings, electrical records and any available data reflecting the production of water from the Basin from all of the entities' wells for the immediately prior 12 months (July 1 - June 30).

<u>Water Levels</u>: The well owner shall monitor water levels in these wells on a quarterly basis or beter and turn all water level records over to the MWA annually on or before July 10.

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<u>Water Quality Sampling:</u> The owner shall collect and have analyzed Title 22 water quality samples from these active wells in accordance with their own California Department of Public Health (CDPH) requirements. Production wells listed below shall be sampled for Total dissolved Solids (TDS), Gross Alpha and Uranium by the respective well owner annually for the first 5-years of the program initiating on or before September 1, 2012.

SWN	Description
01N05E02A01	HDWD #21
01N05E19B01	CSA 70 W-4 Well 0
01N05E19B04	CSA 70 W-4 Well 7
01N05E19B06	CSA 70 W-4 Well 8
01N05E20D01	CSA 70 W-4 Well 2
01N05E20D02	CSA 70 W-4 Well 1
01N05E30C01	CSA 70 W-4 Well 4
01N05E30D02	CSA 70 W-4 Well 5
01N06E17A01	HDWD #10E
02N05E12B01	BDVWA #6
02N05E12B02	BDVWA #7
02N05E12C02	BDVWA #9
02N05E22J01	BDVWA #8
02N05E24H01	HDWD #24
02N05E27K02	BDVWA #2
02N05E27K03	BDVWA #3
02N05E27R01	BDVWA #4
02N05E36C01	HDWD #20
02N06E07Q03	CSA 70 W-1, Well #3
02N06E18B01	CSA 70 W-1, Well #1
02N06E18B02	CSA 70 W-1, Well #2
02N06E30N01	HDWD #6

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Monitoring Wells

Monitoring wells located within the management area are listed in the following table and shown on Exhibit C. The MWA shall monitor water levels in these wells on a semiannual basis or better. The MWA shall collect and have analyzed water quality samples from 02N05E24H02 (BDVMW #2) and 02N05E24P01 (BDVMW #1) annually. Analyses will include general minerals, gross alpha, uranium and inorganic constituents. Water level measurements and water quality data will be posted to the USGS National Water Information System (NWIS) website.

SWN	Description
01N05E02N01	NWIS water level records available from
	1952 - 2011.
01N05E11C02	NWIS water level records available from
	1998 - 2010.
02N05E01G01	Gubler Farm Well
02N05E12N01	NWIS water level records available from
	1971 - 2010.
02N05E24H02	BDVMW #2
02N05E24P01	BDVMW #1
02N05E27A01	USGS MW #6
02N06E18F01	BH-1
02N06E31D01	NWIS water level records available from
	1971 - 2010.

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Communications: Mailed notices shall be addressed as set forth below, but each Party may change its address by written notice to the Parties.

> To: Hi-Desert Water District

> > 55439 29 Palms Hwy. Yucca Valley, CA 92284

Attention: Ed Muzik, General Manager

To: Bighorn-Desert View Water Agency

622 S. Jemez Trail

Yucca Valley, CA 92284

Attention: Marina West, General Manager

To: County of San Bernardino Special District

County Service Area No. 70

12402 Industrial Blvd., Building D, Suite 6

Victorville, CA 92395

Attention: Jeffrey Rigney, Director Special Districts Department

To: Mojave Water Agency

13846 Conference Center Drive

Apple Valley, CA 92307

Attention: Kirby Brill, General Manager

IN WITNESS WHEREOF, the Parties have entered into this Agreement as of the date stated below opposite the name of each such Party.

BIGHORN-DESERT VIEW WATER AGENCY

Dated: January 10, 2012 By: Marina Dee West, Genera | Manager

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COUNTY OF SAN BERNARDINO SPECIAL DISTRICT COUNTY SERVICE AREA 70 IMPROVEMENT ZONE W-1

Dated:	5/3/2012	By: By: COUNTY OF SAN BERNARDINO SPECIAL DISTRICT COUNTY SERVICE AREA 70 IMPROVEMENT ZONE W-4
Dated:	5/3/2012	By: Peffey O. Rigney, Bree
		HI-DESERT WATER DISTRICT
Dated:	2/20/2012	By: Id Muyik
MOJAVE WATER AGENCY		
Dated:	May 29, 2012	By: By:

EXHIBIT A

The boundary of the Basin management area subject to this Agreement includes portions of the Ames Valley Groundwater Basin (DWR, 2003), portions of its upper watershed, the areas referred to by the United States Geologic Survey as the Pipes and Reche subbasins (as defined by Stamos et al., 2004), along with the area historically defined as Pioneertown (Lewis, 1972). Exhibit B further depicts the geographical boundaries of the basin management area subject to this Agreement.



