

Bighorn-Desert View Water Agency

Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhart, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

Marina D West, PG, General Manager



A Public Agency

Agency Office

622 S. Jemez Trail
Yucca Valley, CA 92284-1440

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www.bdvwa.org

BOARD OF DIRECTORS' REGULAR MEETING AGENDA

Board Meeting Office
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, October 28, 2014 - 6:00 p.m.

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Roll Call**
4. **Approval of Agenda**

Discussion and Action Items - The Board of Directors and Staff will discuss the following items, and the Board will consider taking action, if so inclined.

The Public is invited to comment on any item on the agenda during discussion of that item.

When giving your public comment, please have your information prepared. If you wish to be identified for the record then please state your name. Due to time constraints, each member of the public will be allotted three-minutes to provide their public comment.

5. **Presentation of the Agency's Financial Audit**

Board considers taking the following action(s):

1. Board to receive and file the Agency Financial Audit for Fiscal Year 2013-2014 conducted by Mayer Hoffman McCann P.C..

6. **Hazard Mitigation Plan**

Board considers taking the following action(s):

1. Adopt the Agency's Hazard Mitigation Plan document dated October 28, 2014.

7. Ames/Reche Groundwater Storage and Recovery Program

Board considers taking the following action(s)

1. Receive and file the Stipulated Amended and Restated Judgment for the Ames Valley Water Basin.

8. CSA 70/W-1 Reorganization Update

Discussion Item Only.

9. Consent Items – The following items are expected to be routine and non-controversial and will be acted on by the Board at one time without discussion, unless a member of the Public or member of the Board requests that the item be held for discussion or further action.

- a. Service Order Report, September 2014
- b. Production Report, September 2014
- c. Regular Board Meeting Minutes, September 23, 2014

Recommended Action:

Approve as presented (Items a - c):

10. Matters Removed from Consent Items

11. Public Comment Period

Any person may address the Board on any matter within the Agency's jurisdiction on items not appearing on this agenda.

When giving your public comment, please have your information prepared. If you wish to be identified for the record then please state your name. Due to time constraints, each member of the public will be allotted three-minutes to provide their public comment. State Law prohibits the Board of Directors from discussing or taking action on items not included on the agenda.

12. Verbal Reports - Including Reports on Courses/Conferences/Meetings.

- a. General Manager's Report
- b. Director Reports
- c. President's Report

13. Future Agenda Items

14. Adjournment

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the Bighorn-Desert View Water Agency, 622 S. Jemez Trail, Yucca Valley, CA not less than 72 hours if prior to a Regular meeting, date and time above; or in accordance with California Government Code Section 54956 this agenda has been posted not less than 24 hours if prior to a Special meeting, date and time above.

As a general rule, agenda reports or other written documentation has been prepared or organized with respect to each item of business listed on the agenda.

Copies of these materials and other discloseable public records in connection with an open session agenda item, are also on file with and available for inspection at the Office of the Agency

Secretary, 622 S. Jemez Trail, Yucca Valley, California, during regular business hours, 8:00 A.M. to 4:30 P.M., Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Bighorn-Desert View Water Agency.

Internet: Once uploaded, agenda materials can also be viewed at www.bdvwa.org.

Public Comments: You may wish to submit your comments in writing to assure that you are able to express yourself adequately.

Per Government Code Section 54954.2, any person with a disability who requires a modification or accommodation, including auxiliary aids or services, in order to participate in the meeting, should contact the Board's Secretary at 760-364-2315 during Agency business hours.

AGENDA ITEM # 5

**BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL**

Meeting Date: October 28, 2014

To: Board of Directors

Budgeted: Yes

Budgeted Amount: \$29,916

Cost: \$29,916

Funding Source: Budget Line: 56006

From: Marina D. West

General Counsel Approval: N/A

CEQA Compliance: N/A

Subject: Presentation of the Agency Financial Audit for Fiscal Year 2013-2014 by the Independent CPA Firm of Mayer Hoffman McCann P.C.

SUMMARY

Mr. Ken Al-Imam of Mayer Hoffman McCann P.C. will present the Report on the Audit for the Bighorn-Desert View Water Agency for fiscal year ending June 30, 2014. The Audit Report is attached along with other relevant correspondence.

RECOMMENDATION

That the Board considers taking the following action(s):

Board to receive and file the Agency Financial Audit for fiscal year 2013-2014 conducted by Mayer Hoffman McCann P.C.

BACKGROUND/ANALYSIS

The attached audit report contains all relevant background and analysis.

PRIOR RELEVANT BOARD ACTION(S)

1/24/2012 Motion No. 12-011 Authorize staff to execute the January 2, 2012 Engagement Letter with Mayer Hoffman McCann P.C. outlining the nature, terms and objectives of an engagement to audit the financial statements for the years ended June 30, 2012, 2013 and 2014 at an annual cost of \$29,918; and appoint Mayer Hoffman McCann P.C. as the Agency's Auditor.

2/22/2011 Motion No. 11-008 to retain CPA firm Mayer Hoffman McCann, P.C. as auditor for a third term.

4/28/09 Direct staff to enter into engagement with Mayer Hoffman McCann P.C. for Fiscal Year 2008/2009 Audit at a cost not to exceed \$28,000 in year one with the intent to continue the contract for a three year period with an option to engage for an additional two years.



Mayer Hoffman McCann P.C.
An Independent CPA Firm

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Board of Directors
Bighorn-Desert View Water Agency

Summary of Audit Results

We have audited the financial statements of the business-type activities of Bighorn-Desert View Water Agency (the Agency) for the year ended June 30, 2014. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated November 20, 2012. Professional standards also require that we communicate to you the following information related to our audit.

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the Agency are described in Note 1 to the financial statements. The application of existing policies was not changed during the year. We noted no transactions entered into by the governmental unit during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting the Agency's financial statements were:

- Judgments concerning which capital projects represent ordinary maintenance activities necessary to keep an asset operational for its originally intended useful life versus significant improvement, replacement, and life extending projects that should be capitalized as additions to capital assets.
- Management's estimate of unbilled accounts receivable which is based on prior year actual amounts. We evaluated the key factors and assumptions used to develop this estimate in determining that it is reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the depreciation expense is based on the straight-line method over the assets estimated useful lives

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no difficulties in performing and completing our audit.



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Audit Adjustments

Professional standards require us to accumulate all known and likely adjustments identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. Material audit adjustments reflected in the financial statements include certain adjustments to construction in progress and accounts payable. The financial statements do not reflect adjustments to construction in progress that were considered to be immaterial for audit purposes.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have received certain representations from management that are included in the management representation letter dated October 17, 2014.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the governmental unit's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the governmental unit's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

With respect to the supplementary information accompanying the financial statements, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

This information is intended solely for the use of the Board of Directors and management of the Bighorn-Desert View Water Agency and is not intended to be, and should not be, used by anyone other than these specified parties.

Mayer Hoffman Melman P.C.



Mayer Hoffman McCann P.C.
An Independent CPA Firm

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Board of Directors
BIGHORN-DESERT VIEW WATER AGENCY
Yucca Valley, California

*Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance
and Other Matters Based on an Audit of Financial Statements Performed
in Accordance With Government Auditing Standards*

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Bighorn-Desert View Water Agency (the "Agency"), which comprise the statement of net position as of June 30, 2014, and the related statements of revenues, expenses, changes in net position, and cash flows for the year then ended, and the related notes to the financial statements, and have issued our report thereon dated October 17, 2014.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Agency's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Agency's internal control. Accordingly, we do not express an opinion on the effectiveness of the Agency's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

A *significant deficiency* is defined to be a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance. The matters below conform to this definition.

2013-01 Communication of Audit Adjustments

Although it is not unusual for an audit to identify additional adjustments for posting to the accounting records, auditing standards require that we communicate to you all such adjustments. It is considered best practice for agencies to establish procedures to identify and post all necessary year-end adjustments prior to the commencement of the audit. Material adjustments reflected in this year's financial statements pertained to:



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- Adjustments to record accounts payable
- Adjustments to construction in progress
- Adjustments to miscellaneous expenses

Management's Comments Regarding Corrective Actions Planned

Management works closely with the auditors to ensure that audit adjustments identified each year are kept to a minimum and management continuously reviews its accounting procedures to achieve this result.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Agency's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

The Agency's Response to Findings

The Agency's response to the findings identified in our audit is described above. The Agency's response was not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the result of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Mayr Hoffman Nelson P.C.



Mayer Hoffman McCann P.C.
An Independent CPA Firm

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Board of Directors
Bighorn-Desert View Water Agency

**INDEPENDENT ACCOUNTANTS' REPORT ON AGREED-UPON
PROCEDURES APPLIED TO APPROPRIATIONS LIMIT WORKSHEETS**

We have applied the procedures enumerated below to the appropriations limit worksheets prepared by the Bighorn-Desert View Water Agency, California for the year ended June 30, 2014. These procedures, which were agreed to by the Bighorn-Desert View Water Agency, California and the League of California Cities (as presented in the League publication entitled *Article XIII B Appropriations Limitation Uniform Guidelines*) were performed solely to assist the Bighorn-Desert View Water Agency, California in meeting the requirements of Section 1.5 of Article XIII B of the California Constitution. The Agency is responsible for the calculation of the Appropriations Limit.

This engagement to apply agreed-upon procedures was performed in accordance with attestation standards established by the *American Institute of Certified Public Accountants*. The sufficiency of the procedures is solely the responsibility of the specified users of the report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

The procedures performed and the results of those procedures were as follows:

1. We obtained the worksheets referred to above and compared the limit and annual adjustment factors included in those worksheets to the limit and annual adjustment factors that were adopted by resolution of the Board of Directors. We also compared the population and inflation options included in the aforementioned worksheets to those that were selected by a recorded vote.

Results: No exceptions were noted as a result of our procedures.

2. We recalculated the mathematical computations reflected in the Agency worksheets.

Results: No exceptions were noted as a result of our procedures.

3. We compared the current year information used to determine the current year limit and found that it agreed to worksheets prepared by the Agency and to information provided by the State Department of Finance (as adjusted to reflect the service area of the Agency).

Results: No exceptions were noted as a result of our procedures.



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4. We compared the amount of the prior year appropriations limit presented in the worksheets to the amount adopted by the Board of Directors for the prior year.

Results: No exceptions were noted as a result of our procedures.

We were not engaged to, and did not, perform an examination, the objective of which would be the expression of an opinion on the worksheets referred to above. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you. No procedures have been performed with respect to the determination of the appropriation limit for the base year, as defined by the League publication entitled *Article XIII B Appropriations Limitation Uniform Guidelines*.

This report is intended solely for the use of the Bighorn-Desert View Water Agency, California and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes. However, this report is a matter of public record and its distribution is not limited.

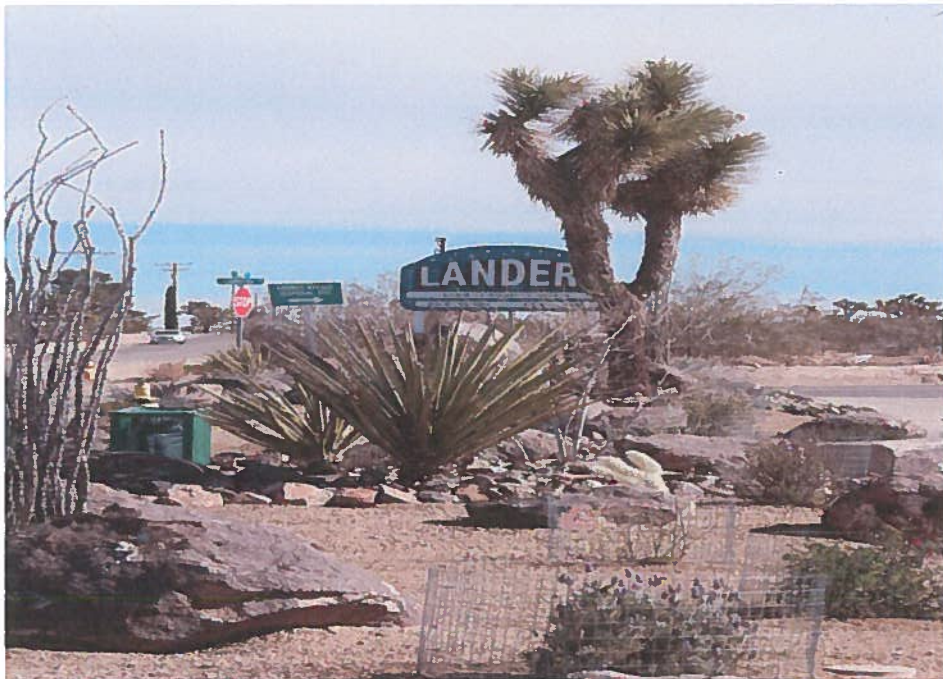
Mayer Hoffman Nelson P.C.

Irvine, California
November 17, 2014



**Comprehensive Annual Financial Report
For the Fiscal Years Ended
June 30, 2014 and 2013**

**Bighorn-Desert View Water Agency
A Public Agency
622 S. Jemez Trail
Yucca Valley, California
92284**



Prepared by:
Marina D. West, PG, General Manager
Gayla Blanton, Accounting Technician II



Our Mission, Vision and Values

"To provide a high quality supply of water and reliable service to all customers at a fair and reasonable rate.

To demonstrate accountability by taking economically responsible action today to secure our water supply for tomorrow.

We pledge to use all available resources for maintaining our existing facilities as well as plan, design, finance, and construct our future infrastructure for benefit to our customers in our service area.

Staff and board are committed to a comprehensive evaluation of the most important issues while establishing a record of fairness to all customers"

Bighorn-Desert View Water Agency
Board of Directors as of June 30th, 2014

Member	Office	Term Expires
Judy Corl-Lorono	President	2017
J. Dennis Staley	V. President	2017
Terry Burkhart	Secretary	2017
Michael McBride	Director	2015
J. Larry Coulombe	Director	2015

Bighorn-Desert View Water Agency
Marina D. West, PG, General Manager/Chief Engineer
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Comprehensive Annual Financial Report

For the Fiscal Year Ended

June 30, 2014

Bighorn-Desert View Water Agency

A Public Agency

622 S. Jemez Trail

Yucca Valley, California

92284

Prepared by:

Marina D. West, PG, General Manager
Gayla Blanton, Accounting Technician II

BIGHORN-DESERT VIEW WATER AGENCY
COMPREHENSIVE ANNUAL FINANCIAL REPORT

Year Ended June 30, 2014

(with comparative information for June 30, 2013)

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INTRODUCTORY SECTION

Bighorn-Desert View Water Agency

Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, V. President
Terry Burkhart, Secretary
Michael McBride, President
J. Larry Coulombe, Director



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Marina D West, P.G., General Manager

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A Public Agency

October 28, 2014

Introduction

It is our pleasure to submit the Annual Financial Report for the Bighorn-Desert View Water Agency for the fiscal years ended June 30, 2014 and 2013, following guidelines set forth by the Governmental Accounting Standards Board. The Agency is ultimately responsible for both the accuracy of the data and the completeness and the fairness of presentation, including all disclosures in this financial report. We believe that the data presented is accurate in all material respects. This report is designed in a manner that we believe necessary to enhance your understanding of the Agency's financial position and activities.

Generally Accepted Accounting Principles (GAAP) requires that management provide a narrative introduction, overview and analysis to accompany the financial statements in the form of the Management's Discussion and Analysis (MD&A) section. This letter of transmittal is designed to complement the MD&A and should be read in conjunction with the MD&A. The Agency's MD&A can be found immediately after the Independent Auditors' Report.

Agency Structure and Leadership

The Bighorn-Desert View Water Agency enabling Act, the "Bighorn Mountains Water Agency Law", is an Uncodified Act of the California Statutes of 1969, Chapter 1175, and effective August 31, 1969. The Law was amended in 1989 (Statutes of 1989, Chapter 570) through AB 1819 (Woodruff) to facilitate a proposed consolidation of the 1969 Bighorn Mountains Water Agency with the Desert View County Water District, which was completed in 1990 without further amendment to the Water Agency Law. In September 2013, Governor Jerry Brown signed into law SB 246 (Fuller) which is a complete modernization (re-write and re-organization) of the 1990 version of the Law.

The Bighorn-Desert View Water Agency operates pursuant to the provisions of the Bighorn-Desert View Water Agency Law, California Water Code Appendix, Sections 112-1 *et. seq.* The Agency is governed by a five-member Board of Directors, elected

at-large from within the Agency's service area. The General Manager administers the day-to-day operations of the Agency in accordance with policies and procedures established by the Board of Directors. In addition to the General Manager, the Agency staff consists of six (6) full-time employees organized in two departments: Administration and Operations.

The Agency's Board of Directors regularly scheduled meetings are on the fourth Tuesday of each month at 6 pm. Meetings are publically noticed and citizens are encouraged to attend.

The Agency provides water service to approximately 1,450 active residential customers, 340 infrequent/inactive customers, and 100 bulk-hauling customers within its forty-four (44) square-mile service area, located in the eastern desert area of San Bernardino County. The Agency encompasses the unincorporated communities in the county known as Flamingo Heights, (western) Landers, and Johnson Valley.

Agency Services

Residential customers represent nearly 100% of the Agency's customer base and therefore consume a majority of the water produced annually. A quantity of water is lost to system flushing, testing and leaks. The Agency currently has a total of six (6) active groundwater wells with a total system production capacity of 3,368 gallons per minute. In fiscal year 2013/14, the Agency produced approximately 393 acre-feet of groundwater, a decrease of approximately 8% from fiscal year 2012/13. The Agency did not purchase any imported State Project Water from the Mojave Water Agency during this time period. However, Mojave Water Agency in conjunction with the Agency completed construction of a groundwater recharge facility for the region.

Economic Condition and Outlook for the Local Economy

According to *Sperling's Best Places* the cost of living in the Landers area is 18.7% lower than the U.S. average. The unemployment rate is currently approximately 8.3% (down from 12% reported in FY2012/13). Using U.S. Census Block group data, all census blocks within the Agency boundaries are classified as a "disadvantaged". The area is classified as rural unincorporated San Bernardino County with a planned residential zoning of 2.5 acre minimum lot size. The area is comprised of predominantly English and Spanish speaking residents.

Within the Agency are very few commercial businesses. The largest employer is the local elementary school. Many local residents commute to the Twentynine Palms Marine Corps Ground Combat Center, Town of Yucca Valley or 60 miles south to Palm Springs, CA area or a similar distance north to the Victorville area for employment.

Major Initiatives

The activities of the Board and staff of the Agency are driven by our mission statement: "To provide a high quality supply of water and reliable service to all customers at a fair and reasonable rate". At the February 2014 Board Workshop the following goals and

objectives were developed for implementation over the next one to two years and beyond.

1. Balanced Budget and growth of reserve funds for replacement/refurbishment of infrastructure, emergency contingencies and capital improvement programs outlined in the 2005 Water Master Plan. Continue efforts to reduce costs where possible. Explore revenue enhancing measures such as standby fees and water transfers.
2. Actively participate in the upcoming Integrated Regional Water Management Plan (IRWMP) process to be undertaken by the Mojave Water Agency. Develop project proposals aimed at infrastructure and other capital improvements envisioned for the Agency during the 20-plus year planning horizon.
3. Remain focused on preventative maintenance of the water distribution system appurtenances including pressure reducing stations, fire hydrants, isolation valves, air vacuum valves and emergency power connections. Work with engineer to prioritize and implement short-term capital or refurbishment projects.
4. Continue outreach to the community through various forms of communication including newsletters, annual calendar, revised utility bill format, completion of the desert-wise water conservation garden at the Landers Post Office and participation in local community events (eg. Homestead Valley Park 3rd of July and the Gubler Orchid Festival), and plan meetings with elected officials at local, regional and state level to increase awareness on issues facing the Agency.
5. Update administrative procedures as needed including development of a "Director Handbook".
6. Completion of the Ames/Reche Spreading Grounds for recharge of imported water from the State Water Project through the Morongo Basin Pipeline in partnership with the Mojave Water Agency, Hi Desert Water District and the County of San Bernardino Special Districts Water Department. File *Amended and Restated Judgment for the Ames Valley Water Basin* on behalf of project participants.
7. Reorganization (acquisition) of the adjoining County Service Area 70/Zone W-1-Landers water system into Bighorn-Desert View Water Agency which would increase the customer base by approximately 650 metered residences (approx.. 1,500 properties) providing more efficient/effective service and local elected representation for customers of the county.
8. Continue to pursue grant opportunities for capital, replacement and refurbishment projects including emergency and disaster preparedness (i.e. 2011 Hazard Mitigation Planning Grant Notice of Interest).

9. Obtain Certificate of Achievement for Excellence in Financial Reporting for our Comprehensive Financial Report for a minimum of five consecutive years from the Government Finance Officers Association of the United States and Canada.
10. Submit application to Special District Leadership Foundation for the District Transparency Certificate in Excellence.

All programs and operations of the Agency are developed and performed to provide the highest level of services to its customers.

Accomplishments

To assist the Board of Directors in meeting their mission, staff achieved the following initiatives in fiscal year 2013/14:

1. Adopted a balance budget on time without reliance on cash reserves and with expectation of increased unrestricted reserves needed to fund planned capital projects and replaced aged vehicles. Placed liens on the secured property tax rolls for outstanding debt owed the Agency.
2. Continued progress on multi-year Ames/Reche Groundwater Storage and Recovery Program. Construction of the pipeline, outlet structure to the Pipes Wash and tie-in to the State Water Project through the Morongo Basin Pipeline was completed in August 2013 and the facility deemed "operational" in February 2014. Thereafter work began on preparing motions and filings for the *Amended and Restated Judgment for the Ames Valley Water Basin* with the Riverside County Court on behalf of project participants.
3. In February 2013, the Agency authored a state legislative bill to modernize the entire Bighorn-Desert View Water Agency Law (e.g. enabling act). The legislation, Senate Bill No. 246, was carried by Senator Fuller (18th District). Staff attended hearings in support of the bill throughout 2013 and on September 24, 2013 Governor Brown approved the bill. This bill assists the Agency by eliminating a long-standing but unnecessary requirement for financial separation of the predecessor entities Bighorn Mountains Water Agency and Desert View County Water District.
4. Completed an engineering study to evaluate the long-term viability of three Agency wells impacted by elevated uranium. Completed contract specifications for the installation of transfer switches at Agency facilities so that operations could continue during power outages utilizing portable power generators. Completed an "arc flash hazard study" at all Agency facilities.
5. In April 2014, the Agency filed an application and Plan of Service for the annexation of a neighboring water agency (CSA 70/Zone W-1) and its simultaneous dissolution from County of San Bernardino Special Districts Department.

6. Completed transition to an outsourced billing format to improve customer communication. Participated in various outreach events including Homestead Valley Park 3rd of July event, Gubler's Orchid Festival, Minerva Hoyt Water Education Day and Morongo Basin Conservation Association Desert-Wise Landscape Home Tour.
7. Preventative maintenance in 2012/13 included testing and refurbishment of all water production meters, refurbishment of several pressure reducing stations (PRV's), exercising 1/3 of the pipeline isolation valves, replacement of 1/3 of the air-vacuum valves, routine dead end flushing, as well as repair of approximately 43 service line leaks and replacement of 33 service lines
8. There were no Worker's Compensation claims filed and no Property Liability claims paid in program year 2013/14.
9. Agency Director Terry Burkhart continued her service to the Special Districts Risk Management Authority (SDRMA) Board of Directors.
10. Awarded Certificate of Achievement for Excellence in Financial Reporting for our Comprehensive Financial Report in fiscal year 2013/14 from the Government Finance Officers Association of the United States and Canada.
11. Awarded the 2-year Certificate of Excellence in District Transparency from the SDRMA.

Internal Control Structure

Agency management is responsible for the establishment and maintenance of the internal control structure that ensures the assets of the Agency are protected from loss, theft or misuse. The internal control structure also ensures adequate accounting data is compiled to allow for the preparation of financial statements in conformity with generally accepted accounting principles. The Agency's internal control structure is designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that (1) the cost of a control should not exceed the benefits likely to be derived, and (2) the valuation of costs and benefits requires estimates and judgments by management.

Budgetary Control

Each year the Agency Board of Directors has adopted an annual operating budget. The budget authorizes and provides the basis for reporting and control of financial operations and accountability for the Agency's operations. Capital budgets have not been passed by the Board of Directors due to lack of cash reserves to establish a formal budget for capital improvements and lack of an asset management plan. Therefore, projects are brought to the Board individually, as needed, for consideration. The budget and reporting treatment applied to the Agency is consistent with the accrual basis of accounting and the financial statement basis.

Investment Policy

The Board of Directors has adopted an investment policy that conforms to state law, Agency ordinance and resolutions, and prudent money management. The objective of the Investment Policy is safety, liquidity and yield. Although the policy covers a wide-variety of investment instruments the Agency's reserve funds are currently invested in the State Treasurer's Local Agency Investment Fund (LAIF) and an institutional checking account (Union Bank of California).

Water Rates and Agency Revenues

Agency's current policy direction ensures that all revenues from user charges generated from Agency customers must support all Agency operations including capital project funding. Accordingly, water rates are regularly reviewed. Water rates are user charges imposed on customers for services and are the primary component of the Agency's revenue. Water rates are composed of a commodity (usage) charge and a fixed meter (readiness-to-serve) charge. There were no rate increases imposed in fiscal year 2013/14.

Water Conservation Programs

The Agency is an active member of the Morongo Basin Alliance for Water Awareness and Conservation (MB AWAC). Agency Board and staff participate in and sponsor a number of community events with a conservation component, such as the Desert-Wise Landscaping Home Tours and Workshops held throughout the Morongo Basin. The Agency also distributes materials to encourage water conservation. The Agency has not found a need to implement a tiered water rate structure to encourage conservation as water usage in the service area averages less than 100 gallons per day per person.

Audit and Financial Reporting

State Law and Bond covenants require the Agency to obtain an annual audit of its financial statements by an independent certified public accountant. The accounting firm of Mayer-Hoffman-McCann P.C., An Independent Accounting Firm has conducted the audit of the Agency's financial statements. Their unqualified Independent Auditor's Report appears in the Financial Section.

Risk Management

The Agency has been a member of the Special District Risk Management Authority (SDRMA) since 1983. The purpose of SDRMA is to arrange and administer programs of insurance for pooling of self-insured losses and to purchase excess insurance coverage.

Technology Advance in Customer Service (E-government initiatives)

The Agency customers have the option to pay their bills in person at the Agency office, on-line through their bank account, with a major credit card over the phone or through

the Agency's website or the internet. The Agency implemented the Automated Clearing House (ACH) payment method for customers in fiscal year 2012/13.

Customers also have access to agency agenda's and agenda backup materials via email notifications immediately upon publication. The agenda materials as well as other reference material are also available on the Agency website (www.bdvwa.org). The Agency is in the process of updating the website to provide more historical documents and board actions to the public.

Other References

More information has been provided in both the Management's Discussion and Analysis and the Notes to the Basic Financial Statements which can be found in the Financial Section of this report.

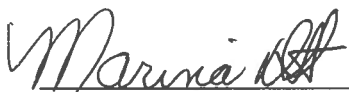
Awards and Acknowledgements

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to Bighorn-Desert View Water Agency for its comprehensive annual financial report of the fiscal year ended June 30, 2013. This was the third year that the Agency has applied for and achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. The Agency believes that the current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements and the Agency intends to submit an application to the GFOA to determine our eligibility for certification.

Preparation of this report was accomplished by the combined efforts of Agency staff. We appreciate the dedicated efforts and professionalism that our staff members bring to the Agency. We would also like to thank the members of the Board of Directors for their continued support in the planning and implementation of the Bighorn-Desert View Water Agency's fiscal policies.

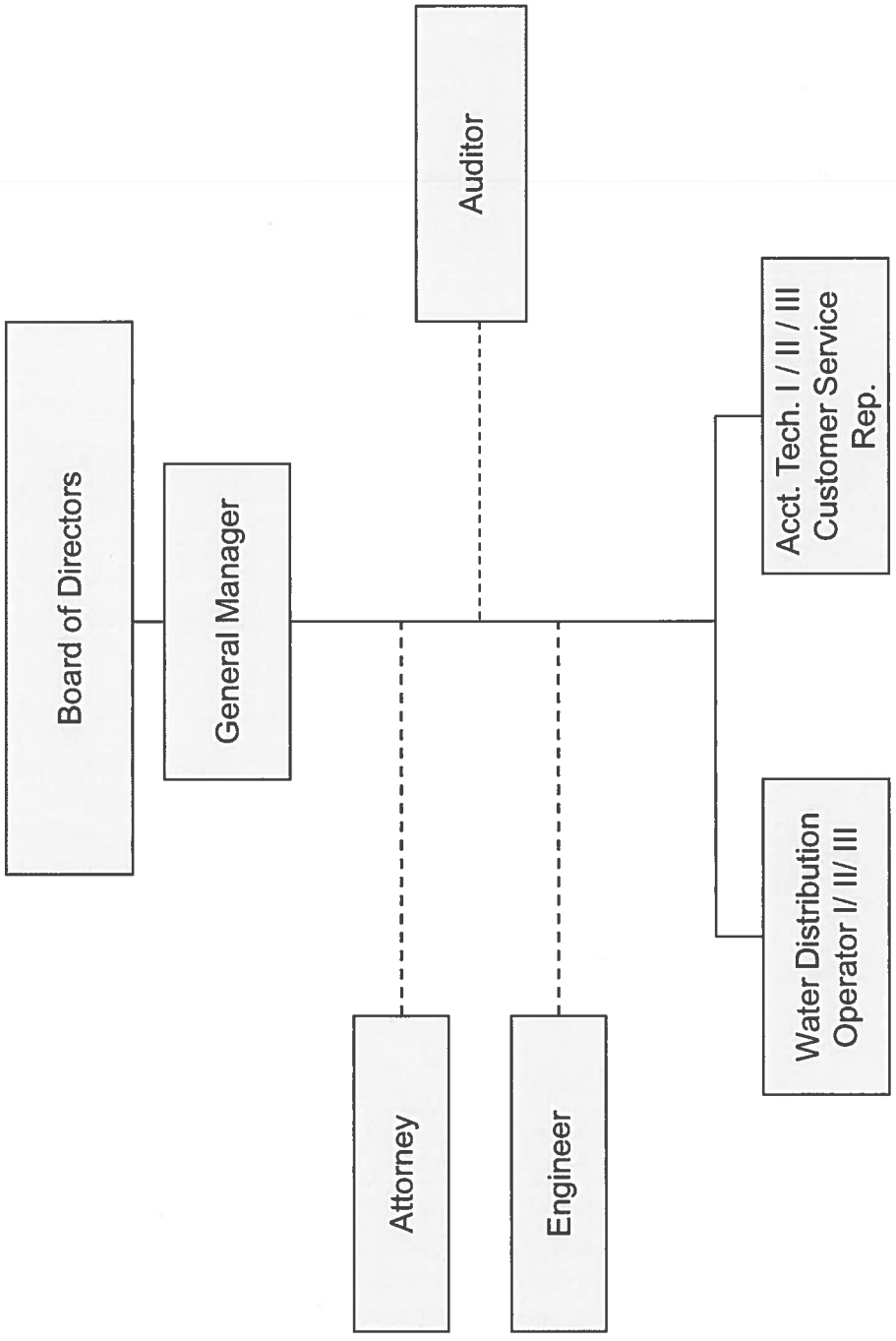
With Great Pleasure,



Marina D. West, PG
General Manager



Gayla Blanton
Accounting Technician II



Total positions authorized = 3

Total positions authorized = 3



Government Finance Officers Association

**Certificate of
Achievement
for Excellence
in Financial
Reporting**

Presented to

**Bighorn-Desert View
Water Agency, California**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2013

Executive Director/CEO

FINANCIAL SECTION

BIGHORN-DESERT VIEW WATER AGENCY

Page two

of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Bighorn-Desert View Water Agency, as of June 30, 2014, and the changes in its financial position and cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Report on Summarized Comparative Information

We have previously audited Bighorn-Desert View Water Agency's 2013 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated November 15 2013. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2013 is consistent, in all material respects, with the audited financial statements from which it has been derived.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that *management's discussion and analysis* be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

BIGHORN-DESERT VIEW WATER AGENCY

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Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise Bighorn-Desert View Water Agency's basic financial statements. The *introductory section* and the *statistical section* are presented for purposes of additional analysis and are not a required part of the basic financial statements. The *introductory section* and the *statistical section* have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 17, 2014 on our consideration of Bighorn-Desert View Water Agency's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Bighorn-Desert View Water Agency's internal control over financial reporting and compliance.

Mayer Hoffman Mackin P.C.

Irvine, California
October 17, 2014

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following discussion and analysis of the financial performance of the Bighorn Desert View Water Agency ("Agency") provides an overview of the Agency's financial activities for the fiscal year ended June 30, 2014. Please read it in conjunction with the transmittal letter and financial statements identified in the accompanying table of contents.

INFORMATION REPORTED IN THE ACCOMPANYING FINANCIAL STATEMENTS

One of the most important questions asked about the Agency's finances is, "Is the Agency better off or worse off as a result of the year's activities?" The Statement of Net Position (previously a Statement of Net Assets) and the Statement of Revenues, Expenses, and Changes in Net Position report information about the Agency in a way that helps answer this question. These statements include all assets and liabilities using the *accrual basis of accounting*, which is similar to the accounting used by most private-sector companies. All of the current year's revenues and expenses are taken into account regardless of when cash is received or paid.

The financial statements of the Agency report the Agency's net assets and changes in them. You can think of the Agency's net position – the difference between assets and liabilities – as one way to measure the Agency's financial health, or *financial position*. Over time, *increases and decreases* in the Agency's net assets are one indicator of whether its *financial health* is improving or deteriorating.

AGENCY FINANCIAL STATEMENTS

A summary of the Agency's *statement of net assets* follows:

	<u>2014</u>	<u>2013</u>	<u>Change</u>
Table 1 Net Position <i>Formally "Net Assets"</i> (in Actual Dollars)			
Current and Other Assets	\$ 1,757,916	\$ 1,517,564	240,352
Capital Assets	<u>3,677,468</u>	<u>3,914,504</u>	(237,036)
Total Assets	\$ 5,435,384	\$ 5,432,068	3,316
Current Liabilities	\$ 316,611	\$ 310,091	6,520
Non-Current Liabilities	<u>579,838</u>	<u>686,927</u>	(107,089)
Total Liabilities	\$ 896,449	\$ 997,018	(100,569)
Net Investment in capital			
Assets	\$ 3,003,491	\$ 3,130,527	(127,036)
Restricted	--	1,304,523	(1,304,523)
Unrestricted	1,535,444	--	1,535,444
Total Net Position	<u>\$ 4,538,935</u>	<u>\$ 4,435,050</u>	103,885

A summary of the Agency's *statement of revenues, expenses, and changes in net assets* follows:

Table 2
Changes in Net Position
Formally "Change in Net Assets"
(in Actual Dollars)

	<u>2014</u>	<u>2013</u>	<u>Change</u>
Operating Revenues			
Water Sales	\$ 453,100	\$ 468,824	(15,724)
Other revenues	<u>636,764</u>	<u>638,034</u>	(1,270)
Total Operating Revenues	\$ 1,089,864	\$ 1,106,858	(16,994)
Operating Expenses			
Transmission and Distribution	\$ 512,501	\$ 547,991	(35,490)
General and Administrative	640,378	516,493	123,885
Depreciation	<u>233,053</u>	<u>229,565</u>	3,488
Total Operating Expenses	\$ 1,385,932	\$ 1,294,049	91,883
Operating Income (Loss)	(296,068)	(187,191)	(108,877)
Non-Operating Revenues (Expenses):			
Interest revenue	6,227	3,142	3,085
Tax Levy & Surcharges	281,726	280,647	1,079
Desert View Debt Surcharge	49,843	49,967	(124)
Interest expense	(38,486)	(45,024)	6,538
Other expense	<u>(1,734)</u>	<u>(98)</u>	(1,636)
Total Non-Operating Revenues (Expenses)	\$ 297,576	\$ 288,509	9,067
Capital Contributions	102,377	193,000	(90,623)
Change in Net Position	103,885	294,318	(190,433)
Net Position at Beginning of Year	<u>4,435,050</u>	<u>4,140,732</u>	294,318
Net Position at End of Year	<u>\$ 4,538,935</u>	<u>\$ 4,435,050</u>	103,885

The increase or decrease in net position can provide an indication as to whether the overall financial position of the Agency improved or deteriorated during the year. Net position of the Agency increased slightly by 2% (\$4.54 million compared to \$4.43) million. The net assets (financial position) of the Agency changed as a result of the revenue and expense fluctuations described below.

The reasons for significant changes in the revenues and expenses of the Agency noted above are as follows:

- The decrease in capital assets from Fiscal Year 2012/13 to Fiscal Year 2013/14 was primarily due to the annual recognition of depreciation expense. The increase in current and other assets was primarily due to revenues earned in Fiscal Year 2013/14 exceeding the amount of expenses that were paid for operations.
- Non-current liabilities have been decreased by approximately \$107,000 as a result of payments made on the long-term debt service (General Obligation and Water Revenue Bonds) during the fiscal year. See Note 4 of the audited financial statements for further clarification.
- The net investment in capital assets diminished by the amount of depreciation that was recognized during the fiscal year. The Agency's unrestricted assets increased over the prior year. This is because the financial statements now identify all assets as unrestricted since the Agency's enabling act was modified through state legislation (SB 246) to eliminate prior requirements for separation of assets to each predecessor entity.

Throughout fiscal year 2012/13 and into 2013/14, the Agency sought changes to its enabling Act, which would remove the requirement to comply with Section 31012 of the County Water District Law referring to the separation of funds of each predecessor entity. The Agency authored SB 246 (Fuller) which was carried through the state legislature by Senator Jean Fuller (18th District) where it succeeded unopposed. In September 2013, Governor Jerry Brown signed into law SB 246 (Fuller) which eliminates this requirement and completely modernizes the Bighorn-Desert View Water Agency enabling Act providing final closure on this outstanding issue.

- Transmission and Distribution decreased by approximately \$35,500 which is primarily attributed to decreased spending (over prior period) on engineering design services, power for pumping water (less water pumped over prior year), vehicle maintenance and other one-time prior year expenses.
- General and Administrative costs increased above the prior year by approximately 124,000. The increase is attributed to increased medical benefit premiums as well as labor costs as employees earned Cost-of-Living Adjustments (COLA) and merit increases. A portion of the variance is related to expenses associated with development of a Hazard Mitigation Plan which will later be reimbursed through a grant obtained secured from the CA Office of Emergency Services for this purpose. Finally, in Fiscal Year 2013/14 the Board decided to proceed with an application to the Local Area Formation Commission (LAFCO No. 3181) for annexation of a neighboring county water

zone (CSA 70/W-1 Goat Mountain). A budget was approved and approximately \$42,000 was directed towards the annexation effort in FY13/14.

- Operating revenues decreased over prior year due to lower water sales attributed to customer water conservation.
- The net position at year end indicates the Agency's revenues exceeded expenses by nearly \$104,000 which is about \$20,000 less than projected in the FY2013/14 adopted Budget.

LONG-TERM DEBT

At the end of the 2013/14 fiscal year, the Agency had bonded debt outstanding of \$673,977 less the portion (\$116,000) due in less than one year. All debt payments were made on time and in full during the year. No new debt was issued during the fiscal year. The Desert View Water Revenue Bond matures in 2020. The Bighorn Mountains General Obligation Bond matures in 2019. For more detailed information on long-term debt activity see Note 4 of the enclosed financial statements.

Contacting the Agency's Financial Management

This financial report is designed to provide our citizens, taxpayers, customers, investors and creditors with a general overview of the Agency's finances and to show the Agency's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the General Manager's Office, at Bighorn Desert View Water Agency, 622 S. Jemez Trail, Yucca Valley, CA 92284.

BIGHORN-DESERT VIEW WATER AGENCY
STATEMENT OF NET POSITION
As of June 30, 2014
(with comparative information for June 30, 2013)

Assets	2014	2013
Current assets:		
Cash and cash equivalents (note 2)	1,202,156	744,931
Accounts receivable - water services	191,979	209,651
Due from other governments - Mojave Water	18,461	234,255
Property tax receivable	30,797	27,925
Inventory	70,100	63,035
Prepaid expenses	973	883
Total current assets	1,514,466	1,280,680
Non-current assets:		
Long term receivables (net of allowance for uncollectible amounts)	66,354	59,788
Idle Assets (note 3)	177,096	177,096
Capital assets not being depreciated (note 3)	98,010	503,522
Capital assets being depreciated, net (note 3)	3,579,458	3,410,982
Total non-current assets	3,920,918	4,151,388
Total assets	5,435,384	5,432,068
Liabilities		
Current liabilities:		
Accounts payable	90,199	96,139
Current portion of bonds payable (note 4)	116,000	110,000
Current portion of compensated absences (note 4)	28,054	27,619
Payroll liabilities	19,025	16,359
Customer deposits - water	58,831	54,778
Interest payable	4,502	5,196
Total current liabilities	316,611	310,091
Non-current liabilities (note 4):		
Bonds payable	557,977	673,977
Compensated absences	21,861	12,950
Total non-current liabilities	579,838	686,927
Total liabilities	896,449	997,018
Net Position		
Net investment in capital assets	3,003,491	3,130,527
Restricted	-	1,304,523
Unrestricted	1,535,444	-
Total net position	4,538,935	4,435,050
Total liabilities and net position	\$ 5,435,384	5,432,068

See Notes to Financial Statements

BIGHORN-DESERT VIEW WATER AGENCY
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
For the Year Ended June 30, 2014
(with comparative information for June 30, 2013)

	2014	2013
Operating revenues		
Water sales	\$ 453,100	468,824
Water services	41,879	50,544
Basic surcharge	594,885	587,490
Total operating revenues	1,089,864	1,106,858
Operating expenses		
Transmission and distribution	512,501	547,991
General and administrative	640,378	516,493
Depreciation	233,053	229,565
Total operating expenses	1,385,932	1,294,049
Operating income (loss)	(296,068)	(187,191)
Non-operating revenues (expenses)		
Interest income	6,227	3,142
Tax levy	281,726	280,647
Desert View debt surcharge	49,843	49,967
Gain/loss on disposal of asset	-	(125)
Other income/expense	(1,734)	(98)
Interest expense	(38,486)	(45,024)
Total non-operating revenues (expenses)	297,576	288,509
Income before capital contributions	1,508	101,318
Capital contributions	102,377	193,000
Change in net position	103,885	294,318
Net position at beginning of year	4,435,050	4,140,732
Net position at end of year	\$ 4,538,935	4,435,050

See Notes to Financial Statements

BIGHORN-DESERT VIEW WATER AGENCY
STATEMENT OF CASH FLOWS
For the Year ended June 30, 2014
(with comparative information for June 30, 2013)

	2014	2013
Cash flows from operating activities:		
Cash received from customers	\$ 1,102,151	1,198,494
Cash payments to suppliers for goods and services	(710,581)	(681,748)
Cash payments to employees and directors for services	(422,177)	(388,004)
Nonoperating miscellaneous expense	(1,734)	(5,187)
Net cash provided by (used in) operating activities	<u>(32,341)</u>	<u>123,555</u>
Cash flows from non-capital financing activities:		
Property taxes received	<u>99,712</u>	<u>99,207</u>
Net cash provided by non-capital financing activities	<u>99,712</u>	<u>99,207</u>
Cash flows from capital and related financing activities:		
Property taxes received in support of long-term debt	182,014	181,440
Other revenue received in support of long-term debt	49,843	49,967
Acquisition of capital assets	(17,221)	(444,837)
Principal paid on long-term debt	(110,000)	(105,000)
Interest paid on long-term debt	(39,180)	(45,024)
Capital contributions received	<u>318,171</u>	<u>-</u>
Net cash used in capital and related financing activities	<u>383,627</u>	<u>(363,454)</u>
Cash flows from investing activities:		
Interest received	<u>6,227</u>	<u>3,142</u>
Net cash used in investing activities	<u>6,227</u>	<u>3,142</u>
Net increase (decrease) in cash and cash equivalents	457,225	(137,550)
Cash and cash equivalents beginning, July 1	<u>744,931</u>	<u>882,481</u>
Cash and cash equivalents ending, June 30	<u>\$ 1,202,156</u>	<u>744,931</u>
Reconciliation of operating income (loss) to net cash provided by (used for) operating activities:		
Operating income (loss)	\$ (296,068)	(187,191)
Adjustments to reconcile operating income (loss) to net cash provided by (used for) operating activities:		
Depreciation	233,053	229,565
Other non-operating income (expense)	(1,734)	(5,187)
(Increase) decrease in accounts receivable	17,672	13,191
(Increase) decrease in property tax receivable	(2,872)	4,086
(Increase) decrease in long term receivables	(6,566)	(14,904)
(Increase) decrease in inventories	(7,065)	(124)
(Increase) decrease in prepaid expenses	(90)	5,441
(Increase) decrease in other assets	21,204	-
(Decrease) increase in accounts payable	(5,940)	68,405
(Decrease) increase in accrued liabilities	12,012	9,636
(Decrease) increase in customer deposits	<u>4,053</u>	<u>637</u>
Total adjustments	<u>263,727</u>	<u>310,746</u>
Net cash provided by (used for) operating activity	<u>\$ (32,341)</u>	<u>123,555</u>

There were no noncash capital, financing or investing activities for the years ended June 30, 2014 and June 30, 2013

See Notes to Financial Statements

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

For the Year Ended June 30, 2014

(1) Summary of significant accounting policies

Reporting entity - Bighorn-Desert View Water Agency (the "Agency") is a special district that was formed in 1990 when the San Bernardino County Board of Supervisors approved the consolidation of Bighorn Mountains Water Agency (established 1969) and Desert View Water District (established 1964). It is the Agency's mission to provide water and water related services to the population within the Agency's boundaries. Accordingly, the Agency is authorized to finance, construct, operate and maintain a water transmission and distribution system to benefit this population. There are 1,923 user connections within the Agency's boundaries which encompass approximately 44 square miles. The Agency is governed by a five-member Board of Directors, who are elected to staggered 4-year terms.

Basis of accounting - The Agency uses the flow of economic resources measurement focus. This measurement focus emphasizes the determination of net income. The accrual basis of accounting is used by the Agency. Under this method, revenues are recorded when earned and expenses are recorded at the time liabilities are incurred.

The Agency distinguishes operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with water sales to customers. Non-operating revenues are those derived from support of long-term debt and the investment of cash reserves.

Use of restricted resources - When resources are combined, the Agency generally uses restricted resources, prior to using unrestricted resources, to pay expenditures meeting the criteria imposed on the use of restricted resources.

Use of estimates - The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Inventory - Inventory of materials and supplies, consisting of parts used for utility plant construction are carried at the weighted-average cost.

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(1) Summary of significant accounting policies (Continued)

Utility plant - Capital assets are stated at cost. Depreciation is provided on a straight-line basis over the estimated useful lives which range from five to fifty years. Depreciation expense for the year ended June 30, 2014 was \$233,053. It is the policy of the Agency to capitalize property, plant and equipment with a cost of \$1,000 or more.

Allowance for uncollectible accounts - It is agency policy that for all water accounts delinquent for more than 90 days have a lien placed on their property. The agency believes that collection is certain as customers cannot sell their properties without remittance of their water payments. An allowance for uncollectible accounts of \$4,500 has been recorded for the year ended June 30, 2014, based on prior collection historical information, for amounts not collected when a property is sold through a Tax Levy sale. The amount placed on the tax rolls is recorded separately as a long term receivable on the balance sheet. Long Term receivables for the year ended June 30, 2014 were \$66,354.

Debt issuance costs - Debt issuance costs are expensed when incurred.

Other accounting policies - Customers are billed on a bi-monthly basis and the related revenues are recorded when customers are billed.

Income taxes - The Agency is exempt from Federal and State income taxes, as it is a public government agency.

Cash and cash equivalents - For purposes of the statement of cash flows, the Agency limits the term *cash and cash equivalents* to only currency on hand, demand deposits with banks or other financial institutions, and deposits in other kinds of accounts or cash management pools that have the general characteristics of demand deposit accounts in that the Agency may deposit additional cash at any time and effectively withdraw cash at any time without prior notice or penalty.

Property taxes - Property taxes are assessed and collected each fiscal year according to the following property tax calendar:

Lien date:	March
Levy date:	July 1 to June 30
Due date:	November 1 - first installment March 1 - second installment
Collection date:	December 10 - first installment April 10 - second installment

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(1) Summary of significant accounting policies (Continued)

General property taxes are assessed and collected by the County of San Bernardino on a rate per \$100 of assessed value, plus other increases approved by the voters. The general property taxes are pooled and are then allocated to the districts based on formulas. Property taxes are recognized as revenue when received and/or become available. Property tax revenues are considered available when they become due or past due and receivable within the current period and those expected to be collected during a 60-day period subsequent to the balance sheet date when significant.

Grants - When a grant agreement is approved and eligible expenditures are incurred, the amount is recorded as a federal capital or operating grant receivable on the statement of net position and as capital grant contribution or operating grant revenue, as appropriate, on the statement of revenues, expenses and changes in net position.

Prior year information - Certain data has been presented for the prior year. Such data does not represent a complete presentation in accordance with generally accepted accounting principles, but has been presented for comparative purposes only.

(2) Cash and investments

The Agency maintains a cash and investment pool that is available for all funds. Each fund type balance in the pool is reflected on the combined balance sheet as cash and investments.

Cash deposits - The carrying amounts of the Agency's cash deposits were \$181,899 at June 30, 2014. Bank balances before reconciling items were \$194,245 at that date, the total amount of which was collateralized or insured with securities held by pledging financial institutions in the Agency's name as discussed below.

The California Government Code requires California banks and savings and loan associations to secure the Agency's cash deposits by pledging securities as collateral. This Code states that collateral pledged in this manner shall have the effect of perfecting a security interest in such collateral superior to those of a general creditor. Thus, collateral for cash deposits is considered to be held in the Agency's name.

The market value of the pledged securities must equal at least 110% of the Agency's deposits. California law also allows financial institutions to secure the Agency's deposits by pledging first trust deed mortgage notes having a value of 150% of the Agency's

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(2) Cash and investments (Continued)

deposits. The Agency may waive collateral requirements for cash deposits, which are fully insured up to \$250,000 by the Federal Deposit Insurance Corporation (FDIC). The Agency follows the practice of pooling cash and investments of all funds, except for funds required to be held by fiscal agents under provisions of bond indentures. Interest income earned on pooled cash and investments is allocated on an accounting period basis to the various funds based on the period-end cash and investment balances; interest income from cash and investments with fiscal agents is credited directly to the related fund.

Investments - Under the provisions of the Agency's investment policy and in accordance with California Government Code, the following investments were authorized:

- Securities issued by the U.S. Treasury
- Securities issued and fully guaranteed as to payment by an agency of the U.S. Government
- Bankers' Acceptances
- Non-negotiable certificates of deposit
- Repurchase Agreements
- California Local Agency Investment Fund (State Pool)
- Corporate medium-term notes
- Mortgage-backed securities
- Diversified Management Companies, as defined by Section 23701m of the Revenue Taxation Code

Summary of cash and investments - The following is a summary of pooled cash and investments at June 30, 2014:

Cash and investments	\$1,202,156
----------------------	-------------

At June 30, 2014, cash and investments were composed of the following:

	Credit Quality Ratings	Fair Value
Deposits	Not Rated	\$ 181,899
Local Agency Investment Funds	Not Rated	1,018,707
Petty Cash	Not Rated	<u>1,550</u>
		<u>\$1,202,156</u>

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(2) Cash and investments, (Continued)

Risk Disclosures

Interest rate risk - As a means of limiting its exposure to fair value losses arising from rising interest rates, the Agency's investment policy limits the Agency's investment portfolio to maturities not to exceed five years at time of purchase.

Credit risk - State law limits investments in commercial paper and corporate bonds to the top two ratings issued by nationally recognized statistical rating organizations (NRSROs). It is the Agency's policy to limit its investments in these investment types to the top rating issued by NRSROs, including raters Standard & Poor's, Fitch Ratings, and Moody's Investors Service.

Summary of Investments to Maturity

The fair value of investments held by maturity at June 30, 2014, is shown below:

Maturity:	
Current to one year	\$1,018,707
Two to three years	-
Four to five years	-
Total	<u>\$1,018,707</u>

Investment in State Investment Pool - The Agency is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the Agency's investment in this pool is reported in the accompanying financial statements at amounts based upon the Agency's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis. LAIF is not rated.

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(3) Utility plant in service

A summary of changes in utility plant in service for the year ended June 30, 2014:

<u>Assets at Cost</u>	<u>Balance July 1, 2013</u>	<u>Additions</u>	<u>Deletions</u>	<u>Balance June 30, 2014</u>
Capital assets, not being depreciated:				
Land	\$ 76,611	-	-	76,611
Construction in progress	<u>426,911</u>	<u>17,221</u>	<u>(422,733)</u>	<u>21,399</u>
Total capital assets, not being depreciated	<u>503,522</u>	<u>17,221</u>	<u>(422,733)</u>	<u>98,010</u>
Capital assets, being depreciated:				
Fuel station	18,942	-	-	18,942
Motor vehicles	450,976	56,957	-	507,933
Office building	237,605	-	-	237,605
Office equipment	118,241	-	(22,152)	96,089
Organization	336,272	-	-	336,272
Shop equipment	41,328	-	-	41,328
Water system	7,865,319	344,522	-	8,209,841
Yards	<u>61,438</u>	<u>50</u>	<u>-</u>	<u>61,488</u>
Total capital assets, being depreciated	<u>9,130,121</u>	<u>401,529</u>	<u>(22,152)</u>	<u>9,509,498</u>
Total assets at cost	<u>9,633,643</u>	<u>418,750</u>	<u>(444,885)</u>	<u>9,607,508</u>
Accumulated depreciation:				
Fuel station	(12,201)	(813)	-	(13,014)
Motor vehicles	(393,588)	(20,992)	-	(414,580)
Office building	(210,863)	(2,243)	-	(213,106)
Office equipment	(117,250)	(268)	22,152	(95,366)
Organization	(83,157)	(13,451)	-	(96,608)
Shop equipment	(39,456)	(850)	-	(40,306)
Water system	(4,809,646)	(194,190)	-	(5,003,836)
Yards	<u>(52,978)</u>	<u>(246)</u>	<u>-</u>	<u>(53,224)</u>
Total accumulated depreciation	<u>(5,719,139)</u>	<u>(233,053)</u>	<u>22,152</u>	<u>(5,930,040)</u>
Total capital assets being depreciated, net	<u>3,410,982</u>	<u>168,476</u>	<u>-</u>	<u>3,579,458</u>
Capital assets, net book value	<u>\$ 3,914,504</u>	<u>185,697</u>	<u>(422,733)</u>	<u>3,677,468</u>

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(3) Utility plant in service, (Continued)

Idle Assets - During fiscal year 2011/2012 the Agency conducted a feasibility study as to the existence of ground water in the Johnson Valley. In doing so, the Agency constructed a well which was to be used to pump water from the Johnson Valley. However, it was determined that at the drilling depth dictated by the feasibility study, the well would not produce water. While the Agency could continue to drill to further depths, in hopes of creating a producing well, this decision has not yet been made by management or the Board of Directors. As such, the value of the Johnson Valley Well, \$177,096, will be held on the balance sheet as an Idle Asset, not to be depreciated, until the Agency decides how to proceed regarding further drilling. Since the well has not experienced a permanent decline in the service utility of the asset, the well is not considered to be impaired based upon the criteria of GASB Statement No. 42.

(4) Long-term debt

Bonds Payable:

June 30, 2014

Bighorn General obligation bonds:

Original issue \$1,875,000, 5%, maturing in 2019;
secured by tax levy revenues

\$ 470,000

Desert View Water revenue bonds:

Original issue \$700,000, 5%, maturing in 2020;
secured by a pledge of all revenues

203,977

Total bonds payable

673,977

Less portion due within one year

(116,000)

\$ 557,977

Change in Long Term Liabilities:

	Beginning Balance	Additions	Deletions	Ending Balance	Due Within 1 Year
Bighorn General Obligation Bonds	\$ 551,000	-	(81,000)	470,000	85,000
Desert View Water Revenue Bonds	232,977	-	(29,000)	203,977	31,000
Compensated Absences	<u>40,569</u>	<u>39,402</u>	<u>(30,145)</u>	<u>49,915</u>	<u>28,054</u>
Total	<u>\$ 824,546</u>	<u>39,402</u>	<u>(140,145)</u>	<u>723,892</u>	<u>144,054</u>

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(4) Long-term debt, (Continued)

Future long-term debt maturities are as follows:

Year Ending June 30	<u>General Obligation Bonds</u>		<u>Water Revenue Bonds</u>	
	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>
2015	\$ 85,000	23,500	31,000	9,022
2016	89,000	19,250	32,000	7,422
2017	94,000	14,800	34,000	5,722
2018	98,000	10,100	35,000	3,972
2019	104,000	5,200	37,000	2,122
2020	-	-	34,977	172
Total	<u>\$ 470,000</u>	<u>72,850</u>	<u>203,977</u>	<u>28,432</u>

(5) Joint powers authority

The Agency participates in a joint powers agreement (JPA), the Special District Risk Management Authority (SDRMA), in order to obtain workers compensation and property liability insurance coverage. The relationships between the Agency and the JPA are such that the JPA is not a component unit of the Agency for financial reporting purposes.

The JPA has budgeting and financial reporting requirements independent of member units and its financial statements are not presented in these financial statements; however, transactions between the JPA and the Agency are included in these statements.

Special Districts Risk Management Authority (SDRMA)

Purpose:	To purchase property, workers compensation, and liability insurance for member districts
Participants:	Special districts in California
Governing board:	Two directors selected by the California Special Districts Association and five elected from membership

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(6) Morongo Basin pipeline water delivery costs

On March 15, 1991, the Agency entered into an agreement with the Mojave Water Agency ("MWA") to receive water delivered through MWA's Morongo Basin pipeline ("the Pipeline") that serves the area of Improvement District M. Included in the transmission and distribution expenses of the Agency for the year ended June 30, 2014 are \$73,232 of such costs paid to MWA for water delivered through MWA's Morongo Basin pipeline. Under the terms of the agreement, the cost of the water purchased takes into account both operating and capital costs associated with the pipeline.

(7) Litigation

The Agency presently has no material action, suit or preceding that is expected to have a material adverse effect upon the financial condition of the Agency.

(8) Defined benefit pension plan

Plan description - The Agency contributes to the California Public Employees Retirement System (PERS), a cost sharing multiple-employer defined benefit pension plan. PERS provides retirement and disability benefits, annual cost-of-living adjustments, and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State of California. Benefit provisions and all other requirements are established by state statute and city ordinance. Copies of PERS' annual financial report may be obtained from their executive office: 400 P Street, Sacramento, CA 95814.

Funding policy - For the year ended June 30, 2014, the Agency was required to contribute an actuarially determined rate of 17.620% (employer's rate) of covered payroll. The contribution requirements of plan members and the Agency are established and may be amended by PERS.

Annual pension cost - The Agency's total contributions to CalPERS for the fiscal years ending:

	<u>June 30, 2014</u>	<u>June 30, 2013</u>	<u>June 30, 2012</u>
CalPERS contributions	\$ 46,433	40,788	38,520

BIGHORN-DESERT VIEW WATER AGENCY

NOTES TO FINANCIAL STATEMENTS

(Continued)

(8) **Defined benefit pension plan (Continued)**

For the year ended June 30, 2014, the Agency's annual pension cost for PERS was equal to the Agency's required and actual contributions (not including the portion paid on behalf of employees). The required contribution was determined as part of the June 30, 2011, actuarial valuation using the entry age normal cost method. The actuarial assumptions included: (a) 7.5% investment rate of return (net of administrative expenses); (b) projected annual salary increases of 2.75% attributable to inflation; and (c) a 0.25% across the board increase and merit increases that vary by length of service. The actuarial value of PERS assets was determined using techniques that smooth the effects of short-term volatility in the market value of investments over a three-year period (smoothed market value). PERS unfunded actuarial accrued liability is being amortized as a level percentage of projected payroll on a closed basis.

(9) **Debt Covenants**

The Agency is presently repaying two bond issues: (1) the 1979 Bighorn Mountains Water Agency General Obligation Bonds; and (2) the 1980 Desert View Water District Revenue Bonds. Each of these bond issues includes a series of covenants to which the Agency, or its predecessors, has agreed. One of the covenants in each issue is that the Agency will, at a minimum set its rates in a manner to provide sufficient revenue to cover operating costs, pay the principal and interest due on the bond installments, pay the annual payment required by the agreement with Mojave Water Agency, and have a specified coverage. The 1980 Desert View bonds have a coverage requirement that net revenues be 20% over the annual principal and interest payment. For the year ended June 30, 2014, this requirement has been met.

The Pledge of Revenues and Funds of the 1980 Desert View Water District Revenue Bonds (the "pledge") requires that a Reserve Fund be established to further secure the payment of the principal of and interest on those bonds. Pursuant to the pledge, the balance of this Reserve Fund is to be maintained at the average of all future payments, or \$38,735. At June 30, 2014, the reserve was fully funded and had a balance of \$1,018,707.

STATISTICAL SECTION

Financial Trends

These schedules contain trend information to help the reader understand how the government's financial performance and well-being have changed over time:

- Net Position by Component
- Changes in Net Position/Equity

Revenue Capacity

These schedules contain trend information to help the reader assess the government's most significant current local revenue source, the property tax:

- Water Sold
- Rates
- Largest Users

Demographic and Economic Information

These schedules offer demographic and economic indicators to help the reader understand the environment within which the government's financial activities take place:

- Demographic

Debt Capacity Information

These schedules assist users in understanding and assessing a government's debt burden and its ability to issue additional debt:

- Ratio of Outstanding Debt
- Ratio of General Bond Outstanding
- Pledged – Revenue Coverage

Operating Information

These schedules contain service and infrastructure data to help the reader understand how the information in the government's financial report relates to the services the government provides and the activities it performs:

- Employees
- Operating and Capital

**BIGHORN-DESERT VIEW WATER AGENCY
NET POSITION BY COMPONENT
LAST TEN FISCAL YEARS**

<u>Fiscal Year</u>	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Invested in capital assets, net of related debt	2,100,217	2,285,266	2,691,161	2,816,559	2,546,637	3,087,501	3,331,173	3,286,244	3,130,527	3,003,491
Restricted Bighorn/Desert View	408,227	413,889	-	-	-	766,463	-	-	-	-
Restricted for Bighorn	-	-	-	-	-	-	(182,214)	96,880	197,943	-
Restricted for Desert View	-	-	-	-	-	-	1,164,613	1,233,465	1,106,580	-
Unrestricted	501,402	492,707	845,948	453,169	940,679	-	-	-	-	1,535,444
Total net position	3,009,846	3,191,862	3,537,109	3,269,728	3,487,316	3,853,964	4,313,572	4,616,589	4,435,050	4,538,935
% Increase	5.29%	6.05%	10.82%	-7.56%	6.65%	10.51%	11.93%	7.02%	-3.93%	2.34%

Source: Audited financial statements

**BIGHORN-DESERT VIEW WATER AGENCY
CHANGES IN NET POSITION
LAST TEN FISCAL YEARS**

Fiscal Year	Water Operating Revenues	Water Operating Expenses	Operating Loss	Total Nonoperating Revenues/Expenses	Grant Income	Change in Net Position
2004/2005	793,862	918,655	(124,793)	275,989	-	151,196
2005/2006	957,729	878,861	78,868	103,148	200,000	182,016
2006/2007	1,028,163	1,078,584	(50,421)	117,286	278,378	345,243
2007/2008	901,719	1,337,090	(435,371)	167,994	11,077	(256,300)
2008/2009	1,066,200	1,107,924	(41,724)	210,507	42,855	211,638
2009/2010	1,144,587	1,172,020	(27,433)	161,738	232,343	366,648
2010/2011	1,102,914	1,196,140	(93,226)	122,229	430,605	459,608
2011/2012	1,102,119	1,222,486	(120,367)	295,167	128,217	303,017
2012/2013	1,106,858	1,294,049	(187,191)	288,509	193,000	294,318
2013/2014	1,089,864	1,385,932	(296,068)	297,576	102,377	103,885

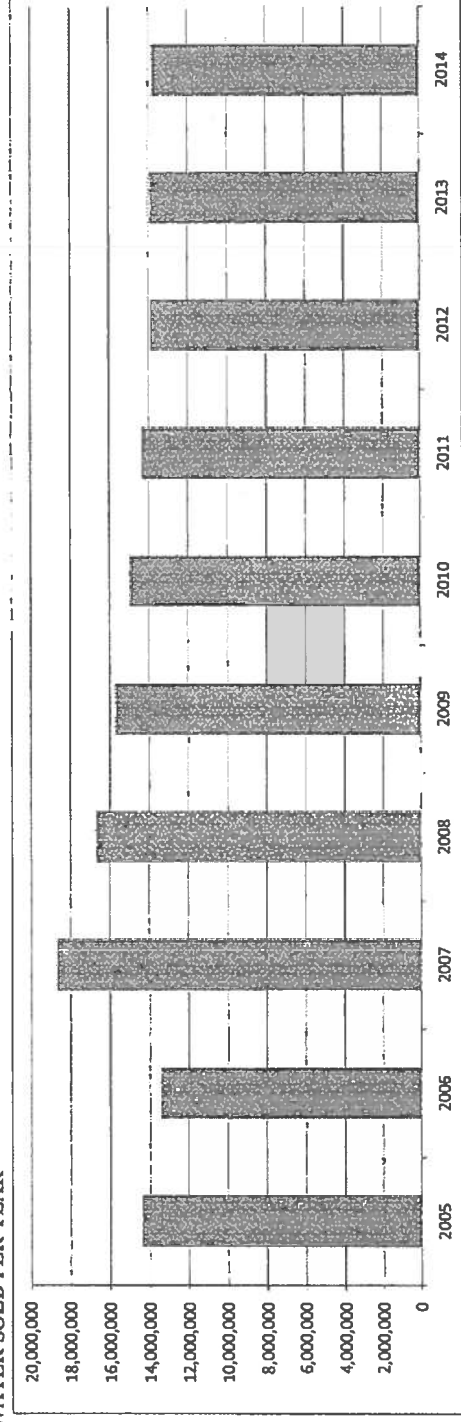
2012/2013 Changed total non-operating from 294,318 to correct amount of 288,509.

**BIGHORN-DESERT VIEW WATER AGENCY
WATER SOLD
LAST TEN FISCAL YEARS**

Fiscal Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
BIGHORN MOUNTAINS										
Residential 1-6 plus bulk accounts 30, 31 & 33										
Cubic Feet	6,151,317	6,342,070	9,182,709	8,018,498	7,410,980	6,714,996	6,542,481	6,307,928	6,313,798	6,452,122
Acre Feet	141.2	145.6	210.8	184.1	170.1	154.2	150.2	145	145	148
DESERT VIEW										
Residential 7-11 plus bulk account 32										
Cubic Feet	8,227,880	7,053,992	9,499,609	8,623,442	8,295,352	8,239,072	7,779,814	7,559,768	7,589,015	7,348,915
Acre Feet	188.9	161.9	218.1	198.0	190.4	189.1	178.6	173.5	174.2	168.7
Total Sales in Cubic Feet	14,379,197	13,396,062	18,682,318	16,641,940	15,706,332	14,954,068	14,322,295	13,867,696	13,902,813	13,801,037
Total Sales in Acre Feet	330.1	307.5	428.9	382.0	360.6	343.3	328.8	318.4	319.2	316.8

Bulk accounts are for individuals that haul their own water and water haulers.
Closed accounts are included with billing cycle regardless of route.

WATER SOLD PER YEAR



**BIGHORN-DESERT VIEW WATER AGENCY
WATER RATES
LAST TEN FISCAL YEARS**

Fiscal Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
BIGHORN MOUNTAINS										
Accounts 01-06										
Consumption Rate	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00
Basic Service Charge	\$20.00	\$20.00	\$20.00	\$20.00	\$27.50	\$27.50	\$27.50	\$27.50	\$27.50	\$27.50
DESERT VIEW										
Accounts 07-11										
Consumption Rate	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00
Basic Service Charge	\$20.00	\$20.00	\$20.00	\$20.00	\$27.50	\$27.50	\$27.50	\$27.50	\$27.50	\$27.50
FMHA	\$4.65	\$4.65	\$4.65	\$4.65	\$4.65	\$4.65	\$4.65	\$4.65	\$4.65	\$4.65
Accounts 30-33										
Consumption Rate	\$3.00	\$3.00	\$7.00	\$7.00	\$7.00	\$8.50	\$8.50	\$8.50	\$8.50	\$8.50
Basic Service Charge	\$20.00	\$20.00	None	None	None	None	None	None	None	None

"Basic Rate" is montly fixed basic service charge regardless of water consumption.

"Usage Rate" is rate imposed per 100 cubic feet metered Agency bills customers bi-monthly.

Basic Service Charge and Consumption Rate changes are subject to California Constitution limitations (aka: Proposition 218)

Customer		Sales in Cubic Ft	Annual Revenues	Percent of Sales
1	H2O2U (WATER HAULER)	200,660	\$17,758	3.92%
2	JS WATER (WATER HAULER)	107,190	\$9,486	2.09%
3	WHITE ROCK HORSE RESCUE	105,845	\$3,175	0.70%
4	LANDERS ELEMENTARY SCHOOL	97,590	\$2,928	0.65%
5	RESIDENTIAL CUSTOMER 1	96,628	\$2,899	0.64%
6	RESIDENTIAL CUSTOMER2	79,734	\$2,392	0.53%
7	HERO MARKET	64,701	\$1,941	0.43%
8	LOYAL ORDER OF MOOSE LANDERS LODGE	57,779	\$1,733	0.38%
9	RESIDENTIAL CUSTOMER	56,280	\$1,688	0.37%
10	RESIDENTIAL CUSTOMER 3	53,769	\$1,613	0.36%

13,801,037 \$ 453,100

Only potable water is distributed by BDVWA

High usage contributed to "water leaks" have been excluded

Customer	Sales in Cubic Ft	Annual Revenues	Percent of Sales
1 L&S WATER DELIVERY (WATER HAULER)	267,720	\$8,032	1.60%
2 MATICH CORP (CONSTRUCTION METER)	254,420	\$7,633	1.52%
3 DON LINDBERG (WATER HAULER)	115,210	\$3,456	0.69%
4 LANDER ELEMENTARY SCHOOL	105,088	\$3,153	0.63%
5 RESIDENTIAL CUSTOMER	94,370	\$2,831	0.57%
6 SALAS, DAVID (WATER HAULER)	93,400	\$2,802	0.56%
7 RESIDENTIAL CUSTOMER 1	85,733	\$2,572	0.51%
8 RESIDENTIAL CUSTOMER 3	72,672	\$2,180	0.44%
9 RESIDENTIAL CUSTOMER	66,212	\$1,986	0.40%
10 RESIDENTIAL CUSTOMER 2	64,762	\$1,943	0.39%

13,396,062 \$ 500,565

**BIGHORN-DESERT VIEW WATER AGENCY
RATIO OF OUTSTANDING DEBT BY TYPE
LAST TEN FISCAL YEARS**

Fiscal Year	BH Bond	DV Bond	Total Outstanding Debt	Percent of Personal Income	Debt per Capita
2004/2005	\$1,065,000	\$421,977	\$1,486,977	2.54%	\$587
2005/2006	\$1,013,000	\$401,977	\$1,414,977	2.24%	\$548
2006/2007	\$958,000	\$380,977	\$1,338,977	1.99%	\$511
2007/2008	\$900,000	\$358,977	\$1,258,977	1.87%	\$489
2008/2009	\$838,000	\$335,977	\$1,173,977	1.76%	\$456
2009/2010	\$772,000	\$311,977	\$1,083,977	1.48%	\$356
2010/2011	\$702,000	\$268,447	\$970,447	1.03%	\$318
2011/2012	\$628,000	\$260,978	\$888,978	0.78%	\$292
2012/2013	\$551,000	\$232,977	\$783,977	0.69%	\$257
2013/2014	\$470,000	\$203,594	\$673,594	0.78%	\$221

2010 and 2011 income was estimated by using the Yucca Valley income found in the financial report and taking the same % of increase/decrease.

2012, 2013, 2014 Median household income taken from http://www.bestplaces.net/economy/zip-code/california/yucca_valley/92284

2013-2014 population for 2010-2013 was updated so Debt per Capita changed.

**BIGHORN-DESERT VIEW WATER AGENCY
RATIO OF GENERAL BONDED DEBT OUTSTANDING
LAST TEN FISCAL YEARS**

Fiscal Year	Obligation Bonds	Assessed Value	Debt per Capita
2004/2005	\$1,065,000	\$1,065,000	\$420
2005/2006	\$1,013,000	\$1,013,000	\$392
2006/2007	\$958,000	\$958,000	\$366
2007/2008	\$900,000	\$900,000	\$350
2008/2009	\$838,000	\$838,000	\$325
2009/2010	\$772,000	\$772,000	\$254
2010/2011	\$702,000	\$702,000	\$230
2011/2012	\$628,000	\$628,000	\$206
2012/2013	\$551,000	\$551,000	\$180
2013/2014	\$470,000	\$470,000	\$154

2013-2014 Population for 2010-2013 was updated so Debt per Capita has changed.

**BIGHORN-DESERT VIEW WATER AGENCY
PLEDGED-REVENUE COVERAGE
LAST TEN FISCAL YEARS**

Desert View Water Revenue Bonds

Fiscal Year Ended June 30	FMHA Surcharge	Debt		Coverage
		Principal	Interest	
2003/2004	41,738	18,000	23,150	1.01
2004/2005	42,631	19,000	22,250	1.03
2005/2006	42,964	20,000	20,586	1.06
2006/2007	43,665	21,000	19,899	1.07
2007/2008	43,640	22,000	18,181	1.09
2008/2009	47,744	23,000	22,436	1.05
2009/2010	50,345	24,000	12,311	1.39
2010/2011	50,206	25,000	13,534	1.30
2011/2012	50,006	26,000	13,442	1.27
2012/2013	49,967	28,000	12,324	1.24
2013/2014	49,843	29,000	11,274	1.24

2004 - 2005 are estimated from number of service connections multiplied by the FHMA surcharge

**BIGHORN-DESERT VIEW WATER AGENCY
DEMOGRAPHIC AND ECONOMIC STATISTICS
LAST TEN CALENDAR YEARS**

Calendar Year	Population	Personal Income	Unemployment Rate
2005	2,535	\$23,104	5.30%
2006	2,582	\$24,425	5%
2007	2,619	\$25,645	5.60%
2008	2,574	\$26,178	8.20%
2009	2,575	\$25,837	13%
2010	3,045	\$24,052	13%
2011	3,047	\$31,027	14%
2012	3,049	\$37,293	12.7%
2013	3,053	\$37,293	14.0%
2014	3,053	\$28,255	8.3%

1. Population was recalibrated back to 2010 for the FY2013/14 CAFR based on analysis by Stanley Hoffman & Assoc. as part of an economic review for the Agency. In the future, population will be obtained from the Agency Appropriation Limit worksheet.

2. Personal income is based on an average of 3 blocks from U.S. Census American Community Survey Household Median Income in 2009, then compared to previous data for San Bernardino County. <http://www.bea.gov/regional/downloadzip.cfm>

3. 2012 Unemployment was taken from www.labormarketinfo.edd.ca.gov - Historical Civilian Labor Force

4. 2012 Median household income taken from http://www.bestplaces.net/economy/zip-code/california/yucca_valley/92284

5. 2013-2014 Population for 2010-2013 was updated.

Employer	Number of Employees				2014 % of Labor Force
	2010-2011	2011-2012	2012-2013	2013-2014	
Post Office	1	1	1	1	0.09%
Western Coffee Pot	4	1	2	0	0.00%
Mojave Liquor/ Hallidays	2	2	4	5	0.46%
Loyal Order/Moose Landers	2	2	2	2	0.18%
Halliday's	1	2	0	0	0.00%
Castle Inn	3	3	2	0	0.00%
Diversified Tools	4	4	4	2	0.18%
Heros	4	6	6	5	0.46%
Bighorn Desert View Water Agency	8	7	7	7	0.64%
Landers Elementary School	27	25	20	25	2.29%

Total Labor Force for BDV Service Area 1090

Employment information from 2003-2009 is not available.

Every employer in the Bighorn-Desert View service area is included.

2013-2014 Employees for Loyal Order of Moose in Landers has been carried over from the previous year. Unable to reach a representative.

Changes from 2012-2013:

Western Coffee Pot closed.

Castle Inn closed.

Changes from 2011-2012:

The owner of Mojave purchased Halliday's

Gubler's Orchid has been removed from the list, Gubler's is not in our service area.

Total Labor Force was estimated by using the Yucca Valley Labor Force found on:
www.Labormarketinfo.edd.ca.gov
then reduced according to the population.

**BIGHORN-DESERT VIEW WATER AGENCY
DISTRICT EMPLOYEES BY FUNCTION
LAST TEN FISCAL YEARS**

Water Operations	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Water Quality & Maintenance	1	1	1	1	1	1	1	1	1	1
Water Distribution & Maintenance	2	2	2	2	2	2	2	2	2	2
Field Supervisor*	1	1	1	1	1	1	0	0	0	0
Chief of Operations**	0	0	1	1	0	0	0	0	0	0
Administration										
Administration***	2	2	2	2	2	2	2	2	1	1
Accounting I, II, III/Customer Service	2	2	2	2	2	2	2	2	3	3
Total Positions	8	8	9	9	8	8	7	7	7	7

General Manager is included in Administration
Board Members and Temporary employees are not included.

*6/30/12: Supervisor Field Vacant.
**6/30/08 Chief of Operations position eliminated
***6/30/12: Exec. Sec/Personnel Vacant
***07/01/13: Exec. Sec/Personnel eliminated

**BIGHORN-DESERT VIEW WATER AGENCY
WATER SYSTEM STATISTICS
LAST TEN FISCAL YEARS**

POTABLE WATER SYSTEM¹	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Miles of pipeline:	120	120	120	120	120	120	120	120	120	120
Number of storage tanks	10	10	10	10	10	10	10	10	10	10
Maximum storage capacity (million gallons)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Number of active pumping plants	2	2	2	2	2	2	2	2	2	2
Number of active wells ² : domestic	8	8	8	8	8	8	7	7	7	6
Domestic well production capacity: acre feet per calendar year	452	474	530	487	469	432	412	412	427	427
Number of service connections ³ : Bighorn Mountains	787	804	825	809	1012	1008	1008	1007	1007	1009
Desert View	764	780	797	773	900	894	892	889	888	886
GENERAL INFORMATION										
Service area (annexed property): acres	27,353	27,353	27,353	27,353	27,353	27,353	27,353	27,353	27,353	27,353
square miles	43	43	43	43	43	43	43	43	43	43

1. Corrections have been from prior year statistics
2. Well 4 was inactivated in 2011 and Well 2 was inactivated in 2013
3. 2003 to 2008 figures include open meters in use only. 2009 the count was changed to include all meters active and inactive.
4. 2013-2014 Verified service connections for 2009-2013; both Bighorn Mountain and Desert View totals have been updated.

AGENDA ITEM # 6

**BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL**

Meeting Date: October 28, 2014

To: Board of Directors

Budgeted: Yes

Funding Source: 01-56192+OES Grant

Cost: \$8,300 (Agency cost match)

From: Marina West

General Counsel Approval: N/A

CEQA Compliance: N/A

Subject: Adoption of the Agency 2014 Hazard Mitigation Plan

SUMMARY

The draft Hazard Mitigation Plan (HMP) was released for public comment in August. Comments have been incorporated into the plan and a final draft is before the Board of Directors for adoption. The HMP is aimed at reducing or eliminating damage from disasters through this well-organized public education and awareness effort, preparedness and mitigation.

The consultant, Mr. Gary Sturdivan, will be present to answer any further questions regarding the HMP.

A current version of the Hazard Mitigation Plan document is posted on the Agency website at this link: <http://www.bdvwa.org/about-us/hazard-mitigation-plan/>

RECOMMENDATION

That the Board considers taking the following action(s):

1. Adopt the Agency's Hazard Mitigation Plan document dated October 28, 2014.

BACKGROUND/ANALYSIS

No further information provided.

PRIOR RELEVANT BOARD ACTION(S)

7/22/2014 Hazard Mitigation Plan Status Update and Receive Public Comments

6/24/2014 Motion No. 14-035 Authorize execution of the Designation of Applicant's Agency Resolution and the Subgrantee Assurances documents as required for execution of the Hazard Mitigation Planning Grant awarded by the California Office of Emergency Services and Hazard Mitigation Plan Status Update and Receive Public Comments.

5/27/2014 Hazard Mitigation Plan Status Update and Receive Public Comments

4/22/2014 Hazard Mitigation Plan Status Update and Receive Public Comments

3/25/2014 Update on the Hazard Mitigation Planning Grant Award from Office of Emergency Services

8/27/2013 Motion No. 13-062 Direct General Manager to develop an application for funding for non-disaster Hazard Mitigation Assistance Programs through the California Office of Emergency Services; and authorize maximum grant match funding in the amount of \$8,333 from the Agency's Emergency Contingency Fund.

12/8/2011 Motion No. 11-068 Authorize General Manager to coordinate with the Herndon Solutions Group to complete and submit a Federal Emergency Management Agency grant application for completion of a Hazard Mitigation Plan.

Hazard Mitigation Plan
Bighorn-Desert View Water Agency
Homestead Valley Community
California 92285

Adoption Date: October 28, 2014

Primary Point of Contact:

Marina West PG
General Manager
San Bernardino County, CA
(760) 364-2315 (office)



BIGHORN
DESERT
VIEW
WATER
AGENCY

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Appendix A – BDVWA Board Resolution

Appendix B - Water Conservation Ordinance 358 Section 15

Attachments

Attachment A- Public Meetings, Board Agendas, and Minutes

Attachment B- Planning Team meeting Agenda's, and Minutes

Attachment C- Generator Sizing, per Facility

Web-Links

Water Master Plan: <http://www.bdvwa.org/wp-content/uploads/2014/08/DOC003.pdf>

Urban Water Master Plan, under Mojave Water Agency:

<http://www.mojavewater.org/planning.html>

SECTION 1: INTRODUCTION

1.1 Purpose of the Plan

Emergencies and disasters cause death or leave people injured or displaced; cause significant damage to our communities, businesses, public infrastructure and our environment; and cost tremendous amounts in terms of response and recovery dollars and economic loss.

Hazard mitigation reduces or eliminates losses of life and property. After disasters, repairs and reconstruction are often completed in such a way as to simply restore infrastructure to pre-disaster conditions. Such efforts expedite a return to normalcy; however, the replication of pre-disaster conditions results in a cycle of damage, reconstruction, and repeated damage. Hazard mitigation attempts to break this cycle, which results in a reduction in hazard vulnerability.

While we cannot prevent disasters from happening, their effects can be reduced or eliminated through a well-organized public education and awareness effort, preparedness, and mitigation. For those hazards, which cannot be fully mitigated, the community must be prepared to provide efficient and effective response and recovery to emergencies.

1.2 Authority

As required by the Department of Homeland Security's Federal Emergency Management Agency (DHS-FEMA), all Hazard Mitigation Plans (HMP) must be updated, adopted, and approved every five (5) years. The Bighorn-Desert View Water Agency (BDVWA) has not had a Hazard Mitigation Plan in the past. The purpose of completing a plan is to validate and incorporate information into the plan and identify the hazards to the community and formulate mitigation measures for the future protection of the community and critical infrastructure. It should also be noted that an approved HMP is required to receive federal assistance under the Hazard Mitigation Grant Program (HMGP) or Pre Disaster Mitigation (PDM) programs.

1.3 Community Profile

The Bighorn-Desert View Water Agency provides water service to approximately 1,450 active residential customers, 400 infrequent/inactive customers, and 100 bulk-hauling customers within its forty-four (44) square mile service area, located in the Western Mojave Desert of San Bernardino County. The BDVWA encompasses the unincorporated Homestead Valley Communities in the County known as Flamingo Heights, Johnson Valley, and Landers.

The Bighorn-Desert View Water Agency is a consolidated independent Special District, formed in 1990, operating pursuant to the provisions of the Bighorn-Desert View Water Agency Law, California Water Code Appendix 112-1 et. Seq. The BDVWA is governed by a five-member Board of Directors, elected at-large from within the Agency's service area. The General Manager administers the day-to-day operations of the BDVWA in accordance with policies and procedures established by the Board of Directors. In addition to the General Manager, the BDVWA employs six (6) full time employees organized into two departments: Administration and Operations.

1.3.1 Physical Setting

The Bighorn-Desert View Water Agency is located in the State of California, San Bernardino County High Desert area, 30 miles North of Interstate 10 and Palm Springs, and Southeast of the City of Victorville. The Community of Landers and the Bighorn-Desert View Water Agency are located in the South Eastern section of the Mojave Desert on the Eastern side of the San Bernardino Mountains.

The Mojave Desert occupies a significant portion of Southern California and parts of Utah, Nevada, and Arizona. Named after the Mojave Native Americans, it occupies roughly 54,000 square miles in a typical Basin and Range topography. The Mojave Desert is bound in part on the Western ends by the Tehachapi Mountains together with the San Gabriel and San Bernardino Mountain Ranges. The mountain boundaries are quite distinct since they have been created by the two largest faults in California: the San Andreas and the Garlock. Its Northern and Eastern boundaries are less distinct. One way to determine location is by observing the presence of Joshua Trees. The Mojave Desert receives less than 6 inches of rain a year and is generally between 3,000 and 6,000 feet in elevation. The Mojave Desert also contains the Mojave National Preserve; Joshua Tree National Park; and the lowest-hottest place in North America: Death Valley, where the temperature can approach 120 F in late July and early August. The Mojave Desert, like all deserts in general, is known for its summer heat; however, in the wintertime - cold. Snow, although uncommon, does fall in parts of the Mojave Desert. Amounts range from just a trace, to a foot or more of heavy wet snow, which can lead to freeway traffic closures, and the population being "snowed in." The coldest wintertime temperature ranges well below freezing. Many parts of the Mojave Desert typically range from highs of around 95-105° F in the summer, to lows of around 15-30° F in the winter, and may dip even lower. High winds, often above 50 miles per hour, are also a weather factor and occur frequently along the Western end of the Mojave Desert.

1.3.2 History

Bighorn-Desert View Water Agency

The Bighorn-Desert View Water Agency is a consolidated Independent Special District, formed in 1970, working pursuant to the provisions of the Bighorn-Desert View Water Agency Law, California Water Code Appendix, Sections 112-1 et. Seq. The BDVWA is governed by a five-member Board of Directors, elected at-large from within the Agency's service area. The General Manager administers the day-to-day operations of the BDVWA in accordance with policies and procedures established by the Board of Directors. In addition the General Manager, the BDVWA employs six (6) full-time employees organized into two departments: Administration and Operations. The BDVWA's Board of Directors regularly scheduled meetings are on the fourth Tuesday of each month at 6:00 p.m. Meetings are publically noticed and citizens are encouraged to attend.

The BDVWA provides water service to approximately 1,450 residential customers, 400 infrequent/inactive customers, and 100 bulk-hauling customers within its forty-four (44) square-mile service area, located in the Western desert of San Bernardino County. The BDVWA encompasses the unincorporated communities in the county known as Flamingo Heights, Johnson Valley, and Landers.

Community of Landers

Landers lies in the Homestead Valley section of San Bernardino County, also known as the Southeastern part of the Mojave Desert. The town's elevation is 3,100 feet (940 m) above sea level.

Landers is located approximately 14 miles north of Yucca Valley; is bordered by the Village of Joshua Tree to its southeast; Johnson Valley to its north; and Pioneertown to its southwest. California State Route 247, named "Old Woman Springs Road," passes through Landers from Yucca Valley en route north to Barstow.

The U.S.P.S. Landers Post Office is located at Landers Lane and Reche Road, serving Zip Code 92285. A Loyal Order of Moose Lodge, convenience store, realty office, chamber of commerce, elementary school, and community center are also located in the mostly residential community. The Landers Airport has a short runway, adequate for single engine aircraft.

The 1992 Landers earthquake was a magnitude 7.3, earthquake that occurred on June 28, 1992 with an epicenter near the Community of Landers and Flamingo Heights, California.

County of San Bernardino

San Bernardino County, officially the County of San Bernardino, is a county located in the southern portion of the U.S. state of California. As of the 2010 U.S. Census, the population was 2,035,210, up from 1,709,434 in the 2000 census. With an area of 20,105 square miles, San Bernardino County is the largest county in the United States by area. It is larger than each of the nine smallest states, larger than the four smallest states combined, and larger than 71 different sovereign nations.

Located in southeast California, the thinly populated deserts and mountains of this vast county stretch from where the bulk of the county population resides in two Census County Divisions, some 1,422,745 people as of the 2010 Census, covering the 450 square miles south of the San Bernardino Mountains in San Bernardino Valley to the Nevada border and the Colorado River.

1.3.3 Demographics

The BDVWA service area is commonly called a bedroom community. The community has no public hospitals or major manufacturers within its boundaries. The BDVWA service area contains approximately 44 square miles and currently serves approximately 2,000 residents over a large service area. The Landers, Johnson Valley and Flamingo Heights are listed by the State of California, as a severely disadvantaged community.

1.3.4 Existing Land Use

The existing land use is housing and small to light industry. The largest employer in the area is the 29 Palms Marine Base, the largest Marine Base in the world. However, 29 Palms has most of the military housing, and the Landers area does not benefit only slightly from the installation, due to the fact that there are no finished roads from the Landers area into the Marine Base.

1.3.5 Development Trends

The development of the Landers area has been insignificantly since the housing industry crash. The BDVWA has not seen an increase of the housing market or any development in the BDVWA boundaries. There are no new housing projects or planned development of either industry or housing in the near future.

SECTION 2: PLAN ADOPTION

2.1 Adoption by Local Governing Body

This 2014 Hazard Mitigation Plan (HMP) will be presented to the Bighorn-Desert View Water Agency's Governing Body for adoption upon final FEMA approval.

Upon adoption, The Board meeting minutes will be included within the HMP.

2.2 Promulgation Authority

This Hazard Mitigation Plan was reviewed and approved by the Elected members of the Bighorn Desert View Water Agency Board of Directors:

Ms. Judy Corl-Lorono
Board President

Description of Involvement: Board President, Bighorn-Desert View Water Agency Board of Directors

Mr. J. Dennis Staley
Vice President

Description of Involvement: Vice-President, Bighorn-Desert View Water Agency Board of Directors

Mrs. Terry Burkhart
Director/ Board Secretary

Description of Involvement: Director, Bighorn-Desert View Water Agency Board of Directors

Mr. Michael McBride

Description of Involvement: Director, Bighorn-Desert View Water Agency Board of Directors.

Mr. J. Larry Coulombe
Director

Description of Involvement: Director, Bighorn-Desert View Water Agency Board of Directors

Ms. Marina West, PG
General Manager / Chief Engineer

Description of Involvement: General Manager, Bighorn-Desert View Water Agency

2.3 Primary Point of Contact

The Point of Contact for information regarding this plan is:

Marina West, PG
General Manager/ Chief Engineer
Bighorn-Desert View Water Agency
622 South Jemez Trail
Yucca Valley CA 92284
760-364-2315 (Office)

Or

Gary Sturdivan
Sierra West Consultants
gsturdivan@mac.com
909-658-5974

SECTION 3: PLANNING PROCESS

The purpose of this section is to document the planning process that was taken to review and compile information that would lead to an affective Hazard Mitigation Plan (HMP). A comprehensive description of the planning process not only informs citizens and other readers about how the plan was developed, but also provides a permanent record of how decisions were reached so it can be replicated or adapted in future plan updates. An integral part of the planning process is documentation of how the public was engaged through the process.

This HMP was completed with the coordination and involvement of the BDVWA staff, which have a vested interest in the resiliency of the Agency. Additionally, other involved persons are employees from other water agencies in the area, such as Joshua Basin Water District and Hi-Desert Water District; local community concerned citizens; the Morongo Basin community; and the Board of Directors. For example, one person on the Planning Team has been with BDVWA since 2002 and knows the history of previous hazards affecting the Agency. This team developed and implemented the planning process.

This section includes a list of the Planning Team Members, a summary of the meetings held, coordination efforts with the surrounding communities/groups, and all Public Outreach efforts.

3.1 Preparing for the Plan

The Planning Team reviewed the FEMA, Hazard Mitigation Planning Crosswalk: the hazards that could and have had an effect on the region in the past. Once the Planning Team had reviewed these documents and added any new hazard and mitigation program information, recommendations were presented for public review and input.

The update process consisted of:

- Documenting of past events
- Incorporating data
- Engaging the Planning Team
- Posting the meeting agendas and meeting minutes onto the BDVWA's website
- Sharing information at the monthly BDVWA Board Meetings
- Conducting Public Outreach

The Planning Team provided a better understanding of the planning process and was able to give a timeframe of the effort. Table-1 shows the draft time line for preparing the Draft HMP for the BDVWA, which is discussed further in the following sections.

3.1.1 Planning Team

This Hazard Mitigation Plan was compiled and authored by members of the following Planning Team:

Ms. Marina West, PG

General Manager/ Chief Engineer

Description of Involvement: Planning Team Member

Ms. West is the General Manager for Bighorn Desert View Water Agency. Ms. West coordinates meetings and has direct input into the planning of the Mitigation Planning Team. Ms. West attends all mitigation meetings and has a vast knowledge of the area and the BDVWA's past history in emergencies. Ms. West is a Registered Professional Geologist. She has a state of California Water Distribution certification D-5 and Treatment T-2, with over 25 years of professional experiences in the water industry in California.

Ms. Judy Corl-Lorono

President of the Board of Directors, Bighorn Desert View Water Agency

Description of Involvement: Planning Team Member

Service to the community has been a major part of Ms. Corl-Lorono life since moving to Yucca Valley in 2001. Ms. Corl-Lorono worked for the Salvation Army, running a thrift store in Yucca Valley. Ms. Corl-Lorono put the skills learned in the hotel and food industry to use running a free food distribution center in Palm Desert. She utilized the spirit of community. As a Director BDVWA, Ms. Corl-Lorono has focused on learning about water related issues and served as President of the Board in 2008/2009 and has served as Vice-President of the Board. Ms. Corl-Lorono is current President of the BDVWA Board for 2013/2014

Mr. Gary Sturdivan

HMP Consultant

Description of Involvement: Planning Team Lead

Gary Sturdivan is the Consultant hired by Bighorn-Desert View Water Agency as Team Leader for the BDVWA's Mitigation Plan. Mr. Sturdivan sets the Agenda for all mitigation meetings, compiles all information for public input, and coordinates all mitigation meetings. Mr. Sturdivan takes information to the Agency's Board of Directors and oversees information for input into the Mitigation Plan. Mr. Sturdivan has a vast knowledge of Mitigation Planning, Grant Funding, and Emergency Management. Mr. Sturdivan worked in the water industry for 25 years prior to retiring in 2011.

Mr. Mark Ban
Assistant General Manager
Hi-Desert Water District

Description of Involvement: Planning Team Member

Mr. Ban has a vast knowledge of the issues facing water agencies in the Desert along with the hazards, mitigation, and operations of middle-sized water districts. Mr. Ban has been a past Planning Team Member in other HMP planning teams in the San Bernardino and Riverside Counties. Mr. Ban and Hi-Desert Water District are members of the Emergency Response Network of the Inland Empire.

Mr. Steve Corbin
Water Production Operator II
Joshua Basin Water District

Description of Involvement: Planning Team Member

Mr. Corbin is a Water Production Operator II at Joshua Basin Water District. Mr. Corbin has 7 years of experience in the water industry and 34 years experience in electro-mechanical manufacturing/repair and metal fabrication/welding. Mr. Corbin understands the effects disasters have on the community and the importance of a safe water supply to the community.

Ms. Judith Laffoon
Area Resident and Customer of Bighorn Desert Water Agency Water

Description of Involvement: Planning Team Member

Judith Lynn Laffoon is an Administrative Assistant (ret.), Maintenance and Operations - Morongo Unified School District. Landers resident of 21 years; member of the Landers Association; BDVWA customer; CERT Team Leader for the Community of Landers, and active volunteer in multiple disaster organizations: Morongo Basin CERT, American Red Cross, ARES, Morongo Basin Emergency Management Council (CERT), California Disaster Corp, and SoCal VOAD.

Mr. David Rewal
Lead Water Distribution Operator

Description of Involvement: Planning Team Member

Mr. Rewal is the Lead Water Distribution Operator at Bighorn-Desert View Water Agency and has been with the Agency since 2001. Mr. Rewal is a key person in the daily operations of the Agency's water distribution system. Mr. Rewal possesses a State of California Water Distribution Certificate Level D-3, and a Treatment Certificate T-2. Mr. Rewal is an avid golfer and competes in golf fundraisers in and around the Morongo Basin.

Mr. David Rodriguez
Area Resident/Engineering Tech

Description of Involvement: Planning Team Member

Mr. Rodriguez is a 35 year resident of Yucca Valley, and has work experience in the field of Civil Engineering and Land Planning. Mr. Rodriguez has worked with local civil engineering firms including Joshua Basin Water District, where Mr. Rodriguez served as the District's Resident

Engineer and Inspector. Mr. Rodriguez has been involved in the Town of Yucca Valley's General Plan Advisory Committee. Mr. Rodriguez is self-employed as a Civil Engineering/Land Planning Consultant and is currently the Engineering/Inspection Consultant with Bighorn Desert View Water Agency.

Mr. Ken Jones

Area Resident and Customer of Bighorn Desert View Water Agency

Description of Involvement: Planning Team Member

Mr. Jones is the Morongo Basin CERT Team Leader for the Community of Flamingo Heights, Morongo Basin CERT Member, and Vice-President of Flamingo Heights, HAM radio Community Association. He is a long time resident of the California Desert.

3.2 Coordination with Other Jurisdictions, Agencies, and Organizations

Mr. Gary Sturdivan is coordinating the Hazard Mitigation Planning Team for Bighorn Desert View Water Agency. The General Manager of BDVWA has asked several agencies to participate in the planning of this document. The Team consists of one person from nearby Joshua Basin Water District, one person from nearby Hi-Desert Water District, two persons from BDVWA, a Contract Engineering Tech for BDVWA, and three members of the public who live in the area. The County of San Bernardino Office of Emergency Services has been asked to participate on the Planning Team; however, Mr. Sturdivan has received no response from the County of San Bernardino, OES.

The Team participated in bi-weekly meetings to coordinate and receive support for the HMP. The support included receiving technical expertise, resource materials, and tools, not only to expedite the HMP update process, but also to ensure that the information received is in compliance with the Federal requirements of the program. The tools, resource materials, and other project related information is maintained on a Project Portal (www.bdvwa.org) to ensure the information is available to all participants and the public at large.

Also, interaction with other local water agencies proved valuable in the development of the mitigation projects for the plan. Water agencies within the Morongo Basin, in San Bernardino County, met to collectively discuss necessary decisions for the HMP and ideas to streamline resources. Bighorn-Desert View Water Agency hosted meetings at the Agency Boardroom and organized the process for participating water agencies.

3.3 Public Involvement/Outreach

An effort was made to solicit public input during the planning process at the BDVWA Board Meetings beginning in March 2014 until completion of the plan. Information about the plan is posted on the Agency's website (www.bdvwa.org) and on Board Agendas for any public comments. Monthly Board Meetings are opened with a HMP Section for "Public Comment," where the Consultant Mr. Sturdivan is available to answer any comments or questions that may come up from the public. Mr. Sturdivan updates the Board of Directors and the Public on the progress of the HMP. Board Members and the Public are given time to ask questions. Questions are addressed at these meetings, or answered in writing after the meeting. The Public HMP meetings were recorded and meeting minutes taken.

The 2014 agendas and meeting minutes, and portions of the HMP are posted on the Agency's website as the HMP as written, asking for public comments.

See **Attachment A** for the details of the public involvement process such as the meeting dates, purpose, agendas, sign-in sheets, minutes, and public comments.

3.4 Assess the Hazard.

This HMP has been developed through an extensive review of available information on hazards the Agency has faced in the past and most likely will face in the future. The Team viewed and discussed items that have happened in the State of California as well as disasters that have happened in desert areas in the United States. The Team reviewed documents such as engineering drawings, aerial

photographs, and available geotechnical and geologic data both from the Internet and outside sources (for example, California Geological Survey for detailed fault investigation reports).

The Planning Team completed the assessment of the various hazards in a group. The Team has an average of 30 years of personal experience working in a water utility and knows the history of past hazardous events, such as the 1992 Landers Earthquake a 7.3 magnitude earthquake that severely impacted the region. This earthquake's epicenter was at 34° 13' N, 116° 26' W 6 miles north of Yucca Valley in the area of Landers, CA. The fault rupture was within 10 feet of one of the BDVWA's reservoirs.

3.5 Set Goals

The process of identifying mitigation goals began with a review and validation of damages done to the agencies in the surrounding area. The Planning Team completed an assessment and had discussion of whether each of the mitigation goals was valid. This discussion also led to the opportunity to identify new goals and objectives for mitigation in the Plan such as pipelines that are undermined in flooding and debris flow each year.

The Agency's Planning Team set the goals for the 2014 HMP. The team members understand and know the issues facing the Agency with respect to the Agency's Mission Statement "To provide a high quality supply of water and reliable service to all customers at a fair and reasonable rate."

At one of the planning meetings, the group "brainstormed" to determine the best mitigation goals to reduce or avoid long-term vulnerabilities and to identify the hazards. First, the team reviewed the past hazards that have faced the area and other water agencies in the area and discussed the changes in the community in the previous several years. Then the team decided whether those hazards were still viable today. Some hazards were removed and other hazards were added to the list.

3.6 Review and Propose Mitigation Measures

Meetings were held with the Planning Team to solicit their input and review all of the hazards identified in the Plan. The Team identified what mitigation measures could be utilized to mitigate the hazards in the future for each critical piece of infrastructure. Each meeting focused on specific hazards, BDVWA facilities, risk assessment, mitigation strategy, and plan maintenance.

3.7 Draft Hazard Mitigation Plan

The Consultant for the Agency led the Planning Team and wrote the MHP with the input of the Planning Team, Board of Directors, and public comments into the Draft Plan. The Planning Team members reviewed and commented on the changes, and the consultant revised the plan before the HMP was finalized and adopted by the Board of Directors.

The HMP's will be reviewed against a FEMA-designed Crosswalk. The Crosswalk links the Federal Requirements and identifies the sections in the HMP where the information can be found and a rating as to the level of compliance with the regulation.

3.8 Adopt the Plan

Upon finalizing the HMP by the Planning Team, the HMP was sent to the Agency's Board of Directors for adoption. The 2014 HMP was adopted as written, at the Agency's regularly scheduled Board Meeting on October 28, 2014. The HMP was then sent to the State of California, before being sent to FEMA for approval.

SECTION 4: RISK ASSESSMENT

The goal of mitigation is to reduce the future impacts of a hazard including property damage, disruption to local and regional economies, and the amount of public and private funds spent to assist with recovery. However, mitigation should be based on risk assessment.

The purpose of this section is to describe the methodology taken to understand the hazards in the Agency's service area. There are generally four (4) steps in this process: 1) identify and screen the hazards; 2) profile the hazards; 3) inventory the assets; and 4) estimate losses.

A risk assessment involves measuring the potential loss from a hazard event by assessing the vulnerability of buildings, infrastructure, and people. It identifies the characteristics and potential consequences of hazard areas of the BDVWA that could be affected by a hazard, and the impact on Agency's assets. A risk assessment consists of three components: 1) hazard identification; 2) vulnerability analysis; and 3) risk analysis. Technically, these are three different items, but the terms are sometimes used interchangeably.

4.1 Hazard Identification

During a "brainstorming session" with the Planning Team Members, all hazards were discussed. Some of the items were not used in the plan because the likelihood of such hazards as tsunami, hurricane or tornado affecting this area is very slim at best.

4.1.1 Hazard Screening Criteria

The intent of screening the hazards is to help prioritize which hazard creates the greatest concern to the BDVWA. The process that was implemented is logical and can be universally applied.

A list of the natural hazards to consider was obtained from Federal Emergency Management Agency's (FEMA) State and Local Mitigation Planning How-to Guide: Understanding Your Risks (FEMA 386-1), and guidance from the American Water Works Association. The Agency's Planning Team reviewed each hazard on the list, using their experience with the hazards, and the following conclusions were drawn.

Natural hazards considered by the Agency's Planning Team include the following:

- Earthquake
- Flash Flooding/Mudslides/Landslides
- Terrorist Events
- Wildfire
- Freezing Events
- Power Failure
- Windstorms
- Drought
- Long term
- Volcanoes

The following natural hazards were considered not to affect or be a risk to the Agency by the Planning Team:

- Wildfire
- Windstorms
- Volcanoes
- Drought

4.1.2 Hazard Assessment Matrix

For the 2014 HMP the BDVWA is utilizing a non-numerical ranking system for the hazard screening process. This process consists of generating a non-numerical ranking (similar to high, medium, and low) rating for the probability and impact of each screened hazard. For each of the Agency's screened hazards:

- For **Probability**, the rating options are: Highly Likely, or Somewhat Likely
- For **Impact**, the rating options are: Catastrophic, Critical, or Limited

Table 1:

The screening assessment matrix is used for the Agency's hazards. The hazards have been placed in the appropriate/corresponding box/cell of the corresponding "Hazard Matrix" based on the Planning Team's experience. A subset of this group of hazards is used for the prioritization of the hazards in the following section.

Table 1: Screening Assessment Matrix

<i>Probability</i>	<i>Impact</i>			
		Catastrophic	Critical	Limited
	Highly Likely	Earthquake Flash flooding Mudslides	Freezing Power failure	Long-term Drought
	Likely	Terrorist Event		
	Somewhat Likely		Wind storms	Wildfires Volcanoes

4.1.3 Hazard Prioritization

Using the hazard screening criteria and assessment matrix discussed in the previous two sections, the Agency's Planning Team identified the following two hazards to be the most likely to affect the Agency:

1. **Earthquake:** There are many faults running through the BDVWA's service area. The 1992 Landers earthquake caused catastrophic damage to the Agency's distribution system, wells, and

reservoirs. FEMA replaced portion of the pipelines after the 1992 Landers Earthquake. The local faults could potentially damage 100% of the Agency's critical facilities.

2. **Flash Flooding, Mudslides/Landslides**: Flash flooding is very common in the San Bernardino County Deserts, and happens almost yearly. The last event of flooding was in 2013. The flash flooding was very heavy. Before the 2013 event there was flooding in 2011. These events uncover pipelines in the dirt roads throughout the distribution system. When San Bernardino County Road Department comes in after the flooding to re-cut the dirt roads, the heavy equipment and graders uncover the pipelines, sometimes taking the stem off the "gate-valve," and other times scrape the tops of the pipeline which leaves them exposed and vulnerable to damage. As A/C pipe ages, to become very brittle and tends to rupture when it is moved or disturbed. Once a hole develops in a section of pipe, the pipe will split requiring the entire section of pipe to be replaced.

3. **Freezing Events**: The temperature range in the Morongo Basin is quite extreme. Temperatures range from a low of 20 degrees in the winter to 115 degrees in the summer months. The BDVWA had a major freezing event during the winter of 2007, 2010 and 2013, which froze water in the pipe coming out of a wellhead. Freezing this pipe can cause damage to the pump motor and rupture the pipe.

4. **Terrorist Event**: The largest Marine Base in the world is located within 5 miles of the BDVWA's eastern boundary. A major terrorist event at the Marine Base could have a negative effect on the water supply or damage to the infrastructure of the Agency, leaving the Agency with no power and no water in the system due to ruptured pipelines.

5. **Power Failure**: Power failure that is long lasting will affect the delivery of water from the wells that feed the water system. BDVWA pumps ground water from the underground aquifer into the distribution system as potable water. The water is chlorinated for disinfection before distribution. The Agency has no treatment systems in place. The water treatment is not needed, as the groundwater in the area meets or exceeds the Federal and State of California regulations for potable drinking water. However, without power from the local utility, the potable water in the reservoirs would be exhausted within 3 to 5 days in the winter months, and two days in the summer months.

Table 2

This table presents the summary results of prioritizing each hazard based on the level of risk. The "red-shaded" boxes are the top ranked hazards. As can be seen from the table, the hazards in the "red-shaded" boxes are the BDVWA's priority (or high profile) hazards, while the hazards in the "white" boxes are the less critical/important hazards for the Agency

Table: 2 Hazard Prioritization Matrixes

<i>Probability</i>	<i>Impact</i>		
		Catastrophic	Critical
	Highly Likely	Earthquake Flash Flooding	Freezing
	Likely	Power Failure	
	Somewhat Likely		Terrorist Event Volcanoes Drought Wind Storms

The three highest profile hazards for the BDVWA are earthquake and flash flooding and power failure. While other hazards are profiled in the following sections for completeness, the Agency's priority and focus for the mitigation projects will be for only the two high profile hazards.

4.2 Hazard Profile

Summarizing Risk

Probability: **Highly Likely**

Impact: **Critical**

4.2.1 Earthquake Hazard

Table 3: Hazard Prioritization Matrix (Earthquake)

<i>Probability</i>	<i>Impact</i>			
		Catastrophic	Critical	Limited
	Highly Likely	Earthquake		
	Likely			
	Somewhat Likely			

The following section describes the hazards and then details the historical events associated with this hazard for the Bighorn Desert View Water Agency.

General Definition: An earthquake is a sudden, rapid shaking of the Earth caused by the breaking and shifting of rock beneath the Earth's surface. For hundreds of millions of years, the forces of plate tectonics have shaped the Earth as the huge plates that form the Earth's surface move slowly over, under, and past each other. Sometimes the movement is gradual. At other times, the plates are locked together, unable to release the accumulating energy. When the accumulated energy grows strong enough, the plates break free causing the ground to shake. Most earthquakes occur at the boundaries where the plates meet. However, some earthquakes occur in the middle of plates.

Ground shaking from earthquakes can collapse buildings and bridges disrupt gas, electric, water utilities, and phone service and sometimes trigger landslides, avalanches, flash floods, fires, and huge, destructive ocean waves (tsunamis). Buildings with foundations resting on unconsolidated landfill and other unstable soil, and trailers and homes not tied to their foundations are at risk because they can be shaken off their mountings during an earthquake. When an earthquake occurs in a populated area, it may cause deaths and injuries and extensive property damage.

Earthquakes strike suddenly, without warning. Earthquakes can occur at any time of the year and at any time of the day or night. On a yearly basis, 70 to 75 damaging earthquakes occur throughout the world. Estimates of losses from a future earthquake in the United States approach \$200 billion.

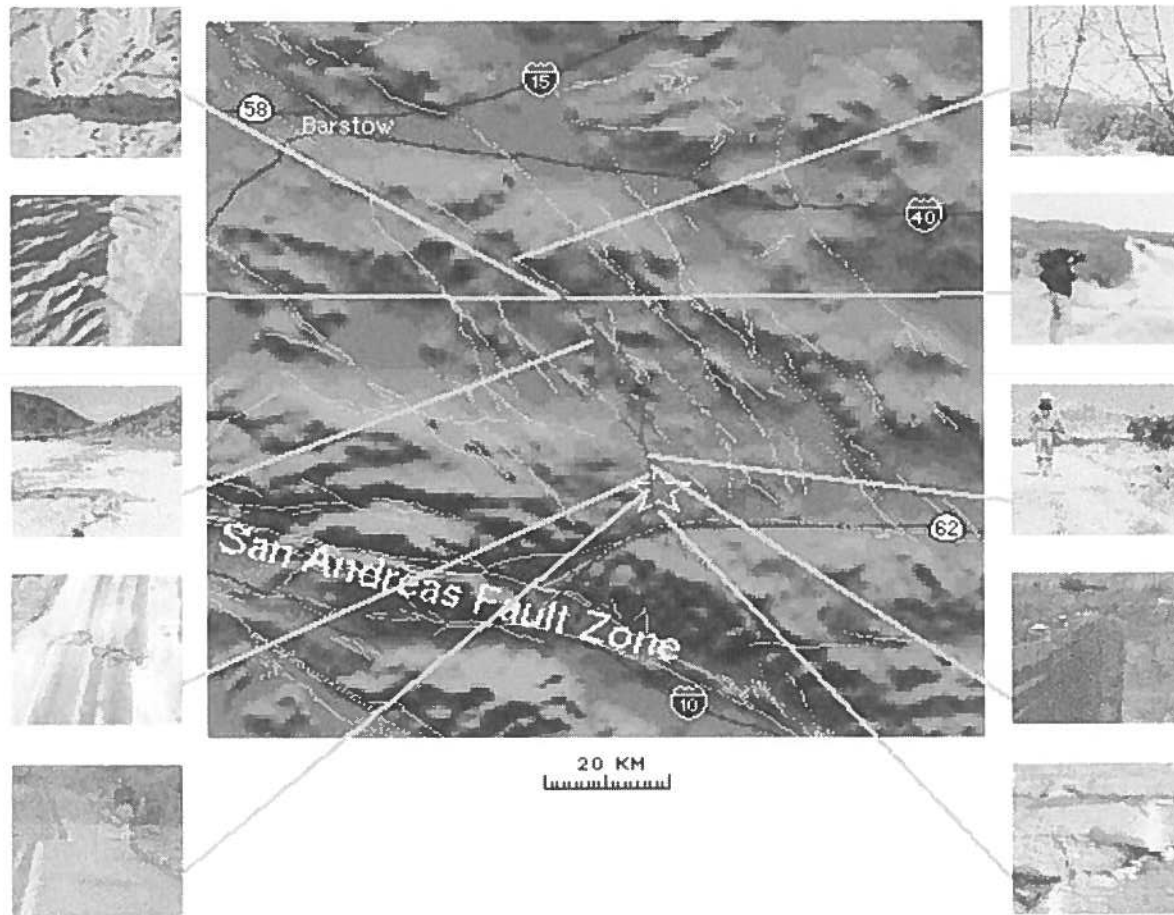
There are 45 states and territories in the United States at moderate to very high risk from earthquakes, and they are located in every region of the country. California experiences the most frequent damaging earthquakes; however, Alaska experiences the greatest number of large earthquakes - most located in uninhabited areas. The Landers Fault is ranked in the top 10 most likely faults to cause major damage in the U.S.

Description: There are several earthquake faults located within the BDVWA's service area.

While there have been many earthquakes in and around the Agency's service area, only one earthquake has actually caused major damage to the Agency's facilities. In 1992, the Landers, Big Bear earthquakes destroyed above ground reservoirs, approximately 75 miles of pipelines in the distribution system, and damaged several groundwater wells. The epicenter of the 1992 Landers earthquake was within the service boundaries of BDVWA.

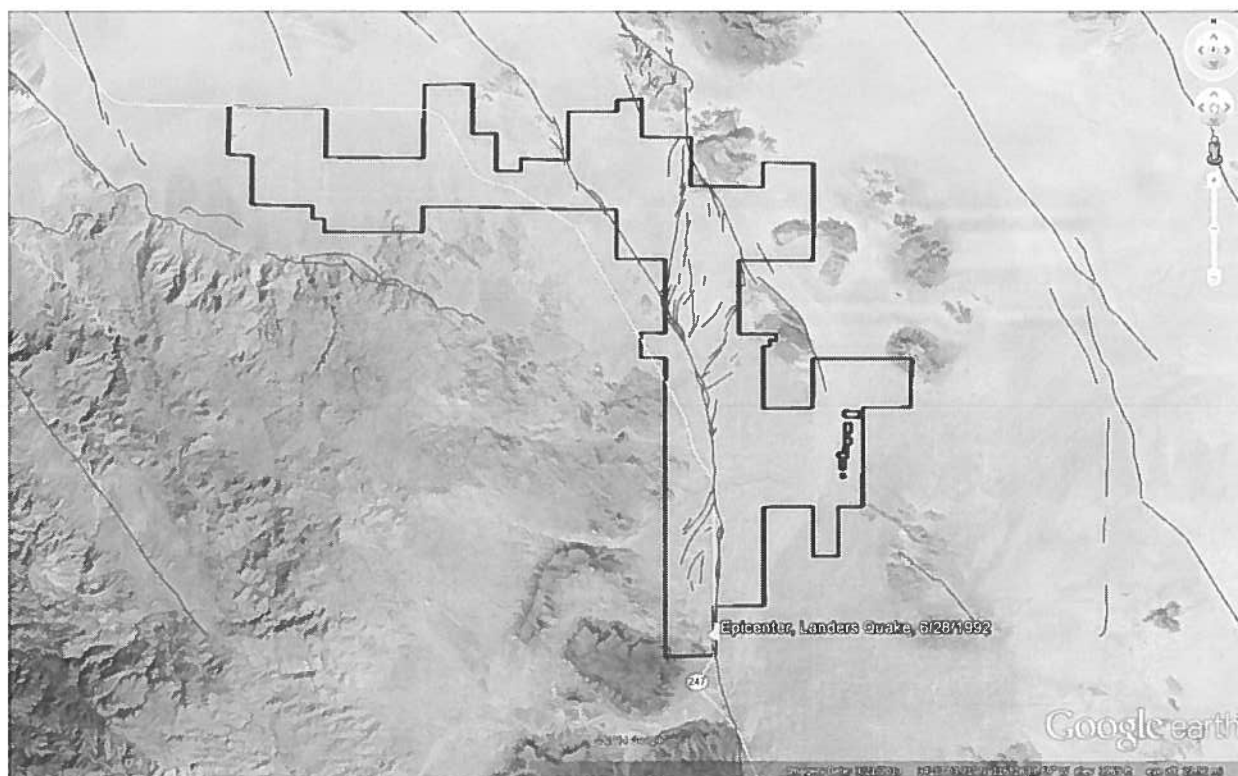
A source for the earthquake profile was a report that describes a new earthquake rupture forecast for California developed by the 2007 Working Group on California Earthquake Probabilities (WGCEP 2007). The Earthquake Working Group was organized in September 2005, by the U.S. Geological Survey (USGS), the California Geological Survey (CGS), and the Southern California Earthquake Center (SCEC) to better understand the locations of faults in California. The group produced a revised, time independent forecast for California for the National Seismic Hazard Maps.

Figure 1: Earthquake Fault Map



Red line is the 1992 Landers Earthquake and Rupture Line. Faults that ruptured in the Landers Earthquake are the Johnson Valley, Homestead Valley, Emerson and Camp Rock

Figure 2: BDVWA's Boundaries with Fault lines



Main fault in picture is the Johnson Valley Fault

Figure: 3 Historic California Earthquakes:

<i>Earthquake Name</i>	<i>Date of Earthquake</i>	<i>Magnitude of Quake</i>	<i>Damage Description</i>
<i>Wrightwood Earthquake</i>	<i>Dec. 8, 1812</i>	<i>7.5</i>	<i>40 deaths.</i>
<i>Cajon Pass</i>	<i>July 22, 1899</i>	<i>5.7</i>	<i>Landslides, heavy damage to buildings in San Bernardino. No deaths.</i>
<i>San Jacinto</i>	<i>Dec. 25 1899</i>	<i>6.5</i>	<i>San Jacinto & Hemet had severe damage. Six deaths. Chimneys thrown down and walls cracked in Riverside.</i>
<i>Elsinore</i>	<i>May 15, 1910</i>	<i>6</i>	<i>Chimney's toppled.</i>
<i>San Jacinto</i>	<i>April 21, 1918</i>	<i>6.8</i>	<i>Most damage in San Jacinto and Hemet. Several injuries, one death. Landslides, cracks in ground, roads, and canals.</i>
<i>North San Jacinto</i>	<i>July 22, 1923</i>	<i>6.3</i>	<i>Chimney's toppled, broken windows, 2 critical injuries, no deaths. San Bernardino hospital and Hall of Records badly damaged.</i>
<i>San Jacinto Terwilliger</i>	<i>March 25, 1937</i>	<i>6.0</i>	<i>Few chimneys damaged, some plaster cracked, a few windows broken. Minimal damage mostly due to sparsely populated area.</i>
<i>Fish Creek Mountains</i>	<i>Oct 21, 1942</i>	<i>6.6</i>	<i>Little damage due to remote location, felt over a large area. Rockslides</i>
<i>Desert Hot Springs</i>	<i>Dec 4, 1948</i>	<i>6.0</i>	<i>Widespread damage. In Los Angeles, a 5,800 gallon water tank split, water pipes broken in Pasadena, at UCLA, and San Diego. Walls cracked in Escondido and Corona.</i>
<i>1954 San Jacinto</i>	<i>March 19, 1954</i>	<i>6.4</i>	<i>Minor widespread damage. Parts of San Bernardino experienced a temporary blackout.</i>
<i>Borrego Mountain</i>	<i>April 8, 1968</i>	<i>6.5</i>	<i>Largest most damaging earthquake in 16 years. Damage across most of Southern California. Landslides, huge boulders thrown.</i>
<i>Lytle Creek</i>	<i>Sept. 12, 1970</i>	<i>5.2</i>	<i>Landslides, rock falls, 4 injuries. San Bernardino radio station knocked off the air.</i>
<i>White Wash</i>	<i>Feb 25, 1980</i>	<i>5.5</i>	<i>Landslides. Windows and dishes broken. Fire broke out in Rancho Mirage due to a gas line rupture in an empty home.</i>
<i>1988 Upland and 1990 Upland</i>	<i>June 26, 1988 and Feb 28, 1990</i>	<i>4.7 and 5.4 respectively</i>	<i>Landslides, damage to San Antonio Dam, 38 minor injuries. Public-\$4.87M; business-\$4.7M; private-\$2.4M; total-\$12M; 501 homes and 115 businesses damaged or destroyed.</i>
<i>North Palm Springs</i>	<i>July 8, 1986</i>	<i>5.6</i>	<i>29 injuries. Destruction or damage of 51 homes. Landslides. Damage over \$4M.</i>
<i>Joshua Tree</i>	<i>April 22, 1992</i>	<i>6.1</i>	<i>Minor injuries. Near Landers</i>
<i>2 separate earthquakes: Landers and Big Bear</i>	<i>June 28, 1992</i>	<i>Landers 7.3 Big Bear - 6.4</i>	<i>Landslides in San Bernardino Mountains. Near Landers. Substantial damage in Big Bear and Landers. Landers earthquake was the largest earthquake in Southern California in 40 years. Earthquake ruptured 5 separate faults. Total rupture length was 53 miles. One death, 402 injuries. Private-\$47.5M; business-\$17M; public-\$26.6M; total-\$91M; 77 homes destroyed, 4,369 homes damaged, 139 businesses damaged.</i>
<i>Hector Mine</i>	<i>Oct. 16, 1999</i>	<i>7.1</i>	<i>Very remote location. Ruptured in both directions from the epicenter. Near BDVWA</i>

Table 4: Earthquake History

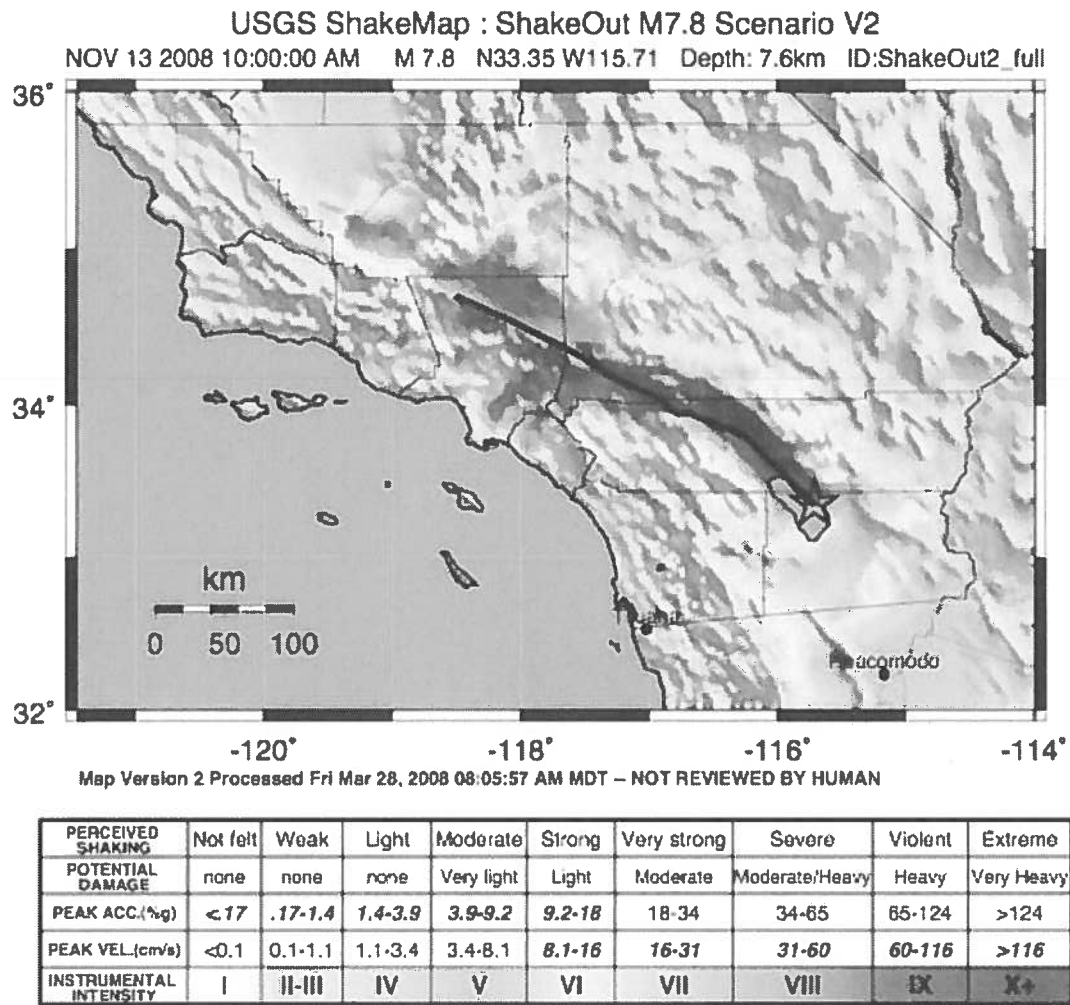


Table 4 presents the earthquake profile findings for the BDVWA service area. The ground motion findings indicate the peak ground acceleration (PGA) within the Agency's service area could potentially exceed 65 percent. Typically, any acceleration over 3 percent is considered excessive. Also, a map shown in **Table 4** illustrates that there is a 97% probability that Southern California will have a 7.6 scale earthquake within the next 30 years, per USGS.

Since 2005, the BDVWA has had no damages to facilities resulting from earthquakes. Table 8 summarizes the occurrences, impact, and costs of this hazard.

Summarizing Risk

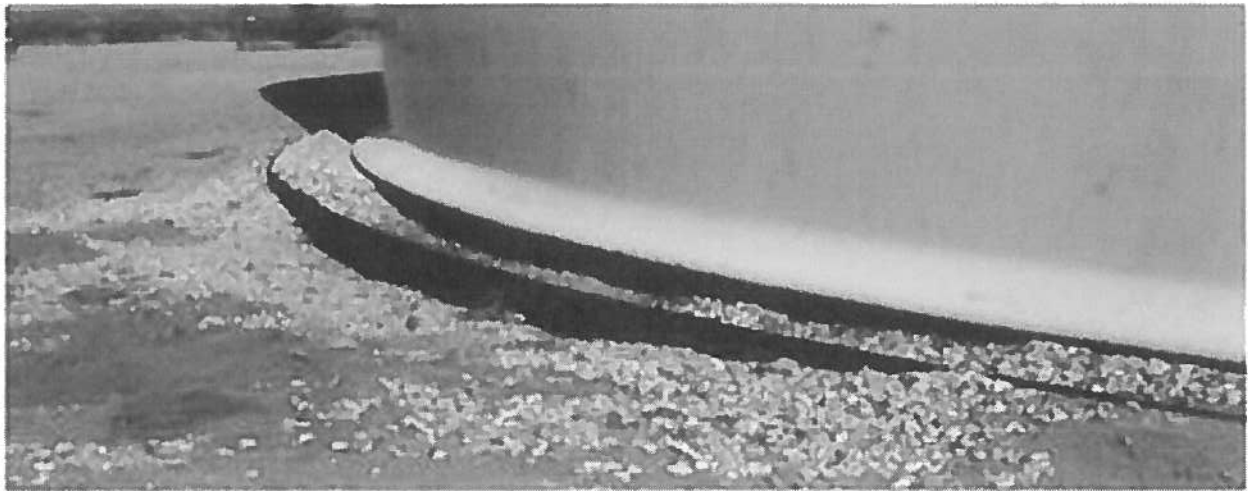
Probability: **Highly Likely**

Magnitude/Severity: **Catastrophic**

1992 Landers Earthquake, Bighorn Desert View Water Agency Reservoir's



1992 Landers Earthquake, Bighorn Reservoir, with Elephant footing of the bottom of the tank



Roadway after Earthquake Repair in 1992



4.2.2 Freezing

Table 5

<i>Probability</i>	<i>Impact Freezing Events</i>			
		Catastrophic	Critical	Limited
	Highly Likely			
	Likely	Freezing		
	Somewhat Likely			

Freezing Events: The temperature range in the Morongo Basin is quite extreme. Temperatures range from a low of 20 degrees in the winter to a high of 115 degrees in the summer months. The BDVWA had a major freezing event during the winter of 2010 and 2013, which froze water in the pipe coming out of a wellhead. Freezing can cause damage to the pump motor and rupture the pipe.

Mitigation:

Purchase pipeline heaters to keep the water in the wellhead and output pipeline from freezing.

4.2.3 Power Failure

Table 6

<i>Probability</i>	<i>Impact Power Failure</i>			
		Catastrophic	Critical	Limited
	Highly Likely	Power Failure		
	Likely			
	Somewhat Likely			

Power Failure Definition: Long-term power failures affect the delivery of water from the wells that feed the water system. BDVWA pumps ground water from the underground aquifer into the distribution system as potable water and has no treatment systems in place. The water treatment is not needed as the groundwater in the area meets or exceeds the Federal and State of California regulations for potable drinking water. However, without power from the local utility, the potable water in the reservoirs would be exhausted within 3 to 5 days in the winter months and two days in the summer months.

Mitigation:

BDVWA will need to purchase generators for back-up power to be able to power up wells and booster station in the event of a long-term power failure.

Generator sizing:

See attachment “C”

4.2.4 Long Term Drought Hazard

The following section describes the hazard and then details the historical events associated with this hazard for the Bighorn Desert View Water Agency.

Table 7: Hazard Prioritization Matrix (Drought)

<i>Probability</i>	<i>Impact Long Term Drought</i>			
		Catastrophic	Critical	Limited
	Highly Likely		Drought	
	Likely			
	Somewhat Likely			

General Definition: A drought is a period of drier-than-normal conditions that results in water-related problems. Precipitation (rain or snow) falls in uneven patterns across the country. When no rain or only a small amount of rainfalls, soils can dry out and plants can die. When rainfall is less than normal for several weeks, months, or years, the flow of streams and rivers declines, water levels in lakes and reservoirs fall, and the depth to water in wells increases. If dry weather persists and water supply problems develop, the dry period can become a drought. The first evidence of drought usually is seen in records of rainfall. Within a short period of time, the amount of moisture in soils can begin to decrease. The effects of a drought on flow in streams and rivers or on water levels in lakes and reservoirs may not be noticed for several weeks or months. Water levels in wells may not reflect a shortage of rainfall for a year or more after the drought begins. A period of below-normal rainfall does not necessarily result in drought conditions. Some areas of the United States are more likely to have droughts than other areas. In humid or wet regions, a drought of a few weeks is quickly reflected in a decrease in soil moisture and in declining flow in streams. In arid or dry, regions, people rely on groundwater and water in reservoirs to supply their needs. They are protected from short-term droughts but may have severe problems during long dry periods because they may have no other water source if wells or reservoirs go dry.

Description: Because the Agency is in the business of supplying the public with potable water, drought can be a disastrous hazard to the any water provider. A drought is defined as a series of years with less than average rainfall and typically lasts seven years. The BDVWA is currently experiencing a drought that started in 1998.

Southern California has a history of severe droughts. There have been six severe extended droughts within the last 400 years (the most severe drought lasted from approximately 1650 to 1700). The U.S. Weather Service is forecasting 20 more years of below average rainfall.

The 2009 California Water Plan states that Water Year 2009 was the third consecutive dry year for the State. Because of losses caused by this drought, the U.S. Department of Agriculture in September designated all of the counties within the San Joaquin River, Tulare Lake, and Central Coast Hydrologic Regions as either Primary Natural Disaster Areas or Natural Disaster Areas (statewide total was 21 counties and 29 counties, respectively). The State entered the 2009-2010 Water Year with its key supply reservoirs at only 68 percent of average.

The fundamental drought impact to water agencies is a reduction in available water supplies. As a result, historic occurrences of drought have encouraged water agencies to review the reliability of their water supplies and to initiate planning programs addressing identified needs for improvement. In addition, public and media interest in droughts fosters heightened awareness of water supply reliability issues in the Legislature. More than 50 drought-related legislative proposals were introduced during the severe but brief 1976-77 drought. About one-third of these eventually became law. Similar activity on drought-related legislative proposals was observed during the 1987-92 droughts. One of the most significant pieces of legislation was the 1991 amendment to the Urban Water Management and Planning Act, in effect since 1983, which requires water suppliers to estimate available water supplies at the end of one, two, and three years, and to develop contingency plans for shortages of up to 50 percent. BDVWA has a Water Master Plan that was completed and adopted by the Board of Directors in 2007. Since, BDVWA is a small agency BDVWA is included in the Mojave Integrated Regional Water Master Plan (IRWMP). Mojave and the agencies serving the local area, presents water supply to demand comparisons through 2030. The 2014 IRWMP was completed by June 30, 2014 and will update any demand and supplies documented in any other plans and will also require all water agencies to reduce their water demand by 20 percent by the year 2020. The plan also presents water supply to demand comparisons for single dry to multiple dry year scenarios. The comparisons show that the Agency has adequate supply through 2030.

If the current drought extends for the period that the U.S. Weather Service is currently forecasting, the Agency will have difficulty in meeting its water supply demands without additional supplies. The Bunker Hill groundwater basin is experiencing the lowest groundwater levels in 40 years and is currently in overdraft. If this condition continues, the Agency will need to purchase more State Project Water to supply the demand for the customer base. Table 9 summarizes the occurrences, impact, and costs of this hazard.

Table 8: State of California Drought History

Date of Event	Type of Damage	Amount of Damage	Statewide or Local
1976-1977	Annual statewide runoff dropped 21% below average.	1976-\$888.5M; 1977-\$1.775M; TOTAL-\$2.7B	Various
1987-1992	Annual statewide runoff dropped 27% below average. Twenty-three counties had declared local drought emergencies by the end of 1991.	SWP terminated services to agricultural contractors and provided only 10% of requested urban deliveries. Appropriate \$34.8M from the General Fund to the Department for financial assistance to local water suppliers for emergency drought-relief water supply, technical water conservation assistance, and operation of the Department's Drought Information Center.	Various
1998-2000	San Bernardino National Forest - dead and dying trees, bark beetle infestations.	\$12,100 crop damage.	Various
2002 - Current	Ongoing drought of historical proportions	Food crop damage - ongoing, in the billions Wildlife damage – ongoing Lost revenue to water agencies though-out the State - ongoing	Statewide

4.2.5 Flash Flooding Hazard

Table 9: Hazard Prioritization Matrix (Flash Flooding)

Probability	<i>Impact Flash Flooding</i>			
	Highly Likely	Catastrophic	Critical	Limited
	Likely	Flash Flooding		
	Somewhat Likely			

The following section describes the hazard and then details the historical events associated with this hazard for the Bighorn-Desert View Water Agency.

General Definition:

An unusually heavy rain in a concentrated area, over a short or long period of time

Description:

Flash flooding can occur in the summer as well as the winter. In summer there is the Monsoon Season in June and July, and sometimes in August. During Monsoon heavy rainstorms that form in the Gulf of Mexico move into the area of Arizona, Texas, and the Deserts of California. These storms bring powerful winds and heavy rains within a short period of time and can dump two to five inches of rain within a half-hour period. There is no flood control infrastructure in this area of San Bernardino County, California. Most roads in the BDVWA service area are unpaved, dirt roads.

FEMA Flood Inundation Mapping: There is no FEMA Flood Inundation Map for the community of Landers and the surrounding community at the time of this writing.

No Flood Map Available

2014 Flashflood damage to BDVWA Pipeline



2014 Flash Flooding in BDVWA Service Area; after pipeline Repair





2014 Flashflooding in BDVWA (Note driver abandoned vehicle at left-center of photograph)



2014 Flash flooding in BDVWA Service Area

Summarizing Risk

Probability: **Highly Likely**

Magnitude/Severity: **Limited**

4.2.6 Flooding Hazard

Table 10: Hazard Prioritization Matrix (Flooding)

<i>Probability</i>	<i>Impact</i>		
		Catastrophic	Critical
	Highly Likely		
	Likely		Flooding
	Somewhat Likely		

The following section describes the hazard and then details the historical events associated with this hazard for the Bighorn-Desert View Water Agency.

General Definition: A flood, as defined by the National Flood Insurance Program is: A general and temporary condition of partial or complete inundation of two or more acres of normally dry land area or of two or more properties (at least one of which is your property) from:

The collapse or subsidence of land along the shore of a lake or similar body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels that result in a flood.”

Floods can be slow or fast rising but generally develop over a period of days. Mitigation includes any activities that prevent an emergency, reduce the chance of an emergency happening, or lessen the damaging effects of unavoidable emergencies. Flooding tends to occur in the summer and early fall because of the Monsoon and is typified by increased humidity and high summer temperatures. The FEMA standard for flooding is the “100-year flood,” which is used as a benchmark to establish a standard control in communities throughout the country. Thus, the 100-year flood is also referred to as the “regulatory” or “base” flood. Actually, there is little difference between a 100-year flood and what is known as the 10-year flood. Both terms are really statements of probability that scientists and engineers use to describe how one flood compares to others that are likely to occur. In fact, the 500-year flood and the 10-year flood are only a foot apart on flood elevation - which means that the elevation of the 100-year flood falls somewhere in between. The term 100-year flood is often incorrectly used and can be misleading. It does not mean that only one flood of that size will occur every 100 years. What it actually means is that there is a one percent chance of a flood of that intensity and elevation happening in any given year. In other words, it is the flood elevation that has a one percent chance of being equaled or exceeded each year. And it could occur more than once in a relatively short period of time. (By comparison, the 10-year flood means that there is a ten percent chance for a flood of its intensity and elevation to happen in any given year.)¹

Flood Map

Due to the low population of this area, there are no FEMA Flood maps for this area of San Bernardino County. San Bernardino County Flood Control maintains no information on flooding events in this area.

In recent history, there have been 17 floods, storms, and flash floods in the Agency's general service area. Table 11 summarizes the occurrences, impact, and costs of this hazard.

No Flood Map Available

Table 11: California Historical Flooding

Date of event	Type of Damage	Amount of Damage	Statewide or Local
Dec-55	74 deaths	\$200 M	State wide
Apr-58	13 deaths, several injuries	\$20 M, plus \$4 M agricultural	State wide
Fall 1965	Abnormally heavy and continuous rainfall.	Public - \$5.8 M; private \$16.0 M; Total - \$21.8 M	Riverside, San Bernardino, Ventura, San Diego Counties
Winter 1966	Abnormally heavy and continuous rainfall.	Public - \$14.6 M; private \$14 M; Total - \$28.7 M	Various
Winter 1969	Storms, flooding, 47 dead, 161 injured. An alluvial flood and debris flow on Deer Creek in San Bernardino County killed 11 people.	Public - \$185 M, Private - \$115 M; Total - \$300 M	Various
Sep-76	High winds, heavy rains, and flooding	Public - \$65.7 M; private - \$54.3 M; Total - \$120 M	Imperial, Riverside, San Bernardino, San Diego Counties
Winter 1978	14 dead, at least 21 injured	Public - \$73 M; private - \$44 M; Total - \$117 M; 2,538 homes destroyed	Various
Jul-79		Public - \$3.0 M; private - \$22.9 M; Total - \$25.9 M	Riverside
Feb-80	Rain, wind, mud slides, and flooding		Various
Winter 82-83	Heavy rains, high winds, flooding, levee breaks	Public - \$151 M; private - \$159 M; agricultural - \$214 M; Total - \$524 M	Various
Aug-83	High winds, storms, and flooding; 3 deaths	Public - \$10 M, private - \$15 M, agricultural - \$10 M; Total - \$35 M	Inyo, Riverside, San Bernardino Counties
Feb-92	Flooding, rainstorms, mud slides; 5 deaths	Public - \$95 M; private - \$18.5 M; business - \$8.5 M, agricultural - \$1.5 M; Total - 123 M	Los Angeles, Ventura, Kern, Orange, San Bernardino Counties
Dec-92	Snow, rain, and high winds, 20 deaths, 10 injuries	Total - \$600 M	Various
Jan-95	11 deaths	Public - \$299.6 M; individual - \$128.4 M; businesses - \$58.4 M; highways - \$158 M; ag - \$97 M; Total - \$741.4 M; damage to homes: major-1,883; minor-4, 179; destroyed-370.	Various
Feb-95	17 deaths	Public - \$190.6 M; individual - \$122.4 M; business - \$46.9 M; highways - \$79 M; ag -\$651.6 M; Total - approximately \$1.1 billion; damage to homes: major-1,322; minor-2,299; destroyed-267	57 counties (all except Del Norte)
Feb-98	17 deaths	\$550 M	Various
Dec-03	15 deaths	\$750 M	San Bernardino – Waterman Canyon from Lytle Creek River and Highland.

4.3 Inventory Assets

This section provides an overview of the assets in the Bighorn-Desert View Water Agency and the hazards to which these facilities are susceptible.

4.3.1 Population

The total population of Bighorn-Desert View Water Agency is currently approximately 3,042

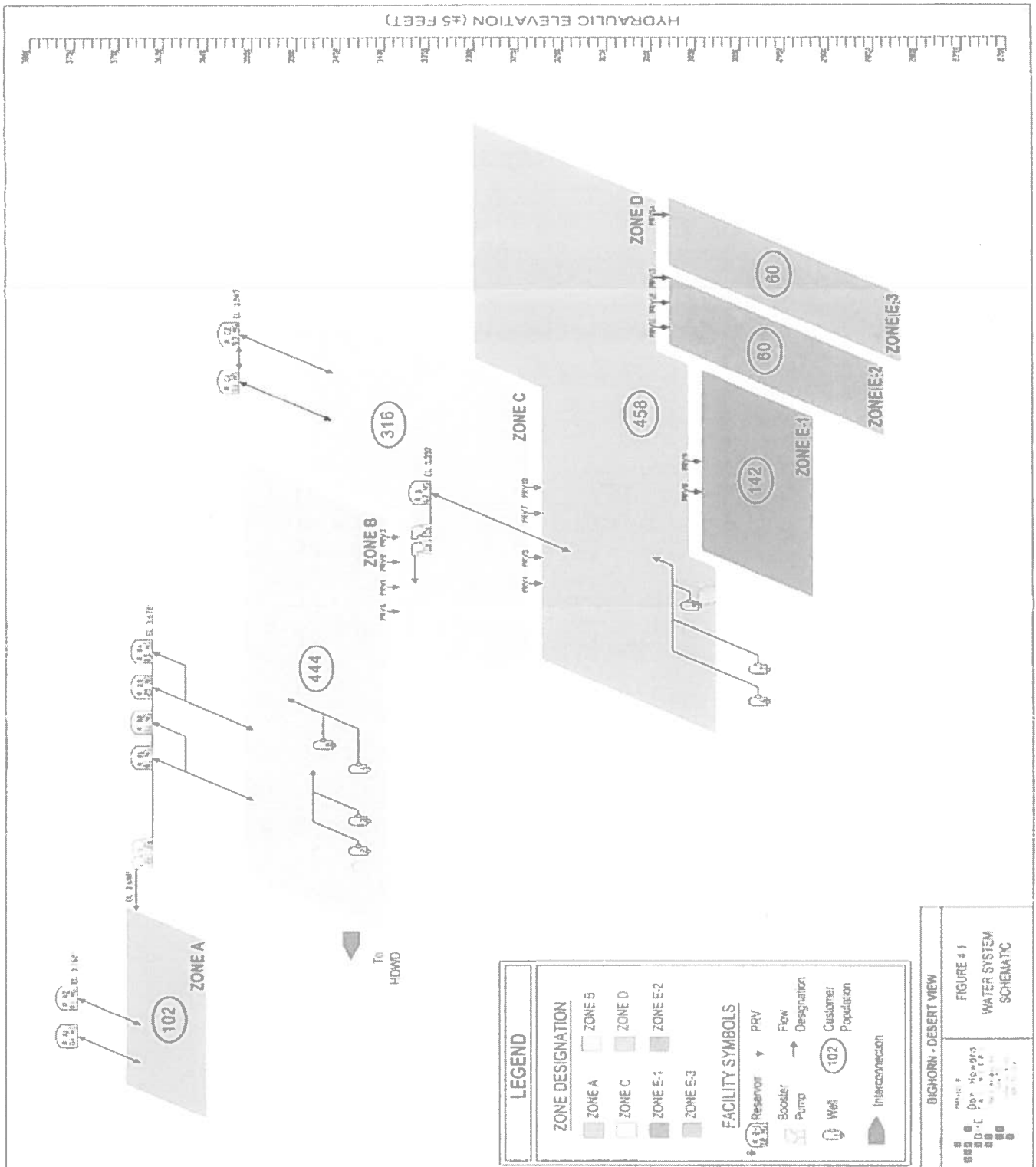
4.3.2 Buildings

As of August 2014, the BDVWA operates and maintains the following facilities:

- 7 pressure zones
- Existing reservoirs with a total storage capacity of 2,402,000million gallons
- Existing wells with a total pumping capacity of 3,548,160 gallons per day
- The Agency currently has no water Treatment Facilities
- Approximately 100 miles of distribution and transmission facilities (sizes 4 inches to 8 inches in diameter).

Figure 4 is a map of the Agency's facilities and how the facilities flow to provide portable drinking water to the residents of the area.

Figure 4 Pumping System Schematic with facilities location, wells, reservoir:



Bighorn Desert View Water Agency delivers potable water service to Landers, Flamingo Heights, and Johnson Valley is provided by the Bighorn-Desert View Water Agency. BDVWA currently serves more than 6,800 residents through approximately 1,850 connections.

Water demands in the service area vary throughout the year with maximum daily summer demands estimated at 1.9 Acre Feet or 0.63 MG, in July. The BDVWA currently has one source of water, ground water, pumped from the underground aquifer. There is an Intertie with Hi-Desert Water District that could be utilized in an emergency. Don't need to tell them that it is inactive

4.3.3 Critical Facility List

This section provides a listing of the critical facilities in Bighorn-Desert View Water Agency. The primary contact for all the BDVWA facilities is the following:

Primary Contact:

Marina West, General Manager
Phone: 760-36 4-2315
bdvwd2@mindspring.com

Because the Agency's exact facilities location is extremely sensitive, especially due to increased concerns for National Security, only general locations have been included in this section.

Critical Facilities:

As deemed by the Planning Team, all critical facilities are listed on the following pages.

To minimize any hazard mitigation potential from the Agency's newly constructed facilities, all future reservoirs will be constructed adequately for existing seismic conditions, which includes a swivel joint for the inlet/outlet to allow movement and anchoring the tank down with bolts similar to a large concrete footing. In addition, all buildings will meet the current seismic building codes.

Table 12: Critical Facilities List

Plants A-1 and A-2

Two reservoirs

Size: 35,000 SF

Facility Description: Water Storage

Bighorn and Hi-Desert Water Intertie

Water Plant

Size: 2,000 SF

Facility Description: Location the BDVWA can deliver water to Hi-Desert Water or Hi-Dessert Water can supply water to BDVWA. Intertying both agencies' water supplies together

Wells 2 and 3

Size: 25,000 SF

Facility Description: two water wells at this site

Well 4**Water well and Water Hauling Station**

Size: 80,000 SF

Facility Description: Water Well and Water Hauling Station

Plant "C"**Water Reservoir**

Size: 10,000 SF

Facility Description: Water Storage Tank C-1 and C-2

Well Site 10**Water Plant**

Size: 25,000 SF

Facility Description: Water Well

Well 9**Water Plant**

Size: 10,000 SF

Facility Description: Water Well

Well 6 and 7**Water Plant**

Size: 25,000 SF

Facility Description: Two Water wells

Water Well 3-A**Water Plant**

Size: 10,000 SF

Facility Description: Water well, being turned over to BDVWA by the County of San Bernardino

Water Well and Reservoir**Water Plant**

Size: 120,000 SF

Facility Description: Water Storage and water well, being turned over to BDVWA from County of San Bernardino

Well 8**Water Plant**

Size: 100,000 SF

Facility Description: Water Well

“C” Tanks, Reservoirs

Water Reservoir

Size: 100,000 SF

Facility Description: Water Storage

BDVWA Yard

Water Plant

Size: 120,000 SF

Facility Description: Water Well, Office and Maintenance Buildings, four “B” Water Reservoir 1, 2, and 3

“D” Tanks, Reservoirs

Size: 80,000 SF

Facility Description: Water Storage, warehouse and Board Room

Pipeline System locations:

Chaparral Street

Water pipeline

Size: 6 and 8 inch

Length: 200 feet

Butterfly between Tahoe and Cambria Streets

Water Pipeline

Size: 6-inch AC pipe

Length: 500 feet

Starlight and Tanger

Water Pipeline

Size: 8-inch AC pipe

Length: 5,000 feet

Mira Street between Old Woman Springs and Geronimo

Water Pipeline

Size: 8-inch AC pipe

Length: 5,000 feet

Lodi Street, between Delgada and BDVWA Boundary

Water Pipeline

Size: 6-inch AC pipe

Length: 200 feet

Hopi Street

Water pipeline

Size: 6-inch AC

Length: 100 feet

Marmac and Wamego Streets

Water Pipeline

Size: 6-inch AC

Length: 1,200

Oasis Trail, between Novato Road and New Dixie Line Road

Water Pipeline

Size: 8-inch AC

Length: 200 feet

Geronimo Trail, between Desert View and Novato

Water pipeline

Size: 6-inch AC

Length: 200 feet

Acoma, South of Desert View

Water Pipeline

Size: 4-inch

Length: 200 feet

Acoma Trail, Between Navato Road and Desideria

Water Pipeline

Size: 8-inch AC

Length: 2,000 feet

All areas between BDVWA Boundary on the east and North, Geronimo Trail on the West and New Dixie Line on the South

Water Pipeline

Size: 8-inch AC

Length: 8,500 feet

Cambia Avenue Between Gavilan Road and Cubero Road

Water pipeline

Size: 8-inch AC

Length: 1,000 feet

Fortuna Avenue and Camulos

Water Pipeline

Size: 6-inch

Length: 500 feet

Linn Road, between Acoma Trail and Cherokee Trail

Water Pipeline

Size: 6-inch AC

Length: 1,500 feet

Lum Lane on the north, Olga Lane on the West, Dusty Mile Road on the East and Encantado on the South

Water Pipeline

Size: 8-inch and 6-inch

Length: 2.1 miles

Kickapoo Trail, between Happy Trail and Shannon Road

Water Pipeline

Size: 6-inch AC

Length: 200 feet

Lin Road, between Acoma Trail and Deer Road

Water Pipeline

Size: 8-Inch AC

Length: 200 feet

Ming Road, between Dusty Mile and Jemez Trail

Water Pipeline

Size: 6-inch AC

Length: 500 feet

Dusty Mile between By Pass Road and Shannon Road

Water Pipeline

Size: 8-inch

Length: 1,000 feet

Shawnee Trail, between Mesquite and Ming Road

Water Pipeline

Size: 8-inch

Length: 1,000 feet

4.4 Vulnerability Assessment

The team reviewed pictures of each of the Agency's facilities. The pictures were overlaid on a map of the area, the Team Members each having a long history in the area. The Team members have the knowledge of disasters in and around the community and have a vast knowledge of Emergency Management. The Team members have the knowledge to assess the system and give valuable input into the assessment and vulnerabilities to the system.

4.4.1 Methodology

Ranking the facilities by their importance to the Agency's production of water and using this ranking to develop a percentage of importance for each facility, estimated the annual economic impacts. This percentage was applied to the projected 2013-2014 annual water revenue for the Agency \$444,000.00 to obtain the annual economic impact for each facility.

4.4.2 Dam Inundation Vulnerability Analysis

Population: None

Critical Facilities: There are no earthen or concrete dams or any other type of dam in the BDVWA Service area.

4.4.3 Long Term Drought Vulnerability Analysis

Population: Approximately 100% of the Agency's population is vulnerable.

Critical Facilities: Approximately 100% of the BDVWA's critical facilities are vulnerable.

The specific critical facilities vulnerable in Bighorn-Desert View Water Agency are:

All wells are critical to drought because they supply the water for the Agency. During a long-term drought, the levels in the wells become lower and therefore, more pumping is required (increasing the pumping costs) and many wells are not able to produce as much water during the peak demands. Also, since the water in the underground aquifer is dropping during a drought period, the well shaft and bowels need to be lowered to bring the pump deeper into the aquifer to produce water.

Of the critical facilities, 9 are wells. This generates the 100% of the well sites being at risk. Reservoirs and pipelines are NOT critical in a drought.

Estimated Losses: The economic loss resulting from this hazard is approximately \$20,000 a month.

The loss from damage to structures from this hazard is approximately \$0.

The BDVWA adopted Ordinance No. 11P-01, Water Conservation Plan on August 23, 2011, which, established the policy and conservation measures needed during drought conditions. Also, California Governor, Jerry Brown has declared a Water State of Emergency for the entire State, mandating water conservation by all residents.

4.4.4 Earthquake Vulnerability Analysis

Population: Approximately 100% of the BDVWA's population is vulnerable.

Critical Facilities: Approximately 100% of the BDVWA's critical facilities are vulnerable.

All facilities are vulnerable in the event of a major earthquake within the Bighorn-Desert View Water Agency Boundaries. There are many faults that affect the Agency's facilities: Landers, Johnson Valley, Homestead Valley, Emerson and Camp Rock Faults, and many more are close or run through the BDVWA boundaries, such as the Big Bear, Garlock and San Andreas Fault. If any of these faults rupture it would have a negative effect on the BDVWA's facilities.

Estimated Losses: The economic loss resulting from this hazard is approximately \$800,000. The loss from damage to structures from this hazard is approximately \$6.5 Million. Just came up with a number, should it be higher or lower

Losses are estimated assuming:

1. The projected 2014/2015 BDVWA revenue was used to estimate the lost annual revenue.
2. The BDVWA could have 6 months of lost revenue from the earthquake.
3. All the Agency's critical facilities are at risk, including 80% of the BDVWA's pipelines.
4. Without the critical facilities no revenue can be generated for the BDVWA.

The percent of Agency's population at risk: 100%

4.4.5 Flash Flooding Vulnerability Analysis

Population: Approximately 50% of the BDVWA's population is vulnerable.

Critical Facilities: Approximately 50% of the BDVWA's critical facilities are vulnerable.

4.4.6 Flooding Vulnerability Analysis

Population: Approximately 0% of the Agency's population is vulnerable.

Critical Facilities: Approximately 0% of the Agency's critical facilities are vulnerable.

The BDVWA is not a member of the National Flood Insurance Program (NFIP) and is fortunate to not have any identified Repetitive and Severe Repetitive Loss properties. However, the Town of Yucca Valley and the City of 29 Palms are members of the NFIP. The Agency does not have any flat areas that are susceptible to flooding. The Agency is susceptible to flash flooding only.

4.4.7 Wildfires Vulnerability Analysis

Population: Approximately 20% of the Agency's population is vulnerable.

Critical Facilities: Approximately 20% of the BDVWA's critical facilities are vulnerable.

Although wildfires in the desert communities are not common desert wildfires do occur. On July 9, 2006, lightning ignited natural vegetation in several locations known as Sawtooth, Water and Ridge fires and burnt two-miles into Yucca Valley. The three separate fires joined into one fire becoming the Sawtooth Fire, which destroyed over 300 structures.

4.4.8 Potential Loss Estimation

Table 13 summarizes the economic impacts on the critical facilities for the BDVWA.

Table 13: Economic Impacts on Critical Facilities for the Agency

Plant A-1 and A-2

Facility Replacement Cost: \$ 1.5 million

Estimated Economic Impact: \$2,500.00 a month in lost sales

Description of Economic Impact: loss of water sales

Bighorn/Hi Desert Intertie

Facility Replacement Cost: \$40,000

Estimated Economic Impact: \$1,500.00 a month in lost sales

Description of Economic Impact: loss of water sales

Well 2 and 3

Facility Replacement Cost: \$1.6 million

Estimated Economic Impact: \$2,500 a month in lost sales

Description of Economic Impact: loss of water sales

Well 4

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$2,800 a month in lost sales

Description of Economic Impact: loss of water sales

Plant "C"

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$2,500 a month in lost sales

Description of Economic Impact: Loss of water sales

Well Site 10

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$2,500 a month in lost sales

Description of Economic Impact: loss of water sales

Well 9

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$ 2,500 a month in lost sales

Description of Economic Impact: Loss of water sales

Well 6 and 7

Facility Replacement Cost: \$1.6 million

Estimated Economic Impact: \$5,000a month in lost sales

Description of Economic Impact: loss of water sales

Well 3-A

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$2,500 a month in lost sales

Description of Economic Impact: loss of water sales

County Well and Storage Site

Facility Replacement Cost: \$1.0 million

Estimated Economic Impact: \$3,500 a month in lost sales

Description of Economic Impact: loss of water sales

Well 8

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$2,500 a month in lost sales
Description of Economic Impact: loss of water sales

“C” Tanks, Reservoir’s

Facility Replacement Cost: \$800,000

Estimated Economic Impact: \$2,500 a month in lost sales

Description of Economic Impact: loss of water sales

“D” Tanks, Reservoir’s Storage, Board Room

Facility Replacement Cost: \$3.5 million

Estimated Economic Impact: \$4,500 a month in lost sales

Description of Economic Impact: loss of water sales

“B” Tanks, Reservoir’s Administrative office, yard, Maintenance shop, Fuel

Facility Replacement Cost: \$4.3 million

Estimated Economic Impact: \$5,500 a month in lost sales

Description of Economic Impact: loss of water sales

Chaparral Street

Facility Replacement Cost: \$ 85,000

Estimated Economic Impact: \$1,500 a month in lost sales

Description of Economic Impact: loss of water sales

Butterfly Street

Facility Replacement Cost: \$85,000

Estimated Economic Impact: \$1,500 a month in lost sales

Description of Economic Impact: loss of water sales

Starlight and Tanger

Facility Replacement Cost: \$100,000

Estimated Economic Impact: \$1,500 a month in lost sales

Description of Economic Impact: loss of water sales

Cambia Ave.

Facility Replacement Cost: \$250,000

Estimated Economic Impact: \$1,200 a month in lost sales

Description of Economic Impact: loss of water sales

Fortuna

Facility Replacement Cost: \$55,000

Estimated Economic Impact: \$1,200 a month in lost sales

Description of Economic Impact: loss of water sales

Linn Road

Facility Replacement Cost: \$80,000

Estimated Economic Impact: \$1,200 a month in lost sales

Description of Economic Impact: loss of water sales

Lum Lane

Facility Replacement Cost: \$300,000

Estimated Economic Impact: \$1,800 a month in lost sales

Description of Economic Impact: loss of water sales

Kickapoo Trail

Facility Replacement Cost: \$85,000

Estimated Economic Impact: \$1,800 a month in lost sales

Description of Economic Impact: loss of water sales

Lin Road/Dusty Mile/ Jemez Trail

Facility Replacement Cost: \$90,000

Estimated Economic Impact: \$1,800 a month in lost sales

Description of Economic Impact: loss of water sales

Ming Road/Dusty Mile/Jemez

Facility Replacement Cost: \$87,500.00

Estimated Economic Impact: \$3,609 a month in lost sales

Description of Economic Impact: loss of water sales

Dusty Mile/Pass Road/Shannon

Facility Replacement Cost: \$80,000

Estimated Economic Impact: \$1,500 a month in lost sales

Description of Economic Impact: Loss of water sales

Shawnee Trail

Facility Replacement Cost: \$80,000

Estimated Economic Impact: \$1,200 a month in lost sales

Description of Economic Impact: loss of water sales

SECTION 5: COMMUNITY CAPABILITY ASSESSMENT**5.1 Agencies and People**

Bighorn-Desert View Water Agency is located in the Southwestern section of the Mojave Desert within San Bernardino County. BDVWA serves the communities of Landers, Johnson Valley, and Flamingo Heights.

To help mitigate the potential impacts of disasters, BDVWA joined the Emergency Response Network of the Inland Empire (ERNIE), which consists of water agencies within San Bernardino and Riverside Counties. The ERNIE group of agencies coordinates mutual aid to help each agency recover from local jurisdictional issues. All ERNIE members are also members of the California Water/Wastewater Agency Response Network (CalWARN), which focuses on mutual aid within the State of California.

BDVWA employs 8 people. However, with the capabilities of ERNIE and CalWARN, the BDVWA has the potential of having hundreds of mutual aid workers at its disposal, within hours of an emergency.

5.2 Existing Plans

ERNIE Emergency Operations Plan, CalWARN Emergency Operations Plan, BDVWA Emergency Response plan, Illness Injury Prevention Plan (IIPP), Mutual Aid Agreements within San Bernardino and Riverside Counties and in the state of California, and being a Government Entity (Special District,

within California Law) BDVWA has the ability to access the Emergency Managers Mater Aid (EMMA) and the Emergency Management Assistance Compact (EMAC) for National Mutual Aid.

5.3 Regulations, Codes, Policies, and Ordinances

Legislation provides the Agency a safeguard for water supply and some drought hazard protection. In 1991, the amendment to the Urban Water Management and Planning Act, in effect since 1983, requires water suppliers to estimate available water supplies at the end of one, two, and three years, and to develop contingency plans for shortages of up to 50 percent.

The BDVWA has an Emergency Response Plan that is a written Response Plan detailing how the Agency will respond in the event of an emergency or disaster. The Agency must be prepared to respond to a variety of threats that require emergency actions by its employees.

Potential threats include:

- Operational incidents, such as power failure or bacteriological contamination of water associated with the BDVWA's facilities.
- Outside or inside malevolent acts, such as threatened or intentional contamination of water, intentional damage/destruction of facilities, detection of an intruder or intruder alarm, bomb threat, or suspicious mail.
- Natural disasters, such as earthquakes or floods and power failures.

Since BDVWA is a government agency operating in California, the Agency is required to follow Standard Emergency Management System (SEMS) and the National Incident Management System (NIMS).

5.4 Mitigation Programs

There has not been any past mitigation programs in place at BDVWA.

5.5 Fiscal Resources

Fiscal resources for the Agency include the following:

- Revenue from water sales
- Metering availability charge
- If necessary, local bond measures and property taxes.
- General Property Taxes

Through the California Department of Water Resources, local grants and/or loans are available for water conservation, groundwater management, and studies and activities to enhance local water supply reliability. Project eligibility depends on the type of organization(s) applying and participating in the project and the specific type of study or project. More than one grant or loan may be appropriate for a proposed activity. The forming of the HMP will help the BDVWA obtain Grant funding in the future.

The BDVWA has been a recipient of FEMA funding in the past after the 1992 Landers Earthquake and again in the 2007 for winter freezing.

SECTION 6: MITIGATION STRATEGIES

6.1 Overview

The purpose of this analysis was to identify projects (actions) that help the BDVWA to meet the Goals and Objective for each priority hazard. By going through this process, the Agency has identified hazards in the community, assessed which hazards pose the most significant risk, and identified projects to help reduce and/or eliminate the risk.

6.2 Mitigation Goals, Objectives, and Projects

As discussed in Section 3.5, the process of identifying goals began with a review and validation of the Goals and Objectives in the Agency and the San Bernardino County's 2010 Operational Area HMP. Using the 2010 as the basis, the Agency's Planning Team completed an assessment/discussion of whether each of the goals was valid.

The five high profile hazards for the Agency are Earthquake, freezing, flash flooding, terrorist events and power failure. While other hazards were profiled in previous sections, the Agency's priority and focus for the mitigation projects will be for only the five high profile hazards.

6.2.1 All Hazards

Description: *Protect lives and mitigate damage to infrastructure.* Many local laws have public safety of citizens as their primary concern. Protecting lives is also the basis for Emergency Planning, Response, and Mitigation activities.

Objectives:

- Continually improve the understanding of the location and potential impacts of natural hazards, the vulnerability of building types, and community development patterns and the measures needed to protect lives and critical infrastructure.
- Continually provide State and Local Agencies with updated information about hazards, vulnerabilities, and mitigation measures.
- Ensure that all local codes and standards ensure the protection of life.
- Ensure BDVWA owned and operated infrastructure meet minimum standards for life safety.
- Ensure that all BDVWA development in high-risk areas is protected by mitigation measures that provide for life safety and protect critical infrastructure.
- Identify and mitigate all imminent threats to life safety.

6.2.2 Earthquakes

Description: *Goal is to avoid damages to property.* The BDVWA agrees that the strengthening of building and fire codes are critical to the protection of property and life and the reduction of seismic events. These codes help water utilities design and construct reservoirs, pump stations, groundwater wells, and pipelines that resist the forces of nature and help ensure safety.

Objectives:

- Design new facilities to withstand an 8.0 earthquake. The population of BDVWA can't be moved into a safer area; therefore, the safety of the residents and the protection of the water supply becomes the main objective. Southern California is a high-risk earthquake area and is built on top of many known and unknown fault zones.
- Encourage property protection measures for structures located in the area.
- Adopt cost-effective codes and standards to protect life properties and critical infrastructure.
- Establish a partnership among all levels of government and the business community to improve and implement methods to protect property.

Mitigation Projects:

- Flexible pipe joints
- Seismic shut-off valves
- Bolt down reservoirs
- Tie down equipment
- SCADA Control systems

6.2.3 Long Term Drought

Description: *Goal is to improve drought preparedness.* The goal is to address the drought hazard through mitigation over the long-term and the objectives listed below have been taken from the recently Governor Jerry Brown, signed a declaration of a Drought State of Emergency for California, on January 17, 2014.

Objectives:

- Increase water supply - creating innovative ways to generate new supplies.
- Improve operational efficiency & transfers – this idea is to move water from where it occurs to where it will be used.
- Reduce water demand - water conservation has become a viable long-term supply option because it saves considerable capital and operating cost for the Agency.

Mitigation Projects:

- Increase public awareness of water conservation
- Increase water storage capabilities
- Increase Water Storage
- Intertie water system with other water agencies in the area

6.2.4 Flash Flooding

Description: A sudden, localized flood of great volume and short duration, typically caused by unusually heavy rain in a semiarid area. Flash floods can reach their peak volume in a matter of a few minutes and often carry large loads of mud and rock fragments. Flash flooding is common in the arid desert areas of California Arizona, Nevada, and New Mexico

Objective:

- To prevent damage to water distribution facilities
- To protect loss of critical facilities
- To mitigate damage cost of damage during and after a flash flood

Mitigation Projects:

- Block walls
- Block or concrete diversion walls
- Lower pipelines
- Concrete protection of pipelines at critical points

6.2.5 Power Outage

Description: A sudden failure of equipment resulting in the lost of electric distribution to a large geographical area, which results in the loss of operation of water wells, booster pumps and the loss of water delivery and/or water production and water pressure to a large area of population.

Objective:

- To ensure proper operation of critical facilities
- To ensure water delivery
- To mitigate damage cost of damage during and after a flash flood

Mitigation Projects:

- Purchase generators that can power critical facilities
- Purchase generator transfer switches for critical facilities, where a generator would be utilized

6.2.6 Freezing Conditions

Description: A period of cold temperatures that will allow still or slow moving water to freeze. Pipelines that are above ground, or above the frost line are most susceptible to freezing. When water freezes inside of a pipe, the water expands and ruptures the pipe. Water will not flow through a pipe that is frozen.

Mitigation Projects:

- Lower pipelines, which are susceptible to freezing, below the frost line
- Install automatic electric heaters on pipes and wells that are above ground
- Build block structures with roofs around wells and booster pumps
- Heat structures, to eliminate freezing

6.2.7 Terrorism Events

Description: A person or Group of persons willing to cause damage to people or property to forward their goals in intimidate or coerce a civilian population, to influence the policy of a government either large or small, and to affect the government or population with destruction of key components or to injure, kill other, to instill fear into a population.

Objective:

- **To help prevent damage to critical water facilities**
- **Educate the public on terrorism**
- **To help to ensure safety within the region**

Mitigation Projects:

- Train the public in “if you see something, say something.”
- SCADA controls
- Install video camera’s at critical facilities
- Harden security at critical facilities
- Build block walls around facilities to help ensure protection

Plant A-1 and A-2

- Mitigation to Earthquake: Earthquake tie-down system, seismic tank shut-off system
Cost: \$450,000 per reservoir
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, enclose facility with a block wall.
Cost: \$500,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System, Block wall around facility.
Cost: \$200,000
Cost: Storage Reservoir \$800,000

Bighorn/Hi Desert Intertie

- Mitigation to Earthquake: Flexible pipe joints, generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, Block wall around facility, or place intertie in an underground vault.

Cost: \$145,000

- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$55,000
- Drought: Intertie with Hi-Desert Water, Add more water storage.
Cost: \$800,000

Well 2 and 3

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$245,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Well 4

- Mitigation to Earthquake: Flexible pipe joints, generator for back-up power, block wall facility
Cost: \$210,000
- Mitigation to Flooding: Flood control walls to direct floodwater away from property; block wall around facility
Cost: \$200,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Plant "C"

- Mitigation to Earthquake: Flexible pipe joints, generator for back-up power, block wall around facility
Cost: \$210,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$200,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Well Site 10

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$210,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$185,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Well 9

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$200,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System-
Cost: \$45,000

Well 6 and 7

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$200,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Well 3-A

- Mitigation to Earthquake: Flexible pipe joints, Generator for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$200,000

- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

County Well and Storage Site:

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$220,000

- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Well 8

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$210,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

“C” Tanks, Reservoirs

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$400,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

“D” Tanks, Reservoir Storage, Boardroom

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$185,000

- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$285,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

“B” Tanks, Reservoir’s Administrative office, yard, Maintenance shop, Fuel

- Mitigation to Earthquake: Flexible pipe joints, Generator, for back-up power, block wall around facility
Cost: \$390,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from property, block wall around facility
Cost: \$530,000
- Terrorist Events: SCADA Control System, Security System incorporated into SCADA System
Cost: \$45,000

Chaparral Street

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$55,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$150,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$45,000

Butterfly Street

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$55,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$150,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$45,000

Starlight and Tanger

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$55,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$150,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$45,000

Cambia Avenue

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$55,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$150,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$45,000

Fortuna

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$55,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$180,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$45,000

Linn Road

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$60,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$200,000

- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$45,000

Lum Lane

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$55,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$ 220,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$35,000

Lin Road / Dusty Mile / Jemez Trail

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$110,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$245,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$35,000

Ming Road / Dusty Mile /Jemez Trail

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$85,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$220,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$35,000

Dusty Mile / Pass Road / Shannon

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$155,000

- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$ 220,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$35,000

Shawnee Trail

- Mitigation to Earthquake: Flexible pipe joints.
Cost: \$85,000
- Mitigation to Flooding: Flood Control walls, to direct floodwater away from pipeline, lower pipeline.
Cost: \$220,000
- Terrorist Events: SCADA Control System, Contamination detection system part of SCADA System
Cost: \$35,000

The BDVWA's objectives have been prioritized based on the following:

- Impact to the BDVWA's system from the identified vulnerability. This was the Planning Team's decision and they included impact cost in the decision.
- Overall cost/benefit of the mitigation strategy. For example, anchoring of equipment, such-as, bookcases, file cabinets, wall hanging item, chemical storage drums, storage cabinets in warehouse and workshop at the BDVWA's facilities is considered a high priority because of very high benefit to low cost ratio.

The Following are the items that the group identified as projects that would reduce the vulnerabilities to the identified hazards at each site and the approximant cost of each item.

6.4 Implementation Strategy

For the successful mitigation of hazards identified in this plan and to meet the BDVWA's goals within a reasonable time frame, an implementation strategy has been developed. The strategy includes an identification of the objectives identified in Section 7.2

BDVWA is currently running within budget and has reduced its operating budget in the last 7 years. Currently, the BDVWA's revenues are flat. Capital improvements projects have slowed. The Agency has cut all unnecessary spending during the economic downturn of the last 7 years. The community of Landers, Flamingo Heights and Johnson Valley are listed by the State of California as disadvantaged Communities. The Agency is attempting to gain and utilize funding in grants and low cost loans to improve and mitigate the potential damage from disasters.

There is currently no mitigation money in the BDVWA's budget. As money or grant funding becomes available the Agency will include mitigation into the budget process.

Mitigation Projects Funding Source

The only funding that has been budgeted for Mitigation is the money to develop this Hazard Mitigation Plan. The community that BDVWD serves is classified as a severely disadvantaged community, by the State of California.

Timeframe

No timeframes were used, since there are no funding streams within the current BDVWA's budget identified for Hazard Mitigation. Mitigation Items will be placed into the next years budget starting in 2015 2016 fiscal year as money permits.

SECTION 7: PLAN MAINTENANCE

7.1 Monitoring, Evaluation, and Updating the Plan

The Hazard Mitigation Plan will be reviewed as part of the annual BDVEA Board of Directors workshop in February of each year. At that time staff and elected Board members will review funding and Capital Improvement Projects (CIP) to be included into the next fiscal year's budget. A full review of the plan will be done on a 5-year interval.

7.2 Implementation through Existing Programs

Once the State of California OES and FEMA approve the HMP, BDVWA will incorporate the HMP into Capital Improvement projects, pipeline replacements, building design and any updates or repairs to the water distribution system. BDVWA will submit Notice of Intent to the State of California, yearly to help facilitate funding opportunities in obtain FEMA and State Funding to mitigate hazards within the service area.

7.3 Continued Public Involvement

The approved HMP will be posted on the Agency Website with contact information. In February of each year at the agencies regular scheduled Board of Directors annual workshop, public comments will be taken in regards to the HMP and projects that could possibly be included the next year budget.

Appendix “A”

RESOLUTION NO. 11R-18

**RESOLUTION OF THE BOARD DIRECTORS OF THE
BIGHORN-DESERT VIEW WATER AGENCY'S
DESIGNATION OF APPLICANT'S AGENT RESOLUTION
FOR NON-STATE AGENCIES**

BE IT RESOLVED BY THE, Board of Directors OF THE Bighorn-Desert View Water Agency.

THAT the General Manager, OR
the Executive Secretary/Personnel Administrator, OR
the Accounting Technician II/Customer Service Representative, OR
the Accounting Technician III/Customer Service Representative, OR
the Water Distribution Operator I, OR
the Water Distribution Operator II

is hereby authorized to execute for and on behalf of the Bighorn-Desert View Water Agency, a public entity established under the laws of the State of California, this application and to file it with the California Emergency Management Agency for the purpose of obtaining certain federal financial assistance under Public Law 93-288 as amended by the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988, and/or state financial assistance under the California Disaster Assistance Act.

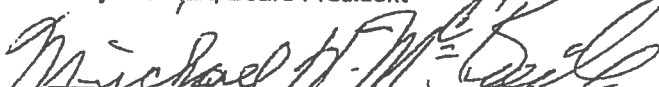
THAT the Bighorn-Desert View Water Agency, a public entity established under the laws of the State of California, hereby authorizes its agents to provide to the California Emergency Management Agency for all matters pertaining to such state disaster assistance the assurances and agreements required.

THAT this is a universal resolution and is effective for all open and future disasters up to three (3) years following the date of approval below.

THAT Resolution No. 07R-01 is hereby rescinded and of no further force and effect.

PASSED AND APPROVED this 3rd day of October, 2011



Terry Burkhardt, Board President


Michael McBride, Board Vice President


David Larson, Board Director

CERTIFICATION

I, Judy Cori-Lorono, duly appointed and Board Secretary of the Bighorn-Desert View Water Agency, do hereby certify that the above is a true and correct copy of a Resolution passed and approved by the Board of Directors of the Bighorn-Desert View Water Agency on the 3rd day of October, 2011.


Judy Cori-Lorono

Board Secretary

Appendix “B”

POLICY STATEMENT
No. 11P-01

**A POLICY OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT
VIEW WATER AGENCY ESTABLISHING
"DESERT LANDSCAPE WATER CONSERVATION GUIDELINES"
IN AN EFFORT TO REDUCE THE IMPACT ON FUTURE WATER DEMAND**

It is the mission of the Bighorn-Desert View Water Agency *"To provide a high quality supply of water and reliable service to all customers at a fair and reasonable rate"* pursuant to California State Water Code Appendix, Section 112-15.

The Board of Directors of the Bighorn-Desert View Water Agency, acting as an elected legislative body and serving as custodian of the water resources within its boundaries, finds it necessary to take proactive steps to preserve, maintain and efficiently utilize the available water supplies for the benefit of the Agency and its customers.

In an effort to support water conservation practices, the Board hereby creates these guidelines for developers, single new connections, and existing customers, taking the initiative to influence and further support the conservation of water for the purpose of extending the life of the Agency's water supplies for the benefit of the Agency and its customers.

"DESERT LANDSCAPE CONSERVATION GUIDELINES"

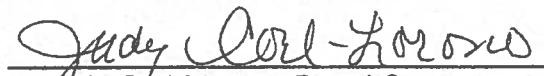
Using drought tolerant Desert landscape offers endless possibilities to conserve nature's most precious natural resource: water. Use the simple guidelines below to get started. You may also want to check with your local nursery, home-improvement center or professional landscape designer for ideas on drought tolerant landscaping for your specific property.

1. **Proper planning and design.** While creating a garden plan can take time, it increases the likelihood that you will end up with a beautiful, well planned landscaping, saving time, money and water.
2. **Use Low-Water Need and Native Plants.** These thrive with less water in our hot, dry climate. This type of garden may include many elements, such as trees, grasses, shrubs, ground covers, and flowers. This is one of the easiest ways to practice conservation in the garden; selecting low-water-use vegetation. While water-efficient plants require adequate irrigation while they are developing root systems, once established they need very little water. And contrary to popular belief, many low-water-use plans are green and lush. Some produce blooms in brilliant colors.

3. **Rocks of various sizes** create interesting contrasts in the landscape.
4. **Use of mulches.** Applying a layer of mulch can reduce evaporation; provide weed control, and moderate soil temperatures. Good mulches include rocks, bark, gravel, wood chips, or compost.
5. **Efficient irrigation.** Install an appropriate irrigation system that includes an automatic sprinkler system that targets plantings and avoids runoff. Installing drip or bubbler systems to water shrubs, trees, and flower beds saves hundreds of gallons of water. Irrigating early in the day and late in the evening also conserves water
6. **Limit turf areas.** Grass, should only be planted where it provides functional or recreational benefits.
7. **Visit the internet:** High Desert Alliance for Water Awareness and Conservation (www.hdawac.org) is a locally sponsored landscape planning resource.
8. **Visit a garden:** Locally there are many landscape demonstrations of various sizes. These can be found at:
 - Copper Mountain College, east end Joshua Tree
 - Joshua Basin Water District, central Joshua Tree
 - Hi Desert Water District, Yucca Valley
 - Mojave Water Agency, Apple Valley
 - Bighorn-Desert View Water Agency

Effective immediately the General Manager shall implement the "Desert Landscape Conservation Guidelines" as set forth in this Policy Statement, with Policy Statement No. 05P-03 hereby rescinded

I, the undersigned, hereby certify that I am the duly-appointed Secretary of the Board of Directors of the Bighorn-Desert View Water Agency, and that at a regular meeting of the Board held on August 23, 2011, the foregoing Policy 11P-01 was adopted by said Board, and that it has not been rescinded or amended since the date of its adoption, and is now in full force and effect.


Judy Cori-Lorono, Board Secretary

Attachment “A”

Public Meeting, Board Meeting Agenda’s and Minutes

Bighorn-Desert View Water Agency

Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhardt, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

Marina D West, PG, General Manager



A Public Agency

Agency Office

622 S. Jemez Trail
Yucca Valley, CA 92284-1440

760/364-2315 Phone

760/364-3412 Fax

www.bdvwa.org

BOARD OF DIRECTORS' REGULAR MEETING MINUTES

CALL TO ORDER

Meeting convened

PLEDGE OF ALLEGIANCE

Led by Sharon

ROLL CALL

Directors Present

Staff Present

APPROVAL

Motion to approve

MSC¹ (Bur

RESOLUTION NO. 14R-01 REQUESTING THE LOCAL AGENCY FORMATION COMMISSION TO INITIATE PROCEEDINGS FOR A REORGANIZATION TO INCLUDE ANNEXATIONS TO BIGHORN-DESERT VIEW WATER AGENCY AND DISSOLUTION OF COUNTY SERVICE AREA 70 ZONE W-1

General Manager West gave a brief presentation beginning with the "three (3) island areas" within CSA 70/W-1. These three small areas contribute to the increase in the application fees to the Local Agency Formation Commission (LAFCO). West also stated the Agency will request a waiver of the additional cost. The complete package which includes the "Plan For Services" will be submitted to LAFCO soon.

Public comments:

Anonymous asked if the "island areas" were surrounded by Bighorn-Desert View Water Agency.

MOTION NO. 14-015

(After brief Board discussion), Director McBride made a motion to Adopt Resolution No. 14R-01 Requesting the Local Area Formation Commission to initiate proceedings for a reorganization to include annexations to the Bighorn-Desert View Water Agency and dissolution of County Service Area Zone W-1. Director Coulombe seconded the motion.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

MOTION NO. 14-016

(After brief Board discussion), Director McBride made a motion to authorize increase in project by \$15,000 to cover LAFCO filing fee for annexation of "3 island areas" and authorize staff to formally request waiver of said fees in the formal application process. Director Coulombe seconded the motion.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

UPDATE ON THE HAZARD MITIGATION PLANNING GRANT AWARD FROM OFFICE OF EMERGENCY SERVICES

Consultant Gary Sturdivan reviewed the process that led to the Agency's award of a grant to complete a Hazard Mitigation Plan. Mr. Sturdivan will begin the process on Friday the 28th of March. Participants will include association leaders within the Landers community and participants from neighboring water districts. This plan may mitigate hazards such as earthquakes, floods and drought.

Anonymous asked if the plan could include generators.

CONFERENCE AND TRAVEL 2014 – PER BOARD OF DIRECTORS' WORKSHOP

General Manager West reported at the 2014 Directors' Workshop the conferences listed within the agenda packet were identified as conferences one or more Directors would like to attend. The pre-approval process will allow staff to seek the lowest cost possible for travel, hotel and conference registration.

No public comment.

MOTION NO. 14-017

(After brief Board discussion), Director McBride made a motion to approve the following conferences related to Board education for Calendar year 2014:

- *California Special Districts Association Legislative Days – Sacramento CA, May 20-21, 2014.*
- *7th Annual San Bernardino County Water Conference - San Bernardino CA, August 22, 2014.*

MSC¹ (Burkhart/McBride)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

CONSENT ITEMS

- a. Financial Statements February 2014
 1. Balance Sheet
 2. Statement of Revenue and Expense
 3. General Account (Union Bank)
 4. Disbursements
 5. Local Agency Investment Fund Balance Timeline
- b. Service Order Report, February 2014
- c. Production Report, February 2014
- d. Regular Board Meeting Minutes, February 25, 2014
- e. Special Board Workshop Meeting Minutes, February 22, 2014
- f. Adopt Resolution 14R-03 Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees.
- g. Board to consider authorizing application for General Services Administration (GSA) State and Federal Surplus Property Program.

No Public comment.

MOTION NO. 14-023

Director McBride made a motion to approve consent items a - g. The motion was seconded by Director Burkhart.

No public comment.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

MATTERS REMOVED FROM CONSENT ITEMS

No items removed from consent.

PUBLIC COMMENT PERIOD

Mr. Goslaw, of Landers, commented on the Agency Bonds.

VERBAL REPORTS

Director Coulombe reported on the Morongo Basin Pipeline meeting he had recently attended.

Director McBride reported that he had attended a conference on water the previous evening.

Director Burkhart reported on the governance course offered by SDRMA she had attended earlier that day.

Vice President Staley reported on the Homestead Valley Community Council meeting where they discussed fire safety and concern over solar projects.

MOTION NO. 14-019

(After brief Board discussion), After Board discussion, Director McBride made a motion to choose James V. Curatalo, Jr. to fill the regular member position of the Local Agency Formation Commission (LAFCO) San Bernardino. The motion was seconded by Director Burkhart.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y
Staley: N
Burkhart: Y
McBride: N
Coulombe: Y

MOTION NO. 14-020

(After brief Board discussion), After Board discussion, Director McBride made a motion to choose Steve Farrell to fill the alternate member position of the Local Agency Formation Commission (LAFCO) San Bernardino. The motion was seconded by Director Burkhart.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y
Staley: N
Burkhart: Y
McBride: Y
Coulombe: Y

RESOLUTION 14R-02 PLACING IN NOMINATION JUDY CORL-LORONO AS A MEMBER OF THE CALIFORNIA SPECIAL DISTRICTS ASSOCIATION (CSDA) BOARD OF DIRECTORS REGION 6

General Manager West reported the Agency received a call for nominations from the California Special Districts Association. President Corl-Lorono expressed an interest in the seat available for Region 6.

No public comment.

MOTION NO. 14-021

(After brief Board discussion), Director McBride made a motion to nominate President Judy Corl-Lorono for the CSDA Board of Directors Region 6. Director Coulombe seconded the motion.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

DISBURSEMENTS FEBRUARY 2014

No public comment.

MOTION NO. 14-022

Director Burkhart made a motion to approve the Disbursements (Check Register - Payment of Bills) for February 2014. Director McBride seconded the motion.

- *California Special Districts Association Annual Conference and Exhibitor Showcase – Palm Springs CA, September 29 – October 2, 2014.*
- *ACWA/JPIA Board Meeting for member Corl-Lorono, San Diego CA, December 1, 2014.*
- *Association of California Water Agencies Fall Conference – San Diego, CA December 2-5, 2014.*

Director Coulombe seconded the motion.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Adjourned for a Break at 7:00 p.m. - Reconvened from Break at 7:11 p.m.

PREPARATION FOR A COST-OF-LIVING ADJUSTMENT (COLA) TO THE BOARD OF DIRECTORS COMPENSATION VIA FUTURE ORDINANCE

General Manager West reported that should the Board decide to proceed with the Cost-Of-Living Adjustment staff will prepare the Ordinance for a Public Hearing to be agendized at the April 22, 2014 Board meeting. West reminded the Board that should they vote next month for the increase, each member of the Board is not obligated to accept the additional monies.

Anonymous stated the Directors do much work for the Agency on their own time.

MOTION NO. 14-018

(After brief Board discussion), Director McBride made a motion to direct staff to initiate the process for increasing the Board of Directors per diem compensation by five percent (5%) for fiscal year 2014/15. Director Burkhart seconded the motion.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

SELECTION ELECTION - BOARD TO CHOOSE A CANDIDATE TO FILL THE REGULAR MEMBER AND ALTERNATE MEMBER OF THE LOCAL AGENCY FORMATION COMMISSION (LAFCO) SAN BERNARDINO

General Manager West gave a brief report.

Mike Lipsitz of Landers commented on the good things he has heard about Al Morrisette who is running against James V. Curaltalo.

President Corl-Lorono reported on the Morongo Basin Municipal Advisory Council meeting where a resolution supporting the dissolution of CSA 70/W-1 and its annexation into Bighorn-Desert View Water Agency was approved.

FUTURE AGENDA ITEMS

Future agenda items include updates on the dissolution of CSA 70/W-1 and its annexation into BDVWA. Updates on the Hazard Mitigation Plan will be provided monthly.

ADJOURNMENT – President Judy Corl-Lorono adjourned the meeting at 8:08 p.m.

Approved by:


Terry Burkhardt, Secretary of the Board

MSC¹ – Motion made, seconded, and carried.

Bighorn-Desert View Water Agency



Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhart, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

Marina D West, PG, General Manager

Agency Office

622 S. Jemez Trail
Yucca Valley, CA 92284-1440

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www.bdvwa.org

BOARD OF DIRECTORS' REGULAR MEETING MINUTES

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, April 22 2014 – 6:00 p.m.

CALL TO ORDER

Meeting convened by Board President Judy Corl-Lorono at 6:00 p.m.

PLEDGE OF ALLEGIANCE

Led by Mark Johanson

ROLL CALL

Directors Present:

Judy Corl-Lorono
J. Dennis Staley
Terry Burkhart
Michael McBride
J. Larry Coulombe

Staff Present:

Marina West
Michelle Corbin

Public Present: Approximately 10

APPROVAL OF AGENDA

Motion to approve the agenda.

MSC¹ (McBride/Staley) unanimously approved.

Update on Dissolution of CSA 70/W-1 and Annexation to BDVWA

General Manager West gave the staff report. Last month the Board approved a resolution of intent to file the application to the Local Agency Formation Commission to begin the process of dissolution of CSA 70 W-1 and its annexation to BDVWA. Since that approval, staff and the Ad Hoc Committee met with LAFCO and it was determined that the legal description of CSA 70 W-1 was missing a required element. West continued that the legal maps must also include the assessor parcel numbers of the properties located along the edge of CSA 70 W-1's boundaries. Since the application has not yet been submitted to LAFCO, West has decided to have the maps reformatted to meet LAFCO requirements and include the amended maps with the application. In addition, West is requesting the Board approve a new resolution with the updated map and added verbiage that will allow the general manager to make non-substantive changes to the application package in the future if directed by LAFCO.

Approved 05-27-2014

- 1215 -

Also included with the resolution is the Plan for Services and Fiscal Impact Analysis. This document will layout the purpose and rational for the annexation as well as addressing existing development and growth potential for the area. This plan will include information on the services that are provided to the area before and after the transition as well as a proposed budget for operating the W-1 water system.

Lastly, West noted the application will also include letters and resolutions of support from Senator Jean Fuller, the Landers Association and the Morongo Basin Municipal Advisory Council.

Public comments:
No public comments

MOTION NO. 14-024

(After brief Board discussion), Director McBride made a motion to adopt Resolution No. 14R-05 requesting the Local Agency Formation Commission to initiate proceedings for a reorganization to include annexations to the Bighorn-Desert View Water Agency and dissolution of County Service Area 70 Zone W-1; and receive and file the Plan for Services and Fiscal Impact Analysis with application documents addressed to the Local Agency Formation Commission (LAFCO).receive and file this report. Director Coulombe seconded the motion.

Roll Call Vote:

Ayes:	Coulombe, McBride, Corl-Lorono, Staley, Burkhart
Nayes:	None
Abstain:	None
Absent:	None

MSC¹ (McBride/Coulombe)

Hazard Mitigation Plan Status Update and Receive Public Comments

Gary Sturdivan gave a brief update on the Hazard Mitigation Plan and also explained its purpose. Once the plan is complete, the Agency will be able to apply for grants to fund projects related to hazard mitigation to protect Agency infrastructure from the identified hazards.

Anonymous asked if these may include matching fund grants.

Public Hearing: Ordinance 14O-01 – An Ordinance of the Board of Directors of Bighorn-Desert View Water Agency Providing for Compensation of the Board of Directors and Establishing Procedures Related Thereto –

General Manager West reported the Ordinance was published twice in the local newspaper. West stated that if adopted the per diem will go from \$105 to \$110.25. West also reviewed the various options the Board has in passing the Ordinance and reminded the Board that they are not obligated to accept the raise if the Ordinance passes tonight.

Public comment:

Anonymous stated his concern over the item before the Board.

Anonymous confirmed the Agency had a budget surplus last fiscal year.

MOTION NO. 14-025

(After brief Board discussion), Director McBride made a motion to adopt Ordinance 14O-01 Providing for Compensation of the Board of Directors and Establishing Procedures Related Thereto. Director Burkhart seconded the motion.

Approved 05-27-2014

- 1216 -

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

Update – Integrated Regional Water Management Plan

General Manager West reported a full draft of the Integrated Regional Water Management Plan will be made available at the next Technical Advisory Council meeting. West was appointed co-chair of the Small Systems Committee. This committee will oversee the smaller water companies with regard to their qualifications and compliance necessary for projects. West also reported Mojave Water Agency will fund grant applications over the next year.

No public comment.

Receive and File Certificate of Achievement for Excellence in Financial Reporting for Fiscal Year Ending 2013

General Manager West reported that once again the Agency has received the Excellence in Financial Reporting for FY ending 2013. West expressed staff will continue to earn the award each year and she also thanked Gayla Blanton for her continued work towards the annual award.

MOTION NO. 14-026

Director McBride made a motion to Receive and File Certificate of Achievement for Excellence in Financial Reporting for Fiscal Year Ending 2013. The motion was seconded by Director Coulombe.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

CONSENT ITEMS

- a. Service Order Report, March 2014
- b. Production Report, March 2014
- c. Regular Board Meeting Minutes, March 25, 2014
- d. Resolution No. 14-06 Establishing an Agency Meeting Agenda Preparation Policy

No Public comment.

MOTION NO. 14-027

Director McBride made a motion to approve consent items a - d. The motion was seconded by Director Burkhart.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

MATTERS REMOVED FROM CONSENT ITEMS

Adjourned for a Break at 7:10 p.m. - Reconvened from Break at 7:27 p.m.

CLOSED SESSION

Approved 05-27-2014

Conference with Real Property Negotiators; Government Code Section 54956.8
Property: APN 0635-031-01-0-000 and/or APN 0454-683-01-0-0000 and/or APN 0454-221-10-0-0000 and/or APN 0454-221-13-0-0000.
Agency Negotiator: Marina West

Adjourned to closed session at 7:28 p.m. - Reconvened from closed session at 8:09 p.m.

CLOSED SESSION REPORT

President Cori-Lorono reported on the closed session stating that General Manager West was given authorization to acquire one or more of the listed parcels and authorized a not-to-exceed budget amount per parcel.

Roll Call Vote:

Ayes:	Coulombe, McBride, Cori-Lorono, Burkhart
Nayes:	Staley
Abstain:	None
Absent:	None

PUBLIC COMMENT PERIOD

No public comment.

VERBAL REPORTS

No General Manager Report

Vice President Staley reported on the USGS Aquifers 101 Seminar and the Homestead Valley Community Council meeting.

Director Coulombe reported on the Alliance for Water Awareness and Conservation meeting where they discussed a toilet exchange and under-counter water heater programs. Director Coulombe also reported on the Municipal Advisory Council meeting, the USGS Aquifer 101 Seminar, the Homestead Valley Community Council and the Landers Association meeting where they announced a new association president, Joanna Karl.

Director McBride reported on the Flamingo Heights Community Association meeting he had attended.

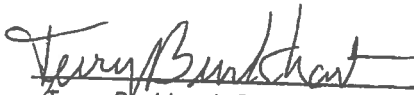
President Cori-Lorono reported on the Desert-Wise Landscape Home Tour Series she is preparing to participate in. She also reported on the Municipal Advisory Council meeting, the Landers Association meeting and the plant sale at the local Home Depot.

Director Burkhart reported on the USGS Aquifers 101 Seminar she had attended.

FUTURE AGENDA ITEMS - None

ADJOURNMENT – President Judy Cori-Lorono adjourned the meeting at 8:40 p.m.

Approved By:


Terry Burkhart, Secretary of the Board

MSC¹ – Motion made, seconded, and carried.

Bighorn-Desert View Water Agency

Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhart, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

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www.bdvwa.org

BOARD OF DIRECTORS' REGULAR MEETING MINUTES

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday May 27, 2014 - 6:00 p.m.

Call to Order

Meeting convened by Board President Judy Corl-Lorono at 6:00 p.m.

Pledge of Allegiance

Led by John Burkhart

Roll Call

Directors Present:

Judy Corl-Lorono
J. Dennis Staley
Terry Burkhart
Michael McBride
J. Larry Coulombe

Staff Present:

Marina West
Michelle Corbin

Public Present:

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Approval of Agenda

Motion to approve the agenda.

MSC¹ (Burkhart/McBride) unanimously approved.

Update on Dissolution of CSA 70/W-1 and Annexation to BDVWA

General Manager West reported on the hearing she attended at the Local Agency Formation Commission (LAFCO) on May 21, 2014. During the hearing the Commission granted Bighorn-Desert View Water Agency's request to reduce the application fees by \$10K.

West also reported the CSA 70 W-1 Ad Hoc members will soon meet with the office staff of Supervisor James Ramos. In the near future the San Bernardino Board of Supervisors will vote on the transfer of the Ad Valorem tax. West expects a department review will take place in June 2014.

Public comments:

Anonymous, a CSA 70 W-1 Landers customer commented on the new meters that are being installed in his neighborhood.

Approved 06-24-2014

- 1219 -

Hazard Mitigation Plan Status Update and Receive Public Comments

Gary Strudivan of Sierra West Consulting gave a brief update on the Hazard Mitigation Plan. Mr. Strudivan reported the plan that will be ready to go to the State of California by the end of August. All the minutes and agendas regarding the plan are located on the Agency website.

No public comment.

Resolutions Modifying Basic Facilities Charge and Service Line Installation Charge and Construction Meter Charge

General Manager West reviewed the proposed cost increases for both new meter installation and construction meters. Beginning with new meter installation, the Basic Facilities Charge is a fee levied on each new service and is a rightful share of the water system. West is proposing the Board raise this fee by the rate of inflation. The proposed meter installation charge is based on the cost of parts and labor. West also stated a third charge for new meter installation will be billed to properties located on a "County" maintained road. The County of San Bernardino requires permits and inspection fees for excavation along these roads.

West also gave a brief overview of the construction meters. West noted the construction meter is a temporary meter and due to the overall water waste and isolated location of these meters, she is proposing the Agency match the water rate to mimic the bulk account water rates. West also stated construction meters will continue to pay a monthly basic service charge.

No public comment.

Motion No. 14-028

(After brief Board discussion), Director McBride made a motion to adopt Resolution No. 14R-07 modifying the basic facilities charge and service line installation charge. Director Burkhart seconded the motion.

MSC¹ (McBride/Burkhart) motion carried.

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

MSC¹ (McBride/Burkhart) unanimously approved.

Motion No. 14-029

(After brief Board discussion), Director McBride made a motion to adopt Resolution No. 14R-08 establishing certain fees and charges (Construction Meters). Director Burkhart seconded the motion.

MSC¹ (McBride/Burkhart) motion carried.

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

MSC¹ (McBride/Burkhart) unanimously approved.

Resolution No. 14R-09 – A Resolution of the Board of Directors of the Bighorn-Desert View Water Agency Providing for the Levy and Collection of Taxes (Setting the Ad Valorem Tax) Within Improvement District No. 1 for Fiscal Year 2014-2015 at \$175,900.

General Manager West reviewed the forty year (40) debt payment and collection process for Improvement District No.1. West reminded the Board this is an annual event and will be reported to the County of San Bernardino in August 2014. West is not recommending any change from the collection amount adopted last fiscal year.

No public comment.

Motion No. 14-030

(After brief Board discussion), Director McBride made a motion to adopt Resolution No. 14R-09– Providing for the levy and collection of taxes (setting the Ad Valorem tax) within Improvement District No. 1 for Fiscal Year 2014/2015 for a total collection of a value to be determined at the board meeting no greater than \$175,900. Director Coulombe seconded the motion.

Roll Call Vote:

Ayes: McBride, Coulombe, Staley, Burkhart, Corl-Lorono
Nays: None
Abstain: None
Absent: None

MSC¹ (McBride/Coulombe) unanimously approved.

Review Draft Fiscal Year 2014/15 Operating Budget

General Manager West gave a brief presentation of the proposed budget. West went over the operations budget highlighting the cost of living increase, emergency standby and overtime estimates. West reduced the engineering budget and will look for possible funding through the Integrated Regional Management Plan. Southern California Edison (power) is expected to rise and the Agency will see a rise in well testing costs this year.

Regarding the administrative budget, West noted the Agency is below in compensation to the Board of Directors with regards to travel. West also stated administrative overtime will be reduced and employee medical insurance has leveled off this year. Office expenses were reduced because most proposed improvements are complete. Budgeted revenue is based on 90% of the prior year actual. West acknowledged water sold is often weather driven and noted the cooler spring this year. West feels the Agency overestimated last fiscal year, the amount of customers that would pay their basic service fee so she reduced this line item.

The proposed budget will create a surplus of \$126,000. Based on this budget there will be no change to the regular basic service fee and the residential and bulk water rates. West asked the Board if her proposed budget should include the cost of living index numbers for an increase in employee pay.

Public comments:

Anonymous commented on the cost of living increase.

The Board directed staff to include the Cost of Living Allowance in the Fiscal Year 2014/2015 final budget.

Adjourned for a Break at 6:57 p.m. - Reconvened from Break at 7:11 p.m.

Update – Integrated Regional Water Management Plan

General Manager West reported that at the last Technical Advisory Committee meeting it was noted the Integrated Regional Plan document is near finalization. The plan will be adopted soon and comments should be submitted by June 2, 2014 to be considered. The Bighorn-Desert View Water Agency will be asked to adopt a resolution in support of the plan in June or July this year. West went over the various members of the Small Water Systems Sub-Committee. This committee is developing a draft Work Plan for the coming fiscal year of which Bighorn-Desert View Water Agency is a part of. This group will be charged with matching small water systems with funding opportunities.

No public comment.

Consent Items

- a. Financial Statements March and April 2014
 1. Balance Sheet
 2. Statement of Revenue and Expense

Approved 06-24-2014

- 1221 -

3. General Account (Union Bank)
4. Disbursements
5. Local Agency Investment Fund Balance Timeline
- b. Receive and File Disbursements March and April 2014
- c. Service Order Report, April 2014
- d. Production Report, April 2014
- e. Regular Board Meeting Minutes, April 22, 2014
- f. Special Board Meeting Minutes, April 22, 2014

No Public comment.

Motion No. 14-031

Director Burkhart made a motion to approve consent items a - f. The motion was seconded by Director McBride.

MSC¹ (Burkhart/McBride) unanimously approved.

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Matters Removed From Consent Calendar - None

Public Comment Period - None

Verbal Reports

Vice President Staley reported on the Technical Advisory Council meeting as well as the meeting he attended at the San Bernardino Local Agency Formation Commission (LAFCO).

Director Burkhart reported on the California Special Districts Association (CSDA), Legislative Days Conference she had recently attended.

Director Coulombe reported on the various presentations he attended at the California Special Districts Association (CSDA), Legislative Days in Sacramento, California. Presentation topics included an anticipated expiration of specific property tax deductions and various assembly bills.

Director McBride reported on the California Special Districts Association (CSDA) Legislative Days Conference where he met with the staff of Assemblyman Tim Donnelly.

President Corl-Lorono reported on her meeting with representatives from the Association of California Water Agencies while attending the California Special Districts Association Legislative Days Conference.

Future Agenda Items

Future agenda items will include updates on the dissolution of CSA 70/W-1 and its annexation into Bighorn-Desert View Water Agency as well as updates on the Hazard Mitigation Plan.

Adjournment – President Judy Corl-Lorono adjourned the meeting at 8:15 p.m.

Approved by:


Terry Burkhart, Secretary of the Board

MSC¹ – Motion made, seconded, and carried.

Bighorn-Desert View Water Agency



Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhart, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

Marina D West, PG, General Manager

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BOARD OF DIRECTORS' REGULAR MEETING MINUTES

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, July 22, 2014 – 6:00 p.m.

Call to Order

Meeting convened by Board President Judy Corl-Lorono at 6:00 p.m.

Pledge of Allegiance

Led by Ms. Adams

Roll Call

Directors Present:

Judy Corl-Lorono
J. Dennis Staley
Terry Burkhart
Michael McBride
J. Larry Coulombe

Staff Present:

Marina West
Michelle Corbin

Approval of Agenda

Motion to approve the agenda.

MSC¹ (Staley/McBride) unanimously approved.

Hazard Mitigation Plan Status Update and Receive Public Comments

Gary Strudivan of Sierra West Consulting gave a brief report on the natural hazards the Agency has identified as possible threats. Mr. Strudivan also gave an overview of the Hazard Mitigation Plan and how it relates to possible mitigation funding in the future. A final document outlining the plan will be complete within the next two months. Once complete the document will go to the Office of Emergency Services and the Federal Emergency Management Agency (FEMA) for their approval.

Public comments:

Anonymous asked for clarification on possible terrorist threats to the water system.

Resolution 14R-12 Supporting the 2014 Mojave Water Agency Integrated Regional Water Management Plan

General Manager West reviewed the program and introduced the Mojave Water Agency Integrated Regional Water Management Plan. The Board is being asked to adopt a resolution supporting the plan.

No public comment.

Motion No. 14-037

(After brief Board discussion), Director Coulombe made a motion to adopt Resolution 14R-12 Adopting the Mojave Water Agency Integrated Regional Water Management Plan Pursuant to the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Prop. 84). The motion was seconded by Director Burkhart.

MSC¹ (Coulombe/Burkhart)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

Public Hearing: Resolution 14R-13 – A Resolution Confirming Reports of Delinquent Accounts for Basic Service Charges, Water Charges, Revenue Bond Surcharges, Delinquent Fees and Processing Fees and Authorizing Placement of Property Liens on the Secured Tax Rolls of San Bernardino County for Collection of Delinquencies Within Bighorn-Desert View Water Agency

Michelle Corbin gave a brief overview of the Agency lien process. This year is the lowest dollar amount lienied when compared to the previous four years.

General Manager West reported that approximately half of the past years lien amounts have been collected.

President Corl-Lorono opened the public hearing.

Public comment:

Mike Lipsitz asked why several of the dollar amounts are similar.

President Corl-Lorono closed the public hearing.

Motion No. 14-038

(After brief Board discussion), Director Burkhart made a motion to adopt Resolution No. 14R-13 Confirming reports of delinquent accounts for basic service charges, water charges, revenue bond surcharges, delinquent fees and processing fees AND authorizing the placement of property liens on the secured tax rolls of San Bernardino County for collection of delinquencies within Bighorn-Desert View Water Agency. Director McBride seconded the motion.

Roll Call Vote:

Ayes: Burkhart, McBride, Coulombe, Staley, Corl-Lorono

Nays: None

Abstain: None

Absent: None

MSC¹ (Burkhart/McBride)

Adjourned for a Break at 6:59 p.m. - Reconvened from Break at 7:12 p.m.

Update on Dissolution of CSA 70/W-1 and Annexation to BDVWA

General Manager West reported the San Bernardino Board of Supervisors will vote in August on the tax transfer.

President Cori-Lorono reported on her recent meetings with Supervisor Gonzales Chief of Staff and Supervisor Rutherford.

Director Staley reported on meetings he attended with Supervisor Rutherford and the Chief of Staff for Supervisor Gonzales. He feels the Agency is in good shape and this project will become a reality.

General Manager West she is expecting the San Bernardino County Board of Supervisors will vote on the tax transfer in August. West also reported she is preparing a Public Information Request for Special Districts.

Public Comment:

Anonymous stated he is very upset about the spending Special Districts is carrying out in CSA 70/W-1.

Anonymous asked why the San Bernardino County Board of Supervisors appear to have no control over the outrageous spending.

Anonymous stated that down the road larger issues with the system will arise and questioned how this will be paid for.

General Manager West asked this person what problems is she aware of. West reminded the Board of the similarities of the CSA 70 W-1 system and the Bighorn-Desert View Water Agency systems.

Anonymous questioned the response time CSA 70 W-1 faces when there are leaks.

Resolution 14R-14 Authorizing Leak Detection Grant in the Amount of \$87,000

General Manager West gave the staff report. This grant is one hundred percent (100%) funded. West explained the Agency has worked towards minimizing water loss through a meter replacement program however the Agency is still experiencing unaccountable loss. West stated a system wide program used to identify "hot spots" within the water system would benefit the Agency. Her plan is to focus first on high pressure areas and proactively look for possible issues before they happen.

No public comment.

Motion No. 14-039

(After brief Board discussion), After Board discussion, Director Burkhart made a motion to adopt Resolution No. 14R-14 a Resolution of the Bighorn-Desert View Water Agency authorizing General Manager to sign and submit a funding agreement and any amendments thereto for funding under the Safe Drinking Water Bond Law (SDWBL) Program; and authorizing General Manager to approve requests for partial payment (claims for reimbursement); and authorizing General Manager to sign the budget and expenditure summary; and authorizing General Manager to sign Certificate of Project Completion. The motion was seconded by Director McBride.

MSC¹ (Burkhart/McBride)

Cori-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

Hondo Road Leak – Update

General Manager West gave a brief power point on a leak that occurred on July 2, 2014. West described the steps involved in repairing this large leak that began after business hours.

Anonymous questioned how a leak this large would have been handled if it was located within CSA 70 W-1 Landers.

Anonymous asked how the replacement pipe was connected to the older pipe.

Consent Items

- a. Service Order Report, June 2014
- b. Production Report, June 2014
- c. Regular Board Meeting Minutes, June 24, 2014

No Public comment.

Motion No. 14-040

Director McBride made a motion to approve consent items a - c. The motion was seconded by Director Burkhart.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y

Staley: Y

Burkhart: Y

McBride: Y

Coulombe: Y

Matters Removed From Consent Calendar - None

Information Received From Other Agencies

General Manager West introduced a media release that does pertain to the Agency. The State Water Resources Control Board has approved an emergency regulation to "ensure water agencies, their customers and state residents increase water conservation in urban settings or face possible fines or other enforcement".

Public Comment Period - No public comment.

Verbal Reports

Director Coulombe reported on the Morongo Basin Pipeline Committee meeting he had attended where a resolution to support the Integrated Regional Water Management Plan was adopted.

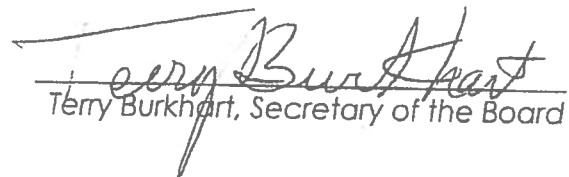
President Corl-Lorono reported on the Municipal Advisory Committee meeting where they discussed the Desert Renewable Conservation Plan.

Future Agenda Items

No future agenda items suggested.

Adjournment – President Judy Corl-Lorono adjourned the meeting at 8:29 p.m.

Approved by:


Terry Burkhart, Secretary of the Board

MSC¹ – Motion made, seconded, and carried.

Bighorn-Desert View Water Agency



Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhart, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

Marina D West, PG, General Manager

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BOARD OF DIRECTORS' REGULAR MEETING MINUTES

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, August 26, 2014 - 6:00 p.m.

Call to Order

Meeting convened by Board President Judy Corl-Lorono at 6:00 p.m.

Pledge of Allegiance

Led by Gary Strudivan.

Roll Call

Directors Present:

Judy Corl-Lorono
J. Dennis Staley
Terry Burkhart
Michael McBride
J. Larry Coulombe

Staff Present:

Marina West
Michelle Corbin

Public Present: Approximately 10

Approval of Agenda

Motion to approve the agenda with Item Number Eight (8) Resolution 14R-XX Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees be pulled and Item Number Seven (7) the Financial Utility Billing Software Upgrade be heard first on the agenda. MSC¹ (Burkhart/Staley) unanimously approved.

Financial Utility Billing Software Upgrade

Springbrook Senior Partner, Marily Rementeria joined the meeting via conference call. She gave a brief overview of her software company highlighting several of its benefits. General Manager West explained the agency currently uses Datastream for most all of its software purposes. Recently Datastream merged with Springbrook. West stated staff has looked into other options and is recommending the agency remain with DataStream via Springbrook. GM West also reviewed the various payment options.

Public comments:

Anonymous asked the age of the current system.

Approved 09-23-2014

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Anonymous stated how difficult it was when his company lost its server.
Anonymous asked if the new system will increase office staff production.

Motion No. 14-041

(After brief Board discussion), Director Coulombe made a motion to authorize General Manager to execute the contract with Springbrook Software, Inc. for 4-Year Cost of Ownership Premise License and first four years of software maintenance in the amount of \$159,993. Director Burkhart seconded the motion.

MSC¹ (Coulombe/Burkhart)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Motion No. 14-042

(After brief Board discussion), Director Burkhart made a motion to direct staff on preferred payment option through Springbrook of 100% of Premise costs (\$61,250) in FY2014/15 with funding for Professional Services (\$43,400) deferred to FY2015/16. Director McBride seconded the motion.

MSC¹ (Burkhart/McBride)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Motion No. 14-043

(After brief Board discussion), Director McBride made a motion to authorize General Manager to purchase and install hardware and peripheral equipment to accommodate Springbrook Software as well as centralized employee file sharing in an amount not to exceed \$13,313. Director Burkhart seconded the motion.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Motion No. 14-044

(After brief Board discussion), Director McBride made a motion to authorize a total project contingency of \$12,500 for unforeseen professional services or software application adjustments identified during the period of conversion as well as any miscellaneous appurtenant hardware and labor services identified during installation. Director Coulombe seconded the motion.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Hazard Mitigation Plan Status Update and Receive Public Comments

Gary Strudivan of Sierra West Consulting gave the Board a brief update on the Hazard Mitigation Plan and also introduced the draft version of the written plan that will soon go back to the Board for approval. Once approved by the Bighorn-Desert View Water Agency Board of Directors the plan will go to the State of California and the Federal Emergency Management Agency. Mr. Strudivan also reiterated the purpose of the approved written plan and how it relates to future grant funding.

No public comment.

Anonymous commented the written plan is very informational.

Update on Dissolution of CSA 70/W-1 and Annexation to BDVWA

General Manager West gave a report on the department review committee meeting she attended at San Bernardino County LAFCO (Local Agency Formation Commission) offices. At this meeting West learned LAFCO is the "lead" agency and will be responsible for the preliminary CEQA (California Environmental Quality Act) study. West also stated LAFCO staff will strive to minimize threats of any possible legal challenges to the CEQA study. West reported the agency has secured an attorney that specializes in annexation issues as they pertain to CEQA. West also noted she will be working on the five year revenue and expense projection for the area of CSA 70/W-1.

Public comment:

Anonymous inquired about the timeline of the protest vote.

Motion No. 14-045

(After brief Board discussion), Director McBride made a motion to authorize budget adjustment of \$3,100 for processing LAFCO 3181: Reorganization to include Annexations to Bighorn-Desert View Water Agency, Dissolution of County Service Area 70 Zone W-1 and Formation of an Improvement District for Bighorn-Desert View Water Agency. Director Burkhart seconded the motion.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Adjourned for a Break at 7:07 p.m. - Reconvened from Break at 7:22 p.m.

Consent Items

- a. Financial Statements June 2014
 1. Balance Sheet
 2. Statement of Revenue and Expense
 3. General Account (Union Bank)
 4. Disbursements
 5. Local Agency Investment Fund Balance Timeline
- b. Receive and file Disbursements, June 2014
- c. Financial Statements July 2014
 1. Balance Sheet
 2. Statement of Revenue and Expense
 3. General Account (Union Bank)
 4. Disbursements
 5. Local Agency Investment Fund Balance Timeline
- d. Receive and file Disbursements, July 2014

- e. Service Order Report, July 2014
- f. Production Report, July 2014
- g. Regular Board Meeting Minutes, July 22, 2014

No Public comment.

Motion No. 14-046

Director McBride made a motion to approve consent items a - g. The motion was seconded by Director Burkhart.

MSC¹ (McBride/Burkhart)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Matters Removed From Consent Calendar - None

Public Comment Period

No public comments.

Verbal Reports

General Manager West went over the revised 2014 Board of Directors calendar and also the board member assignments. West also reported on a refund the agency received from Mojave Water Agency.

Director Burkhart reported on the San Bernardino County Water Conference.

Vice-President Staley reported on meetings he attended at the San Bernardino Local Agency Formation Commission, the San Bernardino County Board of Supervisors Meeting, the Technical Advisory Council and the San Bernardino County Water Conference.

Director Coulombe reported on the San Bernardino County Water Conference.

President Corl-Lorono reported on the Municipal Advisory Council meeting she had attended as well as the San Bernardino County Water Conference.

Future Agenda Items

None

Adjournment – President Judy Corl-Lorono adjourned the meeting at 8:02 p.m.

Approved by:


Terry Burkhart, Secretary of the Board

MSC¹ – Motion made, seconded, and carried.

Planning Team Meeting Agenda's and Minutes

Attachments “B”

Minutes?

Bighorn Desert View Water Agency - Hazard Mitigation Plan (HMP)

03/28/2014

Meeting Called to order at 10:00 am, by

1. Greetings, Gary Sturdivan will be completing the plan.
2. Keep informed:
 - a) Mitigation Planning information will be provided on the BDVWA website, after each meeting.
3. Content of the new Hazard Mitigation Plan
 - a) Will include site assessments
 - b) What hazards are present
 - c) Pictures
 - d) What mitigation efforts can be performed
 - e) Approx. cost of those efforts
4. Public Document
 - a) The plan itself is a public document
 - b) Required to allow public to comment
 - c) Each Board meeting will have a HMP comment period (right up front).
5. Plans are REQUIRED for certain grant funds
6. FEMA will review and approve document
7. 18 plans were approved for funding; bighorn was one of three that did not have additional comments or questions.
8. Future Meetings
 - a) Two meetings per month at about 1 -1.5 hours long.
 - b) One meeting will be held on the day of a BDVWA Board Meeting:
 - i. Next meeting will be on April 8th and 9am. (Date and time will be changed to April 9th @ 9:00 am)

**Bighorn Desert View Water Agency - Hazard Mitigation
Plan (HMP)
03/28/2014**

ii. Future meetings:

- * April 22nd, 2014 @ 3:00 pm
- * May 13th, 2014 @ 9:00 am
- * May 27th, 2014 @ 3:00 pm

9. Planning Team Members, please have alternate available. Same people need to be involved throughout the planning process for effective participation.

10. Gary and Marina will have more documentation for the next meeting following the site assessment today.

Meeting adjourned at 11:05 am.

**Meeting Minutes for Bighorn Desert View WA, Mitigation Planning Team
April 9, 2014**

- 1) Meeting opened at 9:30 am
- 2) Introductions were conducted (sign in attached)
- 3) Last Meeting Minutes (3-28-14) were reviewed and approved (100% yes)
- 4) The time-line for the project was discussed, with the final Mitigation Plan being sent to CalOES in August 2014.
- 5) Risk- Hazards were discussed with the group, lead by Mr. Sturdivan.
 - Earthquake
 - Flash Flooding/Mudslides/ landslides
 - Terrorist events
 - Wildfire
 - Freezing
 - Power failure
 - Wind storms
 - Drought
 - Volcanoes

Following the discussions of the items listed above the Team came to an agreement of the top six (6) hazards that face the Bighorn Desert View Water Agency and the critical water-pumping infrastructure that would be affected by the hazard.

The top six hazards are listed below in order of importance.

- 1) Earthquake
- 2) Freezing events
- 3) Flashflood/landslide
- 4) Power Failure
- 5) Terrorist events on the water system or attacks on the nearby Marine-Base.
- 6) Drought

Plant A-1 and A-2

Mitigation

- Seismic shut of valves
- Seismic tie-down's both tanks
- SCADA, System, with security for the tanks and gates

- Block wall around plant to mitigate flooding, and debris flow, from hillside to the west.
- Drainage improvements
- Flex-piping for inlet and outlet

Intertie site between Bighorn and High Desert Water District, can take water from High Desert into Bighorn's system or Bighorn can give water to High Desert Water

Mitigation

- Build block wall around plant
- Generator Back-up
- SCADA system with security system
- Put intertie in a vault
- Water booster pump

Well 2 and 3

Mitigation

- Block wall facility and wellheads
- Cooling system
- Generator
- SCADA System
- Security System
- Generator Transfer Panel

Well 4, Well and Hauling Station (plant is at the epicenter of the 1992 Landers Earthquake)

- Enclosure for Well,
- Block wall facility
- SCADA System
- Security System
- Vulnerabilities to water contamination
- Generator Transfer Switch
- Heating and cooling

Tank "C"

Mitigation

- Seismic Shut-off valves for water inlet and outlet

- Seismic tie-down system
- SCADA System
- Security System
- Block wall (protection from flooding)
- Flex-piping for inlet and outlet

Well 10, Reservoir

Mitigation

- Seismic Shut-off valves for inlet and outlet
- Seismic tie-down system
- SCADA System
- Security System
- Building for wellhead and booster pumps
- Generator Transfer Switch
- Block wall facility
- Heating and cooling

Well 9

Mitigation

- Building for wellhead
- Block wall
- Security System
- SCADA System
- Pipe heating system for freezing
- Generator Transfer Switch
- Drainage

Well 6 and 7

Mitigation

- Building for wellhead
- Block wall
- Security System
- SCADA System
- Pipe heating system for freezing
- Generator Transfer Switch
- Drainage

County Well number 3 (County of San Bernardino) sites are in the process of being incorporated into Bighorn Desert Water Agencies, System

Mitigation

- Enclosure Block building for wellhead
- Seismic Shut-off
- Security
- SCADA System
- Heating and collin

County Well site number 1 and 2

Mitigation

- SCADA System
- Security System
- Seismic Tie-down of the tank
- Seismic shut-off value inlet and outlet
- Block wall
- Drainage
- Heating and cooling

Well 8

Mitigation

- Block wall
- Building for wellhead
- Generator Transfer Switch
- SCADA System
- Security
- Cooling/Heating
- Site Drainage
- Generator

District Yard/Office (Three tanks on-site)

Mitigation

- Security System
- SCADA System

- Seismic Shut-off for all three reservoirs on site
- Seismic tie-down, for all three reservoirs
- Generator Transfer switch
- Protection for the booster station on site, move booster station out of underground vault
- Block wall facility
- Flood diversion wall to protect office building

Gary Sturdivan closed hazard Mitigation Meeting at 11:35 pm.

Next meeting of the Mitigation Planning Team

April 22, at 3:00 pm.

May 13, at 9:00 am

May 27, T 3:00 PM.

Attendees: West, Corl-Lorono, Rodriguez, Corbin, Ban, Rewal, and Sturdivan

**Meeting Minutes for Bighorn Desert View WA, Mitigation Planning Team
April 22, 2014**

- 1) Meeting opened at 3:00 pm
- 2) Introductions were conducted (sign in attached)
- 3) Last Meeting Minutes (4-22-14) were reviewed and are being revised
- 4) The time-line for the project was discussed, with the final Mitigation Plan being sent to CalOES in August 2014.
- 5) The last meeting the team for there content reviewed minutes and documents. It was found that some of the items on the list of critical sites need some revision, before approval
- 6) Risk- Hazards were discussed with the group, lead by Mr. Sturdivan.
- 7) The team went over all of the documents that have been generated to this point of the planning. The team found, some of the documents needed to be revised.
- 8) The Team discussed the planning time-line and the for the project

Meeting was adjourned at 4:33 pm.

Planning Team Members in attendance: West, Corl-Lorono, Jones, Corbin, Laffoon, and Rodrigues.

BDVWA Meeting was opened at 6:00 pm.

HMP Public Comment was opened at 6:10 pm. Please see Board Meeting Minutes for all questions and comments, BDVWA records all Board Meetings.

HMP Public questions and comments period was closed at 6:35

Planning Team Members in attendance: Marina West, Judy Corl-Lorono.

Approved May 13, 2014

Agenda

Hazard Mitigation Planning

Bighorn Desert View

April 22, 2014

3:00 PM

District Board Room

Vice President
J. Dennis Staley

Tung Burphent
Secretary

- Welcome Self Introductions
- Review last meetings hazard identification and mitigation findings
- Approval on the Meeting Minutes (April 9, 2014)
- Identify other infrastructure to Mitigate (pipelines)
- Any other items to identify
- Any other items for mitigation
- Schedule June meeting times and dates

- Last words, Need each person to email me a short Bio job title for each

flash flooding
concrete incas
Though A/C pipe
grading roads

Next meeting dates

May 13, 2014, 9:00 am

May 27, 2014, at 3:00 pm.

June 10 9:00

June 24 3:00pm

Well 2+3
mountain only

Well 4 needs to be
put back on line

minutes

**Meeting Minutes for Bighorn Desert View WA, Mitigation
Planning Team
May 13, 2014**

1. Introductions were completed; the public didn't attend this meeting.
2. Meeting minutes from April 22, and April 9, 2014 were reviewed and passed.
3. The outline of the first part of the HMP was introduced to the Planning Team. There was discussion on the sections and revisions were made.
4. The Table of Contents for the HMP was reviewed by the Planning Team and discussed.

Meeting was adjourned at 10:40 am.

Next Meeting dates and times:

June 10, 2014 @9:00 am

June 24, 2014 @ 3:00 pm (Meeting may be cancelled)

Members attending: West, Ban, Corl-Lorono, Corbin, Laffoon, Rewal, and Sturdivan

Meeting Minutes for Bighorn Desert View Water Agency
Hazard Mitigation Planning Team
May 27, 2014

1. Introductions were conducted
2. Meeting Minutes from May 27 were reviewed and approved by the Team.
3. Review a list of Pipelines and street crossings. The Team reviewed the list and identified which pipelines were critical to the function of the water system. Mr. Sturdivan compiled the identified pipeline structures and input these items into the draft HMP
4. The Team, brainstormed ways to mitigate flash flooding, earthquake damage and debris from undermining or damaging critical pipelines.
5. The team, also talked about ways to mitigate damage to pipelines in dirt roads. After a flashflood or earthquake the County re-grades the roadways and uncovers pipelines, sometimes scraping the top of the pipeline, hitting the stem of the gate valves and leaving the pipelines uncovered.
6. Ways to mitigate were, lowering the pipeline; putting concrete over the top of the pipelines, flood water diversion walls.
7. Adjournment
8. Next Meeting

July 22, 2014 @ 3:00 p.m.

Team members In Attendance:

Marina West, Judy Corl-Lorono, David Rewal, Judy Laffoon, David Rodriguez and Gary Sturdivan

**Meeting Minutes for
Bighorn Desert View Water Agency
Hazard Mitigation Planning Team
July 8, 2014
9:00 to 10:30**

The meeting was called to order at 9:00 a.m.

Introductions were completed

Meeting Minutes from May 27 were reviewed and the Team approved the meeting minutes.

Meeting Minutes were posted on the BDVWA's Web site.

The team reviewed the replacement cost of the pipeline structures, well sites and pump stations. The Team determined a replacement cost.

The meeting was adjourned at 10:00 a.m.

Next meeting: July 22, 2014 at 3:00

Team Members in attendance:

West, Sturdivan, Corbin, Corl-Lorono, Rewal, Laffoon, Jones, Rodriguez

Minutes?

Bighorn Desert View Water Agency - Hazard Mitigation Plan (HMP)

03/28/2014

Meeting Called to order at 10:00 am, by

1. Greetings, Gary Sturdivan will be completing the plan.
2. Keep informed:
 - a) Mitigation Planning information will be provided on the BDVWA website, after each meeting.
3. Content of the new Hazard Mitigation Plan
 - a) Will include site assessments
 - b) What hazards are present
 - c) Pictures
 - d) What mitigation efforts can be performed
 - e) Approx. cost of those efforts
4. Public Document
 - a) The plan itself is a public document
 - b) Required to allow public to comment
 - c) Each Board meeting will have a HMP comment period (right up front).
5. Plans are REQUIRED for certain grant funds
6. FEMA will review and approve document
7. 18 plans were approved for funding; bighorn was one of three that did not have additional comments or questions.
8. Future Meetings
 - a) Two meetings per month at about 1 -1.5 hours long.
 - b) One meeting will be held on the day of a BDVWA Board Meeting:
 - i. Next meeting will be on April 8th and 9am. (**Date and time will be changed to April 9th @ 9:00 am**)

Bighorn Desert View Water Agency - Hazard Mitigation Plan (HMP)
03/28/2014

Meeting Called to order at 10:00 am, by

1. Greetings, Gary Sturdivan will be completing the plan.
2. Keep informed:
 - a) Mitigation Planning information will be provided on the BDVWA website, after each meeting.
3. Content of the new Hazard Mitigation Plan
 - a) Will include site assessments
 - b) What hazards are present
 - c) Pictures
 - d) What mitigation efforts can be performed
 - e) Approx. cost of those efforts
4. Public Document
 - a) The plan itself is a public document
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5. Plans are REQUIRED for certain grant funds
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8. Future Meetings
 - a) Two meetings per month at about 1 -1.5 hours long.
 - b) One meeting will be held on the day of a BDVWA Board Meeting:
 - i. Next meeting will be on April 8th and 9am. **(Date and time will be changed to April 9th @ 9:00 am)**

**Bighorn Desert View Water Agency - Hazard Mitigation
Plan (HMP)
03/28/2014**

ii. Future meetings:

- * April 22nd, 2014 @ 3:00 pm
- * May 13th, 2014 @ 9:00 am
- * May 27th, 2014 @ 3:00 pm

9. Planning Team Members, please have alternate available. Same people need to be involved throughout the planning process for effective participation.

10. Gary and Marina will have more documentation for the next meeting following the site assessment today.

Meeting adjourned at 11:05 am.

**Meeting Minutes for Bighorn Desert View WA, Mitigation Planning Team
April 9, 2014**

- 1) Meeting opened at 9:30 am
- 2) Introductions were conducted (sign in attached)
- 3) Last Meeting Minutes (3-28-14) were reviewed and approved (100% yes)
- 4) The time-line for the project was discussed, with the final Mitigation Plan being sent to CalOES in August 2014.
- 5) Risk- Hazards were discussed with the group, lead by Mr. Sturdivan.
 - Earthquake
 - Flash Flooding/Mudslides/ landslides
 - Terrorist events
 - Wildfire
 - Freezing
 - Power failure
 - Wind storms
 - Drought
 - Volcanoes

Following the discussions of the items listed above the Team came to an agreement of the top six (6) hazards that face the Bighorn Desert View Water Agency and the critical water-pumping infrastructure that would be affected by the hazard.

The top six hazards are listed below in order of importance.

- 1) Earthquake
- 2) Freezing events
- 3) Flashflood/landslide
- 4) Power Failure
- 5) Terrorist events on the water system or attacks on the nearby Marine-Base.
- 6) Drought

Plant A-1 and A-2

Mitigation

- Seismic shut of valves
- Seismic tie-down's both tanks
- SCADA, System, with security for the tanks and gates

- Block wall around plant to mitigate flooding, and debris flow, from hillside to the west.
- Drainage improvements
- Flex-piping for inlet and outlet

Intertie site between Bighorn and High Desert Water District, can take water from High Desert into Bighorn's system or Bighorn can give water to High Desert Water

Mitigation

- Build block wall around plant
- Generator Back-up
- SCADA system with security system
- Put intertie in a vault
- Water booster pump

Well 2 and 3

Mitigation

- Block wall facility and wellheads
- Cooling system
- Generator
- SCADA System
- Security System
- Generator Transfer Panel

Well 4, Well and Hauling Station (plant is at the epicenter of the 1992 Landers Earthquake)

- Enclosure for Well,
- Block wall facility
- SCADA System
- Security System
- Vulnerabilities to water contamination
- Generator Transfer Switch
- Heating and cooling

Tank "C"

Mitigation

- Seismic Shut-off valves for water inlet and outlet

- Seismic tie-down system
- SCADA System
- Security System
- Block wall (protection from flooding)
- Flex-piping for inlet and outlet

Well 10, Reservoir

Mitigation

- Seismic Shut-off valves for inlet and outlet
- Seismic tie-down system
- SCADA System
- Security System
- Building for wellhead and booster pumps
- Generator Transfer Switch
- Block wall facility
- Heating and cooling

Well 9

Mitigation

- Building for wellhead
- Block wall
- Security System
- SCADA System
- Pipe heating system for freezing
- Generator Transfer Switch
- Drainage

Well 6 and 7

Mitigation

- Building for wellhead
- Block wall
- Security System
- SCADA System
- Pipe heating system for freezing
- Generator Transfer Switch
- Drainage

County Well number 3 (County of San Bernardino) sites are in the process of being incorporated into Bighorn Desert Water Agencies, System

Mitigation

- Enclosure Block building for wellhead
- Seismic Shut-off
- Security
- SCADA System
- Heating and collin

County Well site number 1 and 2

Mitigation

- SCADA System
- Security System
- Seismic Tie-down of the tank
- Seismic shut-off value inlet and outlet
- Block wall
- Drainage
- Heating and cooling

Well 8

Mitigation

- Block wall
- Building for wellhead
- Generator Transfer Switch
- SCADA System
- Security
- Cooling/Heating
- Site Drainage
- Generator

District Yard/Office (Three tanks on-site)

Mitigation

- Security System
- SCADA System

- Seismic Shut-off for all three reservoirs on site
- Seismic tie-down, for all three reservoirs
- Generator Transfer switch
- Protection for the booster station on site, move booster station out of underground vault
- Block wall facility
- Flood diversion wall to protect office building

Gary Sturdivan closed hazard Mitigation Meeting at 11:35 pm.

Next meeting of the Mitigation Planning Team

April 22, at 3:00 pm.

May 13, at 9:00 am

May 27, T 3:00 PM.

Attendees: West, Corl-Lorono, Rodriguez, Corbin, Ban, Rewal, and Sturdivan

**Meeting Minutes for Bighorn Desert View WA, Mitigation Planning Team
April 22, 2014**

- 1) Meeting opened at 3:00 pm
- 2) Introductions were conducted (sign in attached)
- 3) Last Meeting Minutes (4-22-14) were reviewed and are being revised
- 4) The time-line for the project was discussed, with the final Mitigation Plan being sent to CalOES in August 2014.
- 5) The last meeting the team for there content reviewed minutes and documents. It was found that some of the items on the list of critical sites need some revision, before approval
- 6) Risk- Hazards were discussed with the group, lead by Mr. Sturdivan.
- 7) The team went over all of the documents that have been generated to this point of the planning. The team found, some of the documents needed to be revised.
- 8) The Team discussed the planning time-line and the for the project

Meeting was adjourned at 4:33 pm.

Planning Team Members in attendance: West, Corl-Lorono, Jones, Corbin, Laffoon, and Rodrigues.

BDVWA Meeting was opened at 6:00 pm.

HMP Public Comment was opened at 6:10 pm. Please see Board Meeting Minutes for all questions and comments, BDVWA records all Board Meetings.

HMP Public questions and comments period was closed at 6:35

Planning Team Members in attendance: Marina West, Judy Corl-Lorono.

Approved May 13, 2014

**Meeting Minutes for Bighorn Desert View WA, Mitigation
Planning Team
May 13, 2014**

1. Introductions were completed; the public didn't attend this meeting.
2. Meeting minutes from April 22, and April 9, 2014 were reviewed and passed.
3. The outline of the first part of the HMP was introduced to the Planning Team. There was discussion on the sections and revisions were made.
4. The Table of Contents for the HMP was reviewed by the Planning Team and discussed.

Meeting was adjourned at 10:40 am.

Next Meeting dates and times:

June 10, 2014 @9:00 am

June 24, 2014 @ 3:00 pm (Meeting may be cancelled)

Members attending: West, Ban, Corl-Lorono, Corbin, Laffoon, Rewal, and Sturdivan

Meeting Minutes for Bighorn Desert View Water Agency
Hazard Mitigation Planning Team
May 27, 2014

1. Introductions were conducted
2. Meeting Minutes from May 27 were reviewed and approved by the Team.
3. Review a list of Pipelines and street crossings. The Team reviewed the list and identified which pipelines were critical to the function of the water system. Mr. Sturdivan compiled the identified pipeline structures and input these items into the draft HMP
4. The Team, brainstormed ways to mitigate flash flooding, earthquake damage and debris from undermining or damaging critical pipelines.
5. The team, also talked about ways to mitigate damage to pipelines in dirt roads. After a flashflood or earthquake the County re-grades the roadways and uncovers pipelines, sometimes scraping the top of the pipeline, hitting the stem of the gate valves and leaving the pipelines uncovered.
6. Ways to mitigate were, lowering the pipeline; putting concrete over the top of the pipelines, flood water diversion walls.
7. Adjournment
8. Next Meeting

July 22, 2014 @ 3:00 p.m.

Team members In Attendance:

Marina West, Judy Corl-Lorono, David Rewal, Judy Laffoon, David Rodriguez and Gary Sturdivan

**Meeting Minutes for
Bighorn Desert View Water Agency
Hazard Mitigation Planning Team
July 8, 2014
9:00 to 10:30**

The meeting was called to order at 9:00 a.m.

Introductions were completed

Meeting Minutes from May 27 were reviewed and the Team approved the meeting minutes.

Meeting Minutes were posted on the BDVWA's Web site.

The team reviewed the replacement cost of the pipeline structures, well sites and pump stations. The Team determined a replacement cost.

The meeting was adjourned at 10:00 a.m.

Next meeting: July 22, 2014 at 3:00

Team Members in attendance:

West, Sturdivan, Corbin, Corl-Lorono, Rewal, Laffoon, Jones, Rodriguez

First meeting March 28, 2014

Steve: scorbina@jbwd.com 760-910-4552

Judy Laffoon totallyjudy@yahoo.com 760-364-2931

Gary Sturdivan gSturdivan@Mac.Com 909 658-5974

David Reuwl bduwa1@mindspring.com 760-364-2315

Judy CORL-LORONO JRCORL@gmail.com 760-364-2334

DAVID RODRIGUEZ drod60@gmail.com
760 401-0521

James CORBIN JCORBIN@JBWD.COM

MARK BAN markb@hduwd.com 760-362-3677

MARINA WEST bduwa2@mindspring.com 760-364-2315

Ken Jones 2161@hotmail.com

4/9/2014

BDVWA HAZARD MITIGATION PLAN MEETING
MARINA WEST ~~MAUNAP~~

DAVID RODRIGUEZ

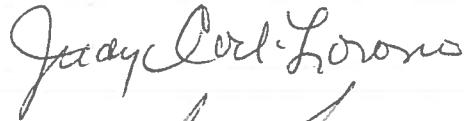


David Rewal



Bdvw7@mindspring.com

Judy Cori-Lorono



Stephen Corbin



Mark Ban (HOWD)



markb@hwd.com

Not attending yet
Ken Jones - 61@hotmail.com

Marina asked for
him to be added.
email date 4/8/14

H.M.P. 4/22/14

DATE

Gary Sturtevant

Mauna West

Ken Jones

Judy Corl-Lorono

Stephen Carbin

Judy Laffoon

DAVID RODRIGUEZ

meeting closed 4:33

Bighorn sign in sheet
9:30. May 13

Gary Sturdivant

Marina West

David Rewal

BDUWA

Stephen Conbin

JBWD

Judy Laffoon

Landers

Judy Corl-Lorono

BDUWA

MARK BAN

HDWD

MEETING SIGN-IN: BIGHORN DESERT VIEW WATER AGENCY

Hazard Mitigation Planning Meeting	Meeting Date: May 27, 2014
---	-----------------------------------

Meeting Date: May 27, 2014

Facilitator: Gary Sturdivan

Time: 3pm

[illegible]

MEETING SIGN-IN: BIGHORN DESERT VIEW WATER AGENCY

Hazard Mitigation Planning Meeting

Meeting Date: July 8, 2014

Facilitator: Gary Sturdivan

Time: 8:00 am

Name	E-Mail
Stephen Corbin	scorbin@jbwd.com
Judy Cori-Lorono	BdVWA@min
David Bewal	bduwa7@mindspring.com
Judy Laffoon	totallyjudy@yahoo.com
Ken Jones	KenJonesLJ@hotmail.com
Marina West	bduwa2@mindspring.com
DAVID RODRIGUEZ	drod60@gmail.com
Judy Laffoon	760-364-2931

MEETING SIGN-IN: BIGHORN DESERT VIEW WATER AGENCY

Hazard Mitigation Planning Meeting

Meeting Date: July 22, 2014

Facilitator: Gary Sturdivan

Time: 3:00 p.m.

[illegible]

Attachment “C”

Generator Sizing per Facility

RECEIVED

MAY 28 2013

MEMORANDUM

TO: MARINA WEST, GENERAL MANAGER
BIGHORN-DESERT VIEW WATER AGENCY **FILE:** 997-6.5

FROM: RUSSELL E. ROMEYN *RR*
SABRINA A. NIES *SAN* **DATE:** 5/23/2013
KRIEGER & STEWART, INCORPORATED

SUBJECT: EQUIPPING PUMPING PLANTS WITH MANUAL TRANSFER SWITCHES
STANDBY GENERATOR REQUIREMENTS

As requested during an April 30, 2013 conference call with Agency staff, Krieger & Stewart evaluated the maximum load requirements for each of the Agency's facilities and determined the minimum standby generator size for each facility. The purpose of this memorandum is to summarize the results of our evaluation.

As set forth in the sections below, we have provided a recommendation on the minimum generator size required at each of the Agency's facilities, an evaluation of the Agency's existing trailer-mounted generator, and budgetary costs for a new trailer-mounted standby generator.

I. STANDBY GENERATOR REQUIREMENTS

Based on information we obtained during field review of the Agency's sites, we determined the maximum running load for each of the Agency's facilities. Using generator sizing software (provided by each generator manufacturer), we determined the minimum generator size at each facility. For sites with multiple wells (i.e. Wells No. 2 and No. 3, and Wells No. 6 and No. 7) or booster pumps (i.e. Booster A and Booster C), generator sizes were determined based on operating only one pump at a time.

MARINA WEST
 5/23/2013
 PAGE 2

The following table summarizes the maximum running load and minimum generator size that will be required at each Agency facility; however, if the Agency decides to purchase a generator, the generator size will need to be confirmed by the selected generator manufacturer prior to purchase:

Facility	Voltage	Maximum/Running kW Level	Minimum Generator Size
Wells No. 2 and No. 3	480V, 3-Phase	137.2 kW / 62.1 kW	150 kW
Well No. 4	480V, 3-Phase	136.7 kW / 7.0 kW	150 kW
Wells No. 6 and No. 7	480V, 3-Phase	142.7 kW / 67.6 kW	175 kW
Well No. 8 ⁽¹⁾	480V, 3-Phase	166.2 kW / 166.2 kW	175 kW
Well No. 9 ⁽¹⁾	480V, 3-Phase	106.7 kW / 106.7 kW	125 kW
Well No. 10 ⁽²⁾	480V, 3-Phase	24.1 kW / 7.0 kW	25 kW ⁽²⁾
Booster C	480V, 3-Phase	82.8 kW / 37.8 kW	90 kW
Booster A	240V, 3-Phase	24.1 kW / 7.0 kW	25 kW
Jemez Office (Full Load) ⁽³⁾	240V, 1-Phase	18.0 kW / 18.0 kW	60 kW
Jemez Office (Reduced Load) ⁽⁴⁾	240V, 1-Phase	9.0 kW / 9.0 kW	30 kW

- (1) Sizing is based on the assumption that the autotransformer is set at 65% voltage during startup.
- (2) Well No. 10 currently has a 45 kW trailer-mounted generator onsite that we understand is intended for exclusive use at Well No. 10.
- (3) Full load at the Jemez Office includes operating both the A/C and water heater.
- (4) Reduced load at the Jemez Office does not include operating the A/C and water heater.

MARINA WEST
5/23/2013
PAGE 3

II. EXISTING STANDBY GENERATOR

During our field visit, we confirmed that the Agency's existing Caterpillar trailer-mounted standby generator (located at the Wells No. 2 and No. 3 site) is rated at 185 kW/480V. At 185 kW, this generator will produce approximately 278 amps of 480V, three phase power. Assuming that the generator is in good operating condition, the 185 kW generator appears to be of adequate size to power all of the Agency's sites (which are 480V), except for Booster A and the Jemez Office (which are 240V).

The existing generator and Wells No. 2, No. 3, and No. 4 are each equipped with a receptacle/plug that is only rated for 100 amps and does not provide a ground connection. The electrical power cord on the generator is #2 AWG in size and only capable of 94 amps. Therefore, if the Agency intends to continue to use the generator, we recommend that the receptacle, plug, and related power cord be replaced with the correct size of equipment required by the electrical code. If the generator is to be used at all of the Agency's sites, additional circuit protection will need to be provided and the power cord and receptacles will need to be sized for the largest load of all of the sites.

If desired by the Agency, modifications and replacement of the power cord for the existing generator and related receptacles could be included in the manual transfer switch addition project.

MARINA WEST
5/23/2013
PAGE 4

III. GENERATOR OPTIONS

We understand that the Agency intends to utilize a trailer-mounted standby generator (using either the existing generator or purchasing a new generator) for use at multiple facilities. Based on the minimum generator sizes set forth above, the following table summarizes which facilities could be operated by a given generator size:

Facility	Facilities Capable of Operating Using the Following Generators				
	40 kW Generator	60 kW Generator	150 kW Generator	175 kW Generator	Existing 185 kW Generator
Wells No. 2 and No. 3			X	X	X
Well No.4			X	X	X
Wells No. 6 and No. 7				X	X
Well No. 8				X	X
Well No. 9			X	X	X
Well No. 10 ⁽¹⁾	N/A	N/A	N/A	N/A	N/A
Booster C			X	X	X
Booster A	X				
Jemez Office (Full Load) ⁽²⁾		X			
Jemez Office (Reduced Load) ⁽³⁾	X				

- (1) Well No. 10 currently has a 45 kW trailer-mounted generator onsite that we understand is intended for exclusive use at Well No. 10.
- (2) Full load at the Jemez Office includes operating both the A/C and water heater.
- (3) Reduced load at the Jemez Office does not include operating the A/C and water heater.

MARINA WEST
5/23/2013
PAGE 5

IV. BUDGETARY COSTS FOR A NEW STANDBY GENERATOR

We contacted several generator manufacturers to obtain budgetary pricing for a portable generator capable of providing the required electrical power for use at any of the Agency's sites.

The budgetary prices provided below include a Tier 4 emission rated generator (as required by California Air Resources Board (CARB)), trailer, freight, battery charger, and block heaters. Additional costs would be incurred for tax, power cords, transformer, plugs, receptacles, etc.

Manufacturer	Generator Size	Model	Budgetary Cost	Vendor
Caterpillar	200 kW	XQ200	\$117,000	Johnson Power (Riverside)
Cummins	200 kW	C200D6R	\$90,000	Power Generation Sales (Bloomington)
Kohler	175 kW	DCA2220SSCU	\$112,000	Bay City Electric Works (San Bernardino)

RER/SAN/blt
997-6P5-MW-M1

AGENDA ITEM # 7

**BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL**

Meeting Date: October 28, 2014

To: Board of Directors

Budgeted: N/A

Budgeted Amount: N/A

Cost: N/A

Funding Source: N/A

From: Marina D. West

General Counsel Approval: N/A

CEQA Compliance: N/A

Subject: Ames/Reche Groundwater Storage and Recovery Project: Receive and File Stipulated Amended and Restated Judgment for the Management of the Ames Valley Water Basin

SUMMARY

Attached is the executed Stipulated Amended and Restated Judgment for the management of the Ames Valley Water Basin which has been executed by the court of jurisdiction.

RECOMMENDATION

That the Board considers taking the following action(s):

1. Receive and file the Stipulated Amended and Restated Judgment for the Ames Valley Water Basin.

BACKGROUND/ANALYSIS

In the late 1980's Hi Desert Water District (HDWD) drilled the "Mainstream Well" (HDWD 24) within the Sphere of Influence of the then active Desert View County Water District. The well was completed in early 1988 and became fully operational by late 1988. It was in January 1989 that Bighorn Mountains Water Agency and Desert View County Water District filed a Petition for Writ of Mandate and Complaint for Declaratory Relief in the San Bernardino County Superior Court (later transferred to Riverside County Superior Court). By mid-1990, Desert View County Water District had successfully consolidated with the Bighorn Mountains Water Agency into the Bighorn-Desert View Water Agency (BDVWA).

In 1991, the Court entered a Stipulated Judgment resolving the litigation and the Ames Valley Water Basin Agreement (Agreement) was executed by Hi Desert Water District and Bighorn-Desert View Water Agency.

In early May 2000, BDVWA notified HDWD that water levels had fallen in excess of criteria set by the Agreement and Judgment but the entities could not effectively agree on how to operate Well 24 going forward so the matter was submitted for arbitration. The controversies brought into arbitration were ultimately argued and without proof demonstrating that Well 24 production was impacting BDVWA Well Nos. 2, 3, 4 and 8 there was no reduced pumping mandated for the coming year. However, the Judge ordered that the monitoring plan be revised with further instruction that BDVWA and HDWD meet and confer regarding the long-

term effects of HDWD 24 production on the groundwater basin. The Judge also questioned why BDVWA was adverse to HDWD's proposal to use recharge water (i.e. State Water Project) to replace water taken from Well 24 and used outside the Ames Basin.

The Ames Valley Water Basin Agreement was further modified in November 2001 and April 2002. These modifications did not change the spirit of the Agreement just administrative functions.

The record shows there were no further challenges to the Agreement between 2002 and 2008 but various BDVWA managers held meetings with HDWD and Mojave Water Agency (MWA) managers to discuss the future of the Agreement and the potential for recharge operations in the Ames Basin. During this time frame the BDVWA Board of Directors made decisions leading in the direction of a new groundwater management plan and a regional groundwater recharge facility.

In 2006, the Board authorized the signing of the Environmental Protection Agency State and Tribal Assistance Grant (EPA STAG) Agreement for \$477,000 which was to cover 55% of project costs. In other words, for every dollar spent, BDVWA would receive \$0.55 in reimbursement. The approved EPA STAG Workplan included tasks related to the completion of a Groundwater Management Plan project and a groundwater recharge project. Unrelated to the grant was completion of the *Basin Conceptual Model and Assessment of Water Supply and Demand in the Ames Valley, Johnson Valley and Means Valley Groundwater Basins* received by the Board in mid-2007 and by late 2007 a professional services agreement was awarded for preparation of the environmental documentation necessary to proceed with a project. Finally, in early 2008 the Agency attorney was tasked with developing a report on the status and history of monitoring of the Reche Subbasin pursuant to the Agreement. Subsequent to the release of this report the Agency's general manager resigned.

In May 2008, the Board authorized the new general manager to seek formal partnerships with interested parties to participate financially in the EPA program. This effort began with the creation of the "*Strawman*" *Guidance Document for the Development of a Groundwater Management Plan and Conjunctive Use Program for the Ames Basin*. The "strawman" was discussed and vetted through the interested parties and was adopted by the BDVWA Board via resolution in January 2009. Ultimately, HDWD, County Special Districts (Zone W-1 and W-4) and MWA adopted the "strawman" principles. This acceptance led to the development of a Memorandum of Understanding (MOU) with the Mojave Water Agency for financial participation via match funding for the EPA STAG as well as commitment of up to \$1,000,000 funding to build the project.

Once funding was secured, staff developed a Request for Proposals to provide project management, permitting and a feasibility study which included the construction of two groundwater monitoring wells. Later this contract was amended to include additional assistance in negotiating the new management framework aimed at replacing the aged Ames Valley Water Basin Agreement and associated Judgment.

In March 2010, the Board began reviewing the progress of the negotiations which had been titled the "Principles of Agreement" between BDVWA, HDWD, MWA and County Special Districts outlining the future of groundwater management for the Reche Groundwater Subbasin. These Principles were discussed and vetted through the various entities until they were formally adopted by all parties by early 2012.

In July 2010, the Board adopted the final environmental documentation process in compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). In early 2012 the Board received the completed Groundwater Management Plan document. By late 2012, the federal agencies had completed their assessment of the NEPA document. Subsequently, the permitting processes and formal state and federal approvals were obtained, mitigation lands for tortoise and desert wash impacts were purchased and the Bureau of Land Management (BLM) had executed the Right-of-Way Grant for the construction and operation of the recharge facilities and associated pipeline. At this point, MWA took the lead on the project and retained an engineering firm to design the project. Project design was completed for the pipeline extension, bids were solicited and MWA awarded the pipeline construction contract in April 2013. MWA and BDVWA executed another MOU in April 2013 obligating MWA to operate and maintain the recharge facility in perpetuity and in compliance with all state and federal permits.

Following completion of the pipeline extension, MWA used its own staff to develop the "wetted" recharge area by constructing berms in the bottom of the wash. Due to limitations in the availability of State Project Water there was only 10 acre-feet available to "test" the facility and the project was finally deemed operational in November 2013. The process of amending the Judgment began immediately thereafter. The attached Judgment was executed on September 17, 2014 by Sharon J. Waters, Judge of the Superior Court of Riverside County. This action completes the projects stated objectives.

Since 2014 was another dry year, allocations to the Morongo Basin Pipeline were not available until October. On October 13th, MWA resumed activities with the goal of recharging 40 acre feet.

Total project costs are summarized below:

BDVWA EPA STAG contribution:	\$409,292
BDVWA legal costs (not reimbursed by MWA):	43,053
BDVWA project expenses (reimbursed by MWA):	<u>479,530</u>
Sub-Total	\$931,875

MWA's direct costs for project design, construction and other costs were unknown at the time of agenda publication but it is expected that MWA's total costs are near the \$1,000,000 pledged to the project.

Staff recommends that the Board take action to receive and file the final Judgment.

PRIOR RELEVANT BOARD ACTION(S)

8/27/2013 Motion No. 13-065 Motion to receive and file the Certificate of Recognition presented to Bighorn-Desert View Water Agency and Mojave Water Agency on behalf of the California State Senate recognizing the Ames/Reche Recharge Project Grand Opening Ceremony.

4/23/2013 Motion No. 13-027 Authorize General Manager to execute the Ames/Reche Groundwater Storage and Recovery Program Memorandum of Understanding between Bighorn-Desert View Water Agency and Mojave Water Agency regarding operation and maintenance of the facility.

4/3/2013 Planning/Legislative/Engineering/Grant/Security Committee review legal counsel response to Board questions regarding Memorandum of Understanding.

3/26/2013 Board reviewed the Ames/Reche Groundwater Storage and Recovery Program Memorandum of Understanding between Bighorn-Desert View Water Agency and Mojave Water Agency.

1/22/2013 Motion No. 13-008 Ames/ Reche Groundwater Storage and Recovery Program – Receive and File Executed California Department of Fish and Game Incidental Take Permit No. 2081-2012-020-06.

11/27/2012 Motion No. 12-081 Receive and File Various Permits and Notices Obtained for the Ames/Reche Groundwater Storage and Recovery Program identified as; a) Letter of “Non-jurisdictional” Authority; County of San Bernardino, Department of Public Works, July 2010. b) Approved Jurisdictional Determination regarding presence/absence of geographic jurisdiction (pertains to Section 404 Streambed Alteration); U.S. Army Corps of Engineers, June 10, 2011. c) Streambed Alteration Agreement (Section 1600); California Department of Fish and Game, August 2, 2011. d) National Environmental Policy Act (NEPA) – Decision Record; U.S. Department of the Interior, Bureau of Land Management, August 2012. e) National Environmental Policy Act (NEPA) – Finding of No Significant Impact (FONSI); U.S. Department of the Interior, Bureau of Land Management, August 2012.

10/16/2012 Motion No. 12-073 Resolution No. 12R-30 – Adopting the Water Infrastructure Restoration Program: Ames/Reche Groundwater Storage and Recovery Program; and Pipeline Installation/Replacement Project Mitigated Negative Declaration – Addendum Ames/Reche Groundwater Storage and Recovery Program (Addendum No. 2).

10/16/2012 Motion No. 12-072 Authorize General Manager to execute Right-of-Way Grant/Temporary Use Permit, Serial Number CACA-50962 for construction, operation and maintenance of the Ames/Reche Groundwater Recharge Facilities; and Authorize payment of rents for a period of up to 30 years at a cost not to exceed \$20,000, upon receipt of revised document reflecting reduced project dimensions.

9/13/2012 Motion No. 12-070 Authorize General Manager to enter into Agreement between Bighorn-Desert View Water Agency and the Desert Tortoise Preserve Committee, Inc. for the purchase of and permanent preservation of 6.13 acres of mitigation lands for the Ames/Reche Project for a total of \$30,650.00; and Provide for an estimated \$3,000 for review of title and other documents related to the transfer of compensated lands to the California Department of Fish and Game.

1/10/2012 Motion No. 12-004 Approve the Ames/Reche Groundwater Storage and Recovery Program and Management Agreement.

11-30-2011 Motion No. 11-066 Adopting the Water Infrastructure Restoration Program: Ames/Reche Groundwater Storage and Recovery Program; and Pipeline Installation/Replacement Project Mitigated Negative Declaration - Addendum 1 Ames/Reche Groundwater Storage and Recovery Program.

6/30/2012 Motion No. 10-045, Resolution No. 10R-04 A Mitigated Negative Declaration for the Water Infrastructure Restoration Program Ames/Reche Groundwater Storage and Recovery Program and Pipeline Installation/Replacement Program

6/15/2010 Public Hearing: Notice of Intent to Adopt a Mitigated Negative Declaration (MND) pertaining to the Water Infrastructure Restoration Program: Ames/Reche Groundwater Storage and Recovery Program; and Pipeline Installation/Replacement Project.

11/8/2001 Ames Valley Water Basin Agreement between Hi Desert Water District and Bighorn-Desert View Water Agency: Court’s Ruling and Related Order on Hi Desert Water District’s Motion to Reform the Judgment

2/6/1997 Execution of Amendment #2 to the Ames Valley Water Basin Agreement b



COPY

FAKED

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FILED
SUPERIOR COURT OF CALIFORNIA
COUNTY OF RIVERSIDE

SEP 17 2014

L. Hall

7 Attorneys for Petitioner and Plaintiff
8 BIGHORN-DESERT VIEW WATER AGENCY

9 SUPERIOR COURT OF THE STATE OF CALIFORNIA

10 COUNTY OF RIVERSIDE

11 **RIC**

12 BIGHORN MOUNTAINS WATER
13 AGENCY, a public entity, and DESERT
VIEW WATER DISTRICT, a public entity,

Case No. 211504

**STIPULATION AND [PROPOSED]
AMENDED AND RESTATED
JUDGMENT**

14 Petitioners and Plaintiffs,

15 v.

16 HI-DESERT WATER DISTRICT, a public
entity,

17 Respondent and Defendant.

18 MAINSTREAM WATER
19 DEVELOPMENT COMPANY, a California
limited partnership; MIKE V. PAGE, an
20 individual doing business as
MAINSTREAM WATER
21 DEVELOPMENT COMPANY; and DOES
1-25,

22 Real Parties in Interest.
23

IRW RICHARDS | WATSON | GERSHON
ATTORNEYS AT LAW - A PROFESSIONAL CORPORATION

Amended and Restated Judgment

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1 This Stipulated Amended and Restated Judgment is made and entered into by and
2 between Bighorn-Desert View Water Agency, Hi-Desert Water Agency, Mojave Water
3 Agency, County of San Bernardino Service Area No. 70 W-1 Landers, and County of San
4 Bernardino Service Areas No. 70 W-4 Pioneertown (singularly "Party," or collectively the
5 "Parties"), and based upon the following facts:

6 On June 3, 1991, this Court entered a Judgment ("the Judgment" hereinafter)
7 pursuant to a Stipulation for Judgment entered into by Bighorn-Desert View Water Agency
8 ("BDV" hereinafter) and Hi-Desert Water District ("Hi-Desert" hereinafter). The Judgment
9 specifically concerned Hi-Desert's proposed construction of a new production well
10 ("Mainstream Well" hereinafter) to be located in an area between Bighorn and Hi-Desert
11 service areas and more generally concerning the maintenance of an area referred to as Ames
12 Valley Water Basin as a sustained source of groundwater for the beneficial use of BDV, Hi-
13 Desert and their ratepayers. The Ames Valley Water Basin was found to consist of the
14 Pipes and Reche Subbasins. The Judgment required monitoring of the subject groundwater
15 supplies as to quantity and quality and the regulation of production from the Mainstream
16 Well subject to this Court's continuing jurisdiction.

17 Paragraph 13 of the Judgment was stricken by Order of this Court dated September
18 20, 2011.

19 Effective May 29, 2012, BDV, Hi-Desert, Mojave Water Agency ("MWA"
20 hereinafter), County of San Bernardino Service Area No. 70 W-1 Landers ("W-1"
21 hereinafter) and County of San Bernardino Service Area No. 70 W-4 Pioneertown ("W-4"
22 hereinafter) entered into an agreement providing for more comprehensive regulation of the
23 groundwater supplies protected in the Judgment, including the provision of supplemental
24 water supplies for beneficial use, the allocation of water production, storage and transfer
25 rights to all of the public entity water retailers utilizing the subject groundwater supply, and
26 continuing monitoring of water supply quantities and qualities, all subject to this Court's
27 continuing jurisdiction. All of those Parties have stipulated to this Court's entry of this
28 Amended and Restated Judgment, a motion has been filed asking the Court to do so and

1 MWA, W-1 and W-4 have moved to intervene as parties herein to receive the benefits and
2 undertake the obligations provided for herein.

3 Portions of the groundwater basin referred to in the Judgment as Ames Valley
4 Groundwater Basin now are commonly referred to as the Pipes and Reche Groundwater
5 Sub-basins and, together with that area commonly referred to as Pioneertown, form a
6 management area for purposes of this Amended and Restated Judgment that is referred to
7 herein as "the Basin." The boundaries of the Basin are generally described in Exhibit A
8 and depicted on Exhibit B hereto. The Parties hereto have conducted studies which indicate
9 that substantial portions of the Basin are likely overdrafted and that approximately 400,000
10 acre-feet or more of subsurface storage space is available in the Basin. The studies
11 conducted by the Parties have also estimated the amount of water available perennially in
12 the Basin due to natural supplies, the amount of water produced from the Basin from
13 calendar year 2004 through calendar year 2008, and the feasibility of a project by which
14 MWA would import and recharge state project water to the Basin, thereby supplementing
15 the local water supply.

16 MWA has constructed and shall maintain and operate recharge facilities ("the
17 Recharge Facilities" hereinafter) on that land leased by BDV described and depicted on
18 Exhibit C hereto at its sole cost subject to all regulatory requirements. Those facilities
19 include pipeline and ancillary structures and equipment necessary to connect the Recharge
20 Facilities to MWA's Morongo Pipeline, all as described in that BDV California
21 Environmental Quality Act document approved on June 29, 2010 and entitled "Bighorn
22 Desert View Water Agency (BDVWA) Mitigated Negative Declaration for Water
23 Infrastructure Restoration Program (WIRP): Ames/Reche Groundwater Storage and
24 Recovery Program; and Pipeline Installation/ Replacement Program and the Ames/Reche
25 Groundwater Management Plan."

26
27 ///

28 ///

1 NOW, THEREFORE, the Parties stipulate to the Court's execution of an Amended
2 and Restated Judgment, stating as follows:

3 1. This Amended and Restated Judgment shall replace and supersede the
4 Judgment and each and every term and provision contained therein.

5 2. This Court has jurisdiction of the subject matter of this action and jurisdiction
6 over each of the Parties, i.e., the public entities having continuing rights, duties and
7 obligations under the terms and provisions of this Amended and Restated Judgment:

8 (a) Bighorn-Desert View Water Agency, a public entity organized and
9 operating pursuant to the provisions of the Bighorn Desert View Water Agency law,
10 California Water Code Appendix, Sections 112-1, *et seq.*;

11 (b) Hi-Desert Water District, a county water district organized and
12 operating pursuant to the provisions of the County Water District law, California Water
13 Code Sections 30000, *et seq.*;

14 (c) Mojave Water Agency, a public entity organized and operating
15 pursuant to the provisions of the Mojave Water Agency law, California Water Code
16 Appendix Sections 97-1, *et seq.*;

17 (d) County of San Bernardino Service Area No. 70 W-1 Landers, a public
18 entity governed by the San Bernardino County Board of Supervisors pursuant to the
19 provisions of California Government Code Sections 25210, *et seq.*; and

20 (e) County of San Bernardino Service Area No. 70 W-4 Pioneertown, a
21 public entity governed by the San Bernardino County Board of Supervisors pursuant to the
22 provisions of California Government Code Sections 25210, *et seq.*

23 3. Each Party hereto hereby is prohibited and enjoined from producing or
24 storing water in the Basin or any portion or portions thereof which is not based on
25 production and storage rights articulated in this Amended and Restated Judgment.

26 4. There hereby is established for BDV, W-1, W-4 and Hi-Desert the following
27 water production allowances ("Annual Baseline Amounts" hereinafter) based upon a
28 methodology agreed to by the Parties. The Annual Baseline Amounts are based upon 135%

1 of amounts produced from the Basin by the Parties from calendar year 2004 through
2 calendar year 2008, as verified by meter readings or energy usage data:

3 <u>Party</u>	<u>Annual Baseline Amount</u>
4 CSA 70 .Z. W-1 (Landers)	267 Acre Feet
5 CSA 70 .Z. W-4 (Pioneer Town)	35 Acre Feet
6 Hi-Desert Water District	703 Acre Feet
7 Bighorn Desert View Water Agency	641 Acre Feet

8 Commencing upon entry of this Amended and Restated Judgment, each Party shall
9 have the right to produce native water from the Basin in each fiscal year (July 1 - June 30)
10 equal to its Annual Baseline Amount, prorated for any partial fiscal year on a 365 day year
11 basis, subject to the terms and provisions hereof. Any Party withdrawing less than its
12 Annual Baseline Amount in any fiscal year may carryover its right to produce that
13 unproduced amount for the next two fiscal years. The first water produced at any time by
14 any Party shall be deemed to be water credited to the Party which has been carried over for
15 two fiscal years and the next water produced by that Party shall be deemed to be water
16 credited to that Party which has been carried over for one fiscal year. Any Annual Baseline
17 Amount not produced by that Party, or any transferee of that right, for more than said two
18 fiscal years shall be deemed to be abandoned and the right to produce it knowingly and
19 intentionally waived and relinquished. No Party or other person or entity shall have the
20 right to produce such abandoned carryover which shall serve to provide protection against
21 over production of Basin water. Further, the Parties have agreed and are deemed to have
22 waived and relinquished any right they might assert to produce return flows emanating
23 from state project water percolated into the Basin on their account through the Recharge
24 Facilities.

25 5. Subject to the provisions of paragraph 7 and 9 hereof, BDV, W-1, W-4 and
26 Hi-Desert may purchase state project water from MWA to be percolated into the Basin at
27 the Recharge Facilities and later withdrawn from the Basin by the purchasing entity. MWA
28 shall maintain storage accounts reflecting the amount of water in storage in the Basin by

1 each other Party due to state project water percolated in the Basin on its behalf by MWA.
2 Amounts withdrawn above a Party's Annual Baseline Amount must be based on water then
3 credited in that Party's storage account. State Project water purchases are not subject to the
4 maximum two year carryover imposed on the production of Annual Baseline Amounts. No
5 Party shall produce water from the Basin not based upon either the Party's available Annual
6 Baseline Amount or water present in its storage account except pursuant to an order of the
7 Court obtained in accordance with the procedure referred to below, except pursuant to
8 adjustment of the Annual Baseline Amounts in accordance with paragraph 10 hereof. No
9 person or entity not a Party to this Amended and Restated Judgment shall store or be
10 allowed to store water in the Basin.

11 A Party may by written motion seek an order of the Court which provides that it may
12 produce water from the Basin in excess of water based upon its Annual Baseline Amount,
13 carryover rights or stored water in its account provided that the following criteria are met:

14 A. The hearing of the motion must be upon at least 90 days' written notice
15 provided to the other Parties hereto; and

16 B. At a minimum, the moving Party shall provide substantial evidence
17 demonstrating that it has exhausted all reasonably available means to meet its demands
18 based on water rights allocated hereunder, including, but not limited to, seeking in writing
19 to purchase or lease other Parties' production rights at reasonable prices.

20 6. Subject to the provisions of paragraph 7 and 9 hereof, MWA may percolate
21 state project water into the Basin for its own account for subsequent sale, production and
22 use in any location within MWA's physical boundaries so long as such activity does not
23 substantially impair or inhibit any other Party's use of the Basin as a source of water for its
24 residents and businesses.

25 7. Five percent (5%) of all State Project water percolated into the Basin at the
26 Recharge Facilities pursuant to orders from and for the banked credit of Hi-Desert, W-1 or
27 W-4 shall be credited to the BDV storage account in consideration of various efforts and
28 expenses undertaken by BDV in connection with the use of the site leased by BDV for the

1 Recharge Facilities without regard to which Party hereto other than BDV has purchased or
2 owns the right to such water when so percolated. The Parties also recognize that BDV
3 production results in return flows to the Basin to a degree substantially greater than the
4 other Parties. For example, if MWA chooses to sell the water in storage to meet its IDM
5 contractual obligations, MWA will charge the buyer only for the water credited to the
6 buyer's account (95% of original water stored) with the balance credited to the BDV
7 storage account. If a buyer requests transfer of water stored by MWA into buyers account,
8 MWA will charge the buyer for the entire amount (100% of original water stored). All
9 charges will be at the then current pricing policy of the MWA Board.

10 8. Water production rights as specified herein may be transferred from any Party
11 hereto to any other Party hereto permanently or for any delineated period of time. A
12 transfer of rights carried over by a Party as provided in paragraph 4 hereof shall not extend
13 the two year period in which those rights must be exercised.

14 9. MWA shall offer water available for storage and later extraction through the
15 Recharge Facilities to the other four Parties hereto whenever such water is made available
16 to MWA from time to time in accordance with the policies and agreements concerning
17 water allocation adopted by MWA as may be amended from time to time.

18 10. MWA shall administer a monitoring program to ensure protection of the
19 Basin as a water supply and storage facility for the Parties hereto and their end users. The
20 monitoring program will utilize the wells identified in Exhibit C hereto at a minimum. At
21 MWA's direction, additional wells may be added to or removed from the program to
22 provide a more accurate depiction of the state of the Basin as to maintenance of supplies
23 and water quality. In accordance with schedules and protocols reasonably satisfactory to
24 and approved in writing by the other Parties' general managers, the participants will take
25 groundwater level measurement and samples for quality testing. BDV, W-1, W-4 and Hi-
26 Desert agree to provide to MWA each year, no later than July 10, for the immediately prior
27 12 months (July 1 - June 30), the water level and water quality laboratory analysis collected
28 during the prior year in accordance with the approved monitoring program.

1 11. BDV, W-1, W-4 and Hi-Desert agree to provide to MWA each year no later
2 than July 10, the meter readings, electrical records and any available data reflecting the
3 production of water from the Basin from all of the entities' wells for the immediately prior
4 12 months (July 1 - June 30). On or before the following September 1, MWA shall provide
5 to the other Parties a report which compiles all water production, water quality and Basin
6 well elevation data for the immediately previous fiscal year (June 30 - July 1). Every five
7 years, the MWA report shall make recommendations on the Parties' ability to produce their
8 Annual Baseline Amounts commencing in the following current fiscal year and any other
9 recommendations for actions which MWA believes are required to protect the Basin water
10 supply based on the Ames/Reche Groundwater Management Plan. To ensure maintenance
11 of Basin elevations at acceptable levels and still allow withdrawals and utilization of basin
12 resources, and with the unanimous agreement of the general managers of BDV, W-1, W-4
13 and Hi-Desert, the Annual Baseline Amount for each such Party may be reduced or
14 increased by the same percentage for an annual or other specified period. The first
15 determination on such potential reduction or increase shall occur within 90 days of MWA
16 issuing its first report required hereunder. Records of any changes to Parties' Annual
17 Baseline Amounts made pursuant to this paragraph shall be made and maintained by MWA,
18 and included in each annual report required hereunder, yet shall not constitute an
19 amendment to this Agreement or the Amended and Restated Judgment, and shall not
20 require approval by or notification to the Court.

21 12. Each Party shall indemnify, hold harmless and assume the defense of the
22 other Parties, their officers, agents, employees, and elective boards, and that Party shall pay
23 all court costs and reasonable attorneys fees relating thereto, in any action, with respect to a
24 claim, loss, damage or injury, asserted by a third party against any Party entitled to
25 indemnification under this Agreement, and arising out of a negligent act, error or omission,
26 or willful misconduct, of an employee or agent of the Party whose actions under this
27 Judgment gave rise to such third-party claim.

28 13. Any notice, tender or delivery to be given hereunder by any Party to another

1 Party or Parties shall be effected by personal delivery in writing or by registered or certified
2 mail, postage prepaid, return receipt requested, and shall be deemed communicated as of
3 mailing or in case of personal delivery, as of actual receipt. Mailed notices shall be
4 addressed as set forth below, but each Party may change its address by written notice in
5 accordance with this paragraph.

6 To: Hi-Desert Water District
7 55439 29 Palms Hwy.
8 Yucca Valley, CA 92284
Attention: General Manager

9 To: Bighorn-Desert View Water Agency
10 622 S. Jemez Trail
Yucca Valley, CA 92284
Attention: General Manager

11 To: County of San Bernardino Special District
12 County Service Area No. 70
13 12402 Industrial Blvd., Building D, Suite 6
Victorville, CA
Attention: General Manager

14 To: Mojave Water Agency
15 13846 Conference Center Drive
16 Apple Valley, CA 92307
Attention: General Manager

17 14. Full jurisdiction, power and authority shall be retained and reserved by the
18 Court for the purpose of enabling the Court, upon application of any Party hereto by motion
19 and upon at least thirty (30) days notice thereof, after hearing thereon, to make such further
20 or supplemental orders or directions as may be necessary or appropriate for the
21 construction, enforcement or implementation of this Amended and Restated Judgment,
22 including independent review of any decision presented to the General Managers of BDV,
23 W-1, W-4, Hi-Desert and MWA under paragraph 11 of this Amended and Restated
24 Judgment which is not unanimously approved. A responding and/or defending Party who is
25 determined to be a prevailing Party in any such hearing shall be entitled to recover as costs
26 upon the conclusion of such hearing all attorneys fees or other costs actually incurred in
27 connection with resolving the dispute by the making of such motion and the hearing
28 thereon.

1 15. This Amended and Restated Judgment and the provisions hereof are all
2 applicable to and binding upon not only the Parties hereto, but as well upon their respective
3 successors, assigns, lessees, licensees and the agents and employees of any such persons
4 having actual or constructive notice of this Amended and Restated Judgment from the date
5 of its filing. The injunctive provisions herein contained run equally against all such
6 persons.

7
8 IT IS SO STIPULATED.

9
10 Dated: May 23, 2014

RICHARDS, WATSON & GERSHON

11
12 By: James L. Markman
13 JAMES L. MARKMAN
14 Attorneys for Petitioner and Plaintiff
BIGHORN-DESERT VIEW WATER
AGENCY

15 Dated: May 23, 2014

BEST, BEST & KRIEGER

16
17 By: Steven M. Anderson
18 STEVEN M. ANDERSON
19 Attorneys for Respondent and Defendant
HI-DESERT WATER DISTRICT

20 Dated: June 30, 2014

BRUNICK, McELHANEY & KENNEDY


21
22 By: Lee McElhane
23 LEE McELHANEY
24 Attorneys for Intervening Party
25 MOJAVE WATER AGENCY
26
27
28

[Signatures and Order continued]

1 Dated: June 3, 2014

SOMACH SIMMONS & DUNN


2
3 By:


NICHOLAS A. JACOBS
Attorneys for Intervening Party
COUNTY OF SAN BERNARDINO
SERVICE AREA NO. 70 W-1 LANDERS

4
5
6 Dated: June 3, 2014

SOMACH SIMMONS & DUNN

7
8
9 By:


NICHOLAS A. JACOBS
Attorneys for Intervening Party
COUNTY OF SAN BERNARDINO
SERVICE AREA NO. 70 W-2
PIONEERTOWN

Sharon J. Waters

10
11
12
13
14 IT IS SO ORDERED:

15
16 Dated: SEP 17 2014

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Judge of the Superior Court

PROOF OF SERVICE

I, Linda I. Pomatto, declare:

I am a resident of the State of California and over the age of eighteen years and not a party to the within action. My business address is 355 South Grand Avenue, 40th Floor, Los Angeles, California 90071-3101. On September 4, 2014, I served the within document(s) described as:

STIPULATION AND [PROPOSED] AMENDED AND RESTATED JUDGMENT

on the interested parties in this action as stated below:

BEST, BEST & KRIEGER
Steve M. Anderson
3390 University Avenue, 5th Floor
Riverside, California 92501

SOMACH SIMMONS & DUNN
Nicholas A. Jacobs
500 Capitol Mall, Suite 1000
Sacramento, California 95814

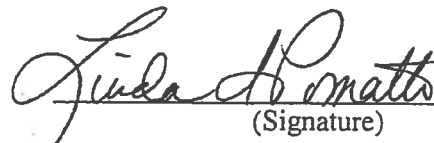
BRUNICK, MC ELHANEY & BECKETT,
DOLAN and KENNEDY
Leland McElhaney
1839 Commercenter West
P.O. Box 13130
San Bernardino, CA 92423-3130

☒ (BY MAIL) By placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth above. I placed each such envelope for collection and mailing following ordinary business practices. I am readily familiar with this Firm's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service on that same day, with postage thereon fully prepaid at Los Angeles, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on September 4, 2014, at Los Angeles, California.

Linda I. Pomatto
(Type or print name)


(Signature)

RICHARDS, WATSON & GERSHON
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Attorneys for BIGHORN-DESERT VIEW WATER
AGENCY

**SUPERIOR COURT OF THE STATE OF CALIFORNIA
COUNTY OF RIVERSIDE**

BIGHORN MOUNTAINS WATER
AGENCY, a public entity, and DESERT
VIEW WATER DISTRICT, a public entity,

Petitioners and Plaintiffs,

v.

HI-DESERT WATER DISTRICT, a public
entity,

Respondent and Defendant;

MAINSTREAM WATER
DEVELOPMENT COMPANY, a California
limited partnership; MIKE V. PAGE, an
individual doing business as
MAINSTREAM WATER
DEVELOPMENT COMPANY; and DOES
1-25,

Real Parties in Interest.

Case No. RIC 211504

**NOTICE OF TENTATIVE RULINGS RE
(1) MOTION TO INTERVENE; AND
(2) MOTION TO AMEND
JUDGMENT**

Date: August 7, 2014
Time: 8:30 a.m.
Dept: 1

1 TO ALL PARTIES AND THEIR ATTORNEYS OF RECORD HEREIN:

2 PLEASE TAKE NOTICE that Department 1 of the above-referenced court has
3 issued a tentative ruling, (1) granting the motion to intervene filed by Mojave Water
4 Agency "Mojave"), the County of San Bernardino Service Area No. 70 W-1 Landers
5 ("Landers"), and the County of San Bernardino Service Area No. 70 W-4 Pioneertown
6 ("Pioneertown"); and (2) granting Bighorn-Desert View Water Agency's and Hi-Desert
7 Water District's motion to amend the judgment. Attached as Exhibit "A" is a true and
8 correct copy of that tentative ruling, also indicating that (1) Mojave, Landers and
9 Pioneertown would be added as defendants; (2) the Amended Judgment would be entered
10 against them (and binding on all stipulating parties); and (3) that the Court would sign the
11 proposed Amended Judgment.

12 Both these motions were unopposed, and the proposed Amended Judgment was
13 stipulated to by all parties. Thus, no requests for oral argument will be necessary. Also, no
14 appearances will be necessary at the August 7, 2014 hearing.

15
16 Dated: August 6, 2014

RICHARDS, WATSON & GERSHON

17
18 By: 

19 B. TILDEN KIM
20 Attorneys for Petitioner and Plaintiff
21 BIGHORN-DESERT VIEW WATER
22 AGENCY
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Tentative Rulings for August 7, 2014 Department 1

To request oral argument, you must notify Judicial Secretary CAMEO M. GALLO at (760) 904-5722 and inform all other counsel no later than 4:00 p.m.

This court follows California Rules of Court, Rule 3.1308 (a) (1) for tentative rulings (see Riverside Superior Court Local Rule 3316). Tentative Rulings for each law & motion matter are posted on the Internet by 3:00 p.m. on the court day immediately before the hearing at <http://www.riverside.courts.ca.gov/tentativerulings.shtml>. If you do not have Internet access, you may obtain the tentative ruling by telephone at (760) 904-5722.

To request oral argument, not later than 4:00 p.m. on the court day before the hearing you must (1) notify the judicial secretary for Department 1 at (760) 904-5722 and (2) inform all other parties. If no request for oral argument is made by 4:00 p.m., the tentative ruling **will become the final ruling** on the matter effective the date of the hearing.

Unless otherwise noted, the prevailing party is to give notice of the ruling.

1.

RIC211504	BIGHORN MOUNTAINS VS HI-DESERT	MOTION TO/FOR APPROVE STIPULATED AMENDED AND RESTATED JUDGMENT BY HI-DESERT WATER DISTRICT
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Tentative Ruling: Granted. Court will sign proposed amended judgment.

2.

RIC211504	BIGHORN MOUNTAINS VS HI-DESERT	MOTION TO/FOR INTERVENTION NON-OPPOSED BY MOJAVE WATER AGENCY, COUNTY OF SAN BERNARDINO SERVICE AREA NO 70, COUNTY OF SAN BERNARDINO SERVICE AREA NO 70
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Tentative Ruling: Granted. Mojave Water Agency, San Bernardino Service Area No. 70 W-1 Landers and San Bernardino Service Area No. 70 W-4 Pioneertown shall be added as defendants and the amended judgment, per the accompanying motion, shall be entered against them.

EXHIBIT "A"

AGENDA ITEM # 9



Date: October 19, 2014
 To: Marina West
 From: Destiny Diaz
 Subject: Service Order Report for September 2014

SERVICE ORDER REPORT FOR FISCAL YEAR 2013-2014

	J	A	S	O	N	D	J	F	M	A	M	J	YTD
After Hours Call Out	3	3	2										8
AirVac Maintenance	0	1	0										1
AirVac Replacement	3	5	6										14
Booster Repair/Maintenance (New Category)	0	0	0										1
Bulk Stations: Maintenance	0	0	3										3
Close Account	10	16	21										47
Customer Requested Asst	3	6	6										15
Reported Leaks	1	0	5										6
Destroy Service Line	0	0	0										0
Exchange Meter	2	1	2										5
Facility Inspections*	4	6	1										11
Fire Flow Test	0	1	1										2
Flush Deadend/Blowoffs	0	0	0										0
General Maintenance	0	0	2										2
Hangtag	11	8	10										29
Hydrant Maint.	0	0	1										1
Install New Service	0	0	0										0
Lock-Off's	10	11	16										37
Miscellaneous	19	8	6										33
Office Repairs	0	0	0										0
Open New Service	10	16	21										47
Pressure Complaint	1	0	1										2
Pull Meter	0	0	0										0
Read Meter	7	0	3										10
Repair Mainline	4	0	0										4
Repair Service Line	1	3	2										6
Replace Service Line	5	10	2										17
Reread Meter	23	18	12										53
Safety Meeting	2	2	4										8
Tamper	1	2	0										3
Tank/Reservoir Maintenance/Repairs	0	1	0										1
Unlock Service	15	15	12										42
Valve Maintenance	0	0	0										0
Verify Meter Locked	5	3	6										14
Water Quality Issues **	2	0	1										3
Well Repairs/Maint. And Water Level	0	1	0										1
TOTAL	142	137	146	0	0	0	0	0	0	0	0	0	425

*Includes Inspections for Fire Extinguishers, Vehicles and Facilities

** Includes Water Quality (taste, odor, color)



DATE: 10/2/2014
TO: Board of Directors
FROM: Kit Boyd
RE: Sep Production

	<u>Cubic Feet Pumped</u>	<u>Total Gallons Pumped</u>	<u>Average GPM</u>	<u>Total Running Time</u>	<u>acre feet</u>
Well 2	Well is "inactive"				
Well 3	558,420	4,176,982	409	170.2	12.82
Well 4	Well is "inactive"				
Well 6	53,700	401,676	401	16.7	1.23
Well 7	380,070	2,842,924	358	132.2	8.73
Well 8	126,000	942,480	913	17.2	2.89
Well 9	422,300	3,158,804	658	80	9.69
Well 10	22,310	166,879	65	42.5	0.51
Total	1,562,800	11,689,744	425	458.8	35.88
A Boosters	81,860	612,313	141	72.5	
C Boosters	181,900	1,360,612	192	117.9	
Total	263,760	1,972,925			

Bighorn-Desert View Water Agency

Board of Directors

Judy Corl-Lorono, President
J. Dennis Staley, Vice President
Terry Burkhardt, Secretary
Michael McBride, Director
J. Larry Coulombe, Director

Marina D West, PG, General Manager



Agency Office

622 S. Jemez Trail
Yucca Valley, CA 92284-1440

760/364-2315 Phone

760/364-3412 Fax

A Public Agency

www.bdvwa.org

BOARD OF DIRECTORS' REGULAR MEETING MINUTES

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, September 23, 2014 - 6:00 p.m.

Call to Order

Meeting convened by Board President Judy Corl-Lorono at 6:02 p.m.

Pledge of Allegiance

Led by Glen Goslaw.

Roll Call

Directors Present:

Judy Corl-Lorono
J. Dennis Staley
Terry Burkhardt
Michael McBride
J. Larry Coulombe

Staff Present:

Marina West
Michelle Corbin

Approval of Agenda

Motion to approve the agenda.

MSC¹ (Staley/McBride) unanimously approved.

Update on Dissolution of CSA 70/W-1 and Annexation to BDVWA

General Manager West reported on recent meeting with the Ad Hoc Committee to discuss the potential need of legal counsel. West is currently working on the five year revenue and expense report to supplement the "Plan for Services". West stated the Local Agency Formation Commission (LAFCO) hearing will "most likely" be scheduled for January 2015.

Public comments:

Anonymous stated an audit of the money currently being spent by Special Districts could undergo an audit after the Bighorn-Desert View Water Agency has completed the annexation of CSA70/W-1.

Resolution 14R-15 Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees

General Manager West gave a brief staff report. West stated the Planning/Legislative/Engineering Grant and Security Committee (PLEGS) regularly participates and listens to the Mojave Water Agency Legal/Legislative and Public Information Committee meetings. This meeting of the Mojave Water Agency has moved from the first Wednesday of the month to the third Wednesday of the month. West noted this is an administrative action and there is minimal change to the resolution.

No public comment.

Motion No. 14-047

(After brief Board discussion), Director McBride made a motion to adopt Resolution 14R-15 Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees. The motion was seconded by Director Coulombe.

MSC¹ (McBride/Coulombe)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Consent Items

- a. Financial Statements August 2014
 1. Balance Sheet
 2. Statement of Revenue and Expense
 3. General Account (Union Bank)
 4. Disbursements
 5. Local Agency Investment Fund Balance Timeline
- b. Receive and File Disbursements August 2014.
- c. Service Order Report, August 2014
- d. Production Report, August 2014
- e. Regular Board Meeting Minutes, August 26, 2014
- f. Receive and File Statement of "No Amendment Required" for the 2014 Biennial Notice for Conflict of Interest Code.

No Public comment.

Motion No. 14-048

Director Burkhart made a motion to approve consent items a - f. The motion was seconded by Vice President Staley.

MSC¹ (Burkhart/Staley)

Corl-Lorono: Y
Staley: Y
Burkhart: Y
McBride: Y
Coulombe: Y

Matters Removed From Consent Calendar

None

Communication and Information Items-

Letter received from the Special District Risk Management (SDRMA) presenting the President's Special Acknowledgement Award for the Workers' Compensation Program.

Public Comment Period

No public comment.

Verbal Reports

General Manager West reported the financial audit will be presented at the October regular Board of Directors' meeting.

Director Coulombe reported on the Morongo Basin Pipeline Commission meeting he had attended where they received the goals completed over the last ten years. Director Coulombe stated their new goals will focus on groundwater management.

Vice President Staley reported on his visit with Senator Jean Fuller.

President Corl-Lorono reported on the Municipal Advisor Council (MAC) meeting she had attended.

Future Agenda Items

No items suggested.

Adjournment – President Judy Corl-Lorono adjourned the meeting at 6:46 p.m.

Approved by:

Terry Burkhart, Secretary of the Board

MSC¹ – Motion made, seconded, and carried.