Bighorn-Desert View Water Agency

Board of Directors
Michael McBride, President
Judy Corl-Lorono, Vice President
David Larson, Secretary
Terry Burkhart, Director
J. Dennis Staley, 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 AGENDA

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, August 28, 2012 - 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. **RESOLUTION 12R-XX – A RESOLUTION OF THE BIGHORN-DESERT VIEW WATER AGENCY INCORPORATING BY REFERENCE THE STANDARD CONFLICT OF INTEREST AND DISCLOSURE CODE ADOPTED BY THE FAIR POLITICAL PRACTICES COMMISSION (moved from PLEGS Committee)**
   Board considers taking the following action(s):
   1. Review and discuss updates to existing Resolution; and
   2. Recommend to full Board the adoption of said Resolution incorporating by reference the Standard Conflict of Interest and Disclosure Code adopted by the Fair Political Practices Commission.

6. **RESOLUTION 12R-XX ESTABLISHING STANDING COMMITTEES AND AUTHORIZING THE CREATION OF AD HOC COMMITTEES**

Board considers taking the following action(s):

1. Adopt Resolution No. 12R-XX Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees.

7. REQUEST FROM JOINT POWERS INSURANCE AUTHORITY (JPIA) TO APPOINT MEMBER DIRECTOR TO JPIA BOARD OF DIRECTORS

Board considers taking the following action(s):

1. Appoint member and alternate to the JPIA Board of Directors

8. DISPOSAL OF OBSOLETE ASBESTOS CEMENT PIPE TO A FEDERALLY REGULATED LANDFILL AT AN ESTIMATED COST OF $13,025 (ESTIMATE BASED ON ACTUAL DISPOSED WEIGHT)

Board considers taking the following action(s):

1. Authorize General Manager to enter into a contract with HCI Environmental and Engineering Service to dispose of surplus asbestos cement pipe at a federally regulated landfill at an estimated cost of $13,035 (estimate based on actual disposed weight); and
2. Authorize transfer of funds from the "unencumbered cash" fund to the "Replacement and Refurbishment" fund.

9. RECOMMENDATION FROM PLANNING/ENGINEERING/LEGISLATIVE/GRANT/ SECURITY STANDING COMMITTEE REGARDING CAPITAL, REPLACEMENT AND REFURBISHMENT PROJECTS FOR FISCAL YEAR 2012/13

Board considers taking the following action(s):

1. Confirm intention to refurbish up to two (2) reservoirs in fiscal year 2012/13.

10. DISBURSEMENTS JULY 2012

Recommended Action:
Ratify Check Register (payment of bills) for July 2012.

11. 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 an item be held for discussion or further action.

a. Financial Statements July 2012
    1. Balance Sheet
    2. Statement of Revenue and Expense
    3. General Account (Union Bank)
    4. Disbursements
    5. Local Agency Investment Fund Balance Timeline
b. Consumption & Billing Comparison Report, July 2012
c. Service Order Report, July 2012
d. Production Report, July 2012
e. Regular Board Meeting Minutes, July 24, 2012
f. Receive and File Ames Valley Water Basin Monitoring Program Report, August 2012.
g. Consider Authorizing Attendance to the 2012 CSDA Annual Conference and Exhibitor Showcase September 25-27, 2012 at a Maximum Estimated Cost of $1850.00 Per Director.
h. Consider Adopting Resolution 12R-XX Establishing a Policy for Mandatory Training for Board Members.
i. Consider Adopting Resolution 12R-XX Establishing a Policy for Reimbursement of Actual and Necessary Expenses for Board Members.

j. Motion to Cancel September 25, 2012 and Cancel October 23, 2012 Regular Board of Director Meetings and Call for a Special Board of Directors' Meeting on October 16, 2012.

Recommended Action:
Approve as presented (Items a - j):

12. MATTERS REMOVED FROM CONSENT ITEMS

13. 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.

14. VERBAL REPORTS - Including Reports on Courses/Conferences/Meetings.

a. GENERAL MANAGER'S REPORT
b. DIRECTORS' REPORT
c. PRESIDENT'S REPORT

15. FUTURE AGENDA ITEMS

16. 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.

BIGHORN DESERT VIEW WATER AGENCY
PLANNING/LEGISLATIVE/ENGINNERING/GRANT/SECURITY
STANDING COMMITTEE AGENDA ITEM SUBMITTAL

Meeting Date: August 16, 2012

To: Standing Committee Members

From: Marina West

Budgeted: No
Funding Source: N/A
Cost: $0
General Counsel Approval: Obtained
CEQA Compliance: N/A

Subject: Resolution No. 12R-XX Amending the Agency's Conflict of Interest Code

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SUMMARY

The Political Reform Act requires every local agency to review its conflict of interest code biennially.

Legal counsel has reviewed the 2010 Conflict of Interest Code and has submitted a completely revised Code for the Board's adoption. Rather than try to keep the Agency Code compliant with the Political Reform Act, which is routinely updated, the Agency's revised Code simply provides reference to it. The Political Reform Act 2012 document can be found on the Fair Political Practices Commission (FPPC) website at http://www.fppc.ca.gov/Act/2012_Act_w-shading.pdf.

Directors who have specific questions regarding how the Act applies to them are encouraged to obtain opinions directly from the FPPC to be sure they are in full compliance with the Act.

Attached is the 2010 Resolution and the final draft 2012 Resolution. With Committee concurrence, the Resolution will be brought to the full Board for further consideration and possible adoption at the August 28th regular meeting.

RECOMMENDATION

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

1. Review the 2012 Final Draft Conflict of Interest Code.

BACKGOUND/ANALYSIS

No further information provided.

PRIOR RELEVANT BOARD ACTION(S)

10/25/2010 Resolution No. 10R-10 incorporating by reference the standard conflict of interest and disclosure code adopted by the Fair Political Practices Commission.

Recommended by Committee

RESOLUTION NO. 12R-XX

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT VIEW WATER AGENCY AMENDING THE AGENCY'S CONFLICT OF INTEREST CODE

WHEREAS, the Political Reform Act (Government Code, Section 81000 et seq. [the "Act"]) contains provisions relating to conflicts of interest which potentially affect all officers, employees and consultants of the Bighorn-Desert View Water Agency (the "Agency") and requires all public agencies to adopt and promulgate a Conflict of Interest Code; and

WHEREAS, the Agency's Board of Directors adopted a Conflict of Interest Code (the "Code") for the Agency which was amended on October 25, 2010, in compliance with the Act; and

WHEREAS, changed circumstances within the Agency have made it advisable and necessary, pursuant to Sections 87306 and 87307 of the Act to amend and update the Code and the Appendix thereto; and

WHEREAS, the potential penalties for violation of the provisions of the Act are substantial and may include criminal and civil liability, as well as equitable relief which could result in the Agency being restrained or prevented from acting in cases where the provisions of the Act may have been violated; and

WHEREAS, notice of the time and place of a public meeting on, and of consideration by, the Agency's Board of Directors, the proposed amended Conflict of Interest Code was provided to each affected designated employee and publicly posted for review; and

WHEREAS, a public meeting was held upon the proposed amended Code at a regular meeting of the Agency's Board of Directors on August 28, 2012, at which all present were given an opportunity to be heard on the proposed amended Code.

NOW, THEREFORE, the Board of Directors of the Bighorn-Desert View Water Agency does hereby resolve as follows:

Section 1: Adoption of Code

The Board of Directors does hereby adopt the proposed amended Conflict of Interest Code, a copy of which is attached hereto and shall be kept on file with the Agency General Manager and available to the public for inspection and copying during regular business hours.

Section 2: County Approval

The Board of Directors hereby directs the General Manager to submit the amended Conflict of Interest Code to the Board of Supervisors of the County of San Bernardino for approval.

Section 3: Effective Date

The amended Conflict of Interest Code shall become effective 30 days after its approval by the Board of Supervisors of San Bernardino County.

Section 4: Rescission

The Conflict of Interest Code adopted pursuant to Resolution No. 12R-XX is hereby rescinded.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Bighorn-Desert View Water Agency held on this 28th day of August, 2012.

BIGHORN-DESERT VIEW WATER AGENCY

BY:

_____
Michael McBride, Board President

ATTEST:

By _____
David Larson, Board Secretary

CONFLICT OF INTEREST CODE

FOR THE

BIGHORN-DESERT VIEW WATER AGENCY

The Political Reform Act (Government Code Sections 81000 et seq.) requires state and local government agencies to adopt and promulgate conflict-of-interest codes. The Fair Political Practices Commission has adopted a regulation (2 CA. Code of Regs., Section 18730), which contains the terms of a standard conflict-of-interest code, which can be incorporated by reference in an agency's code. After public notice and hearing, the regulation may be amended by the Fair Political Practices Commission to conform to amendments in the Political Reform Act. Therefore, the terms of 2 California Code of Regulations, Section 18730 and any amendments to it duly adopted by the Fair Political Practices Commission, are hereby incorporated by reference. This regulation, and the attached Appendix designating officials and employees and establishing disclosure categories, shall constitute the conflict of interest code of the Bighorn-Desert View Water Agency.

Designated employees shall file their statements of economic interests with the Bighorn-Desert View Water Agency, which will make the statements available for public inspection and reproduction. (Government Code Section 81008.) Statements for Directors of the Agency, and the General Manager shall be filed with the Agency, which shall reproduce and retain a copy for public inspection and reproduction, and forward the originals to the Board of Supervisors of the County of San Bernardino.

BIGHORN-DESERT VIEW WATER AGENCY

APPENDIX

Designated Positions

Consultant* (including but not limited to General Counsel, Chief Financial Officer, Agency Engineer)

Disclosure

Individuals holding Designated Positions must report the following:

Investments and business positions in business entities, and sources of income, including loans, gifts, and travel payments, and interests in real property.

* The General Manager may determine in writing that a particular consultant, although a "designated position," is hired to perform a range of duties that are limited in scope and thus is not required to fully comply with the disclosure requirements described in this section. Such written determination shall include a description of the consultant's duties and, based upon that description, a statement of the extent of disclosure requirements. Such determination shall be a public record and shall be retained for public inspection in the same manner and location as this conflict of interest code.

Public Officials Who Manage Public Investments

The following positions are not covered by the code because they must file under Government Code Section 87200 and, therefore, are listed for informational purposes only:

Directors
General Manager
Consultants that manage the Agency's investments

An individual holding one of the above-listed positions may contact the Fair Political Practices Commission for assistance or written advice regarding their filing obligations if they believe that their position has been categorized incorrectly. The Fair Political Practices Commission makes the final determination whether a position is covered by Section 87200.

This is the last page of the Conflict of Interest Code for the **Bighorn-Desert View Water Agency**.

CERTIFICATION OF COUNTY APPROVAL

Pursuant to Government Code Section 87303, the Conflict of Interest Code for the **Bighorn-Desert View Water Agency** was approved on _____, 2012. The Code will be effective on _____, 20___.

COUNTY OF SAN BERNARDINO

By

_____

Bighorn-Desert View Water Agency

Board of Directors
Michael McBride, President
Judy Corl-Lorono, Vice President
David Larson, Secretary
Terry Burkhart, Director
J. Dennis Staley, Director

Marina D West, P.G., General Manager

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A Public Agency

NOTICE OF INTENTION TO AMEND THE CONFLICT OF INTEREST CODE OF THE BIGHORN-DESERT VIEW WATER AGENCY

NOTICE IS HEREBY GIVEN that the Board of Directors of the BIGHORN-DESERT VIEW WATER AGENCY (the "Agency") intends to amend the Agency's Conflict of Interest Code (the "Code") pursuant to Government Code Section 87306.

The Code, and the Appendix thereto, designates those employees, officers and consultants who make or participate in the making of decisions and are subject to the disclosure requirements of the Agency's Code. The Agency's proposed Amendment includes new positions that must be designated, revises disclosure categories, revises titles of existing positions and deletes titles of positions that have been abolished.

The proposed Amended Code and Appendix will be considered by the Board of Directors on August 28, 2012, at 6:00 p.m., in the Board Hearing Room, located at 1720 N. Cherokee Trail, Landers, California.

Any interested person may be present and comment at the public meeting or may submit written comments concerning the proposed Amendment. Any comments or inquires should be directed to the attention of Marina West, General Manager of the Agency. Written comments must be submitted no later than August 28, 2012, at 6:00 p.m.

The proposed Amended Code may be reviewed at, and copies obtained from, the General Manager.

BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL

Meeting Date: August 28, 2012

To: Board of Directors

From: Marina West

Budgeted: No
Funding Source: N/A
Cost: N/A
General Counsel Approval: N/A
CEQA Compliance: N/A

Subject: Resolution No. 12R-XX Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees

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SUMMARY

The Planning/Engineering/Legislative/Grant/Security Standing Committee (PLEGS) was originally convened on the third Thursday of the even months in order to participate, via teleconference, in the Mojave Water Agency's Legal, Legislative, Public Information Committee meeting (LLPI). MWA has since moved their LLPI meeting to the first Wednesday of the month.

This scheduling conflict was reviewed by both the PLEGS Committee and the full Board and it was decided that the PLEGS meeting schedule should be changed so that participation in the LLPI by the Committee can continue. In addition, the BOD has decided to add "alternate" committee members to each Standing Committee of the BDVWA.

The attached Resolution is for the Board's further consideration and possible adoption.

RECOMMENDATION

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

1. Adopt Resolution No. 12R-XX Establishing Standing Committees and Authorizing the Creation of Ad Hoc Committees.

BACKGOUND/ANALYSIS

No further information provided.

PRIOR RELEVANT BOARD ACTION(S)

7/24/2012 BOD directs staff to modify Policy No. 08P-03 changing the regularly scheduled PLEGS meeting to coincide with the Mojave Water Agency Legal, Legislative, Public Information meetings and to add one (1) alternate member to each committee.
6/21/2012 PLEGS Committee discuss options for continuing participation in the Mojave Water Agency Legal, Legislative, Public Information meetings.

RESOLUTION NO. 12R-XX

POLICY STATEMENT OF THE BOARD OF DIRECTORS OF THE BIGHORN-DESERT VIEW WATER AGENCY ESTABLISHING STANDING COMMITTEES AND AUTHORIZING THE CREATION OF AD HOC COMMITTEES

WHEREAS, The Board of Directors of the Bighorn-Desert View Water Agency desires to ensure efficient administration of the Bighorn-Desert View Water Agency ("Agency") by the establishment of standing committees of the Board of Directors ("Board") and the authorization for the creation of ad hoc committees of the Board. Standing committees allow for the productive use of Directors' individual expertise on matters and to work with staff in developing better background information for the full Board's consideration.

WHEREAS, All standing committees shall be subject to meeting requirements specified under the Ralph M. Brown Act, California Government code sections 54950 through 54963.

WHEREAS, this Resolution rescinds and repeals Policy No. 08P-03.

NOW, THEREFORE, THE BOARD OF DIRECTORS HEREBY RESOLVES:

The Board President shall, with board consensus, appoint and publicly announce the members of the standing committees at the first regularly-scheduled meeting of the Board in February of each year and at other meetings of the Board as circumstances may require.

Each committee shall have a maximum of two (2) members and one (1) alternate. The alternate may only participate in the absence of the regularly assigned member. Each standing committee may hold a regularly scheduled meeting six (6) times per year. Special meetings may be called as deemed necessary by either the General Manager or the Committee Chairperson.

All standing committee meetings of the Bighorn-Desert View Water Agency shall hereafter be held at the Bighorn Office located at 1720 N. Cherokee Tr., Landers, CA 92285. All Standing Committee meetings, Adjourned Standing Committee meetings and Special Standing Committee meetings may be fixed from time to time and by legal public notice, to other locations within and without the agency, at times as determined by the standing committee or Board of Directors.

The Board's standing committees shall be assigned to review Agency functions, activities, and/or operations pertaining to their designated concerns as specified. Any recommendations resulting from said review shall be submitted to the Board via a written or oral report.

The following shall be the Board's standing committees, duties, and meeting schedule:

Planning & Engineering/Legislative/Grant Committee-Meetings of the Bighorn-Desert View Water Agency Planning & Engineering/Legislative/Grant Committee shall hereafter be held on the 1st Wednesday of every other (even) month, beginning October 2012, at the hour of 09:15 a.m.

Planning & Engineering-shall be concerned with, but not limited to, the study and development of Agency operational goals, including planning /engineering reviews and proposals of capital improvement projects as well as the development and periodic review of an Agency general plan, safety and security issues (i.e. Homeland Security, Vulnerability Assessment and facilities general security).

Legislative-shall be concerned with matters related to, or involving other governmental and/or regulatory agencies which may have an effect on the Agency. It shall monitor and review legislation or potential legislation which may affect the Agency. The committee shall also annually review existing ordinances, resolution and/or Agency policies, except those pertaining specifically to personnel matters.

Grant-shall be concerned with matters related to, or involving other governmental and/or regulatory agencies which may have an effect on the Agency's grants or grant policies. It shall monitor and review grant legislation or potential grant legislation which may affect the Agency and monitor and review progress of grant funded projects. This committee shall work directly with the General Manager and Grant Consultant(s) in an effort to obtain/secure grants.

Finance/Personnel/Pubic Relations & Education Committee-Meetings of the Bighorn-Desert View Water Agency Finance/Personnel/Public Relations & Education Committee shall hereafter be held on the 2nd Wednesday of every other month, beginning September 2012, at the hour of 4:00 p.m.

Finance-shall be concerned about, but not limited to the financial management of the Agency, including the preparation of an annual budget, periodic reviews of Agency revenues, Agency investments, expenditures, and audit.

Personnel-shall be concerned with the functions, activities, compensation, and welfare of agency staff. This committee shall work directly with the General Manager on personnel related matters.

Public Relations & Education-shall be concerned with assuring that information relative to the affairs of the Agency is accurately and appropriately communicated to the public. This committee shall work with staff on the Agency Newsletter and website; developing and communicating water education programs for the public; the development of community, customer, and employee relations programs to enhance Agency/Customer relationships and understanding.

Morongo Basin Pipeline Commission/Mojave Water Agency Technical Advisory Committee Representative(s)- A member of the Planning & Engineering subcommittee shall be appointed as the representative (the "Representative") of the Agency to the Mojave Water Agency TAC meetings and shall be concerned with assuring the costs of the Morongo pipeline are proportionately charged to the benefiting districts/agencies, and that the Agency has representation on the Mojave Water Agency TAC on matters affecting the Agency. The Representative shall attend all Morongo Basin Pipeline Commission and Mojave Water Agency TAC meetings. An alternate Representative may also be appointed if the primary Representative is unable to attend any Commission or TAC meetings.

Ad Hoc Committee Appointments-The Board President shall, with board consensus, appoint such ad hoc committees as may be deemed necessary by the President or the Board of Directors. The duties of the ad hoc committees shall be outlined at the time of appointment, and the committee shall be considered dissolved when its final report has been made.

PASSED, APPROVED AND ADOPTED by the Board of Directors of Bighorn-Desert View Water Agency this 28th day of August 2012.

BY:

_____
Michael McBride, Board President

ATTEST:

By _____
David Larson, Board Secretary

JOINT POWERS
INSURANCE AUTHORITY

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President
E.G. "Jerry" Gladbach

Vice President
Tom Cuquet

Chief Executive Officer
Walter "Andy" Sells

Executive Committee
John A. Coleman
Tom Cuquet
Joseph Dion
E.G. "Jerry" Gladbach
David T. Hodgin
W.D. "Bill" Knutson
Melody A. McDonald
Charles W. Muse
Lou Reinkens

RECEIVED
JUL 16 2012
By

To: General Managers

From: Walter "Andy: Sells, Chief Executive Officer

Date: July 13, 2012

Subject: Welcome to the JPIA

On July 1, 2012, the ACWA Health Benefits Authority transitioned its Employee Benefits programs to the JPIA. The programs and coverages you enjoyed though the HBA are still the same now that they are part of the JPIA. You are also now members of the JPIA. The JPIA was formed in 1979 as a means to consistently and cost effectively providing the broadest possible insurance coverages to its member agencies.

While Members of the JPIA may participate in one, two, three, or all four of its Programs, they all have the same thing in common. They all have a representative (JPIA Director) on the JPIA's Board of Directors.

Article 7 of the JPIA's Agreement addresses the JPIA's Board of Directors. In part, it states that the Authority (ACWA/JPIA) shall be governed by the Board of Directors which is composed of one representative from each Member, who shall be a **member director selected by the governing board of that Member**. Each Member, in addition to appointing its member of the Board, shall appoint at least one Alternate who shall be an officer, member of the governing board, or employee of that Member. The Directors and Alternates serve until a successor is appointed and at the pleasure of the Member by which he or she has been appointed. Each Director representing a Member, or his or her Alternate, shall have one vote.

The JPIA Board of Directors' meetings are held twice a year, during the spring and fall ACWA Conferences. While the Directors and/or their Alternates are encouraged to attend these Board meetings, the JPIA understands that it is not always possible. Expenses, per diem, and fees incurred by the Directors and Alternates to attend the Board meetings and the ACWA conferences are the responsibility of their respective districts.

At your earliest convenience, please complete and return the attached form with the Director's and Alternate's names, titles, mailing addresses, and email addresses so that we may update our data base.

The JPIA's Bylaws, Agreement, and Directors' Manual can be found on our website (an updated version of the manual will be available within the next few weeks). On the "Committees" tab, select "Board of Directors"

from the drop down menu. On that page, you will find resource information for the Board of Directors (www.acwajpia.com/CmBOD.aspx).

Within 30 days of being appointed, the JPIA Directors must file the Fair Political Practices Commission (FPPC) Statement of Economic Interest Assuming Office Statement and send the original signed form to the JPIA. The Alternates are not required to complete the form. The form and other Statement of Economic Interest resources can also be found on the Board of Directors web page. For questions about filing this form, contact Michelle Stites at the JPIA at (800) 535-7899, ext. 3153.

If you have any questions, please feel free to send an email to Michelle Stites at mstites@acwajpia.com or give her a call at the number listed above.

JPIA Board of Directors - Member/Alternate

An excerpt from the JPIA Agreement:

"Article 7 - Board of Directors"

(a) The Authority shall be governed by the Board of Directors which is hereby established and which shall be composed of one representative from each Member, who shall be a Member director selected by the governing board of that Member. Each Member, in addition to appointing its member of the Board, shall appoint at least one alternate who shall be an officer, member of the governing board, or employee of that Member. The alternate appointed by a Member shall have the authority to attend and participate in any meeting of the Board when the regular member for whom he or she is an alternate is absent from said meeting.

(b) Each Director or alternate of the Board shall serve until a successor is appointed. Each Director or alternate shall serve at the pleasure of the Member by which he or she has been appointed.

(c) Each Director representing a Member, or his or her alternate, shall have one vote.

Please have you agency's Board of Directors designate a JPIA Director Representative and Alternate Representative.

Member Agency: _____

JPIA Director Representative: _____

Must be a member of the agency's board of directors.

Preferred mailing address: _____

_____

E-mail address: _____

Phone number: _____

JPIA Alternate Representative: _____

Preferred mailing address: _____

_____

E-mail address: _____

Phone number: _____

Please mail form to: Attn: Michelle Stites, ACWA/JPIA, PO Box 619082, Roseville, CA 95661-9082

or FAX to: (916) 774-7040

BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL

Meeting Date: August 28, 2012

To: Board of Directors

From: Marina West

Budgeted: No
Funding Source: LAIF unrestricted reserves
Cost: $13,035
General Counsel Approval: Obtained
CEQA Compliance: N/A

Subject: Disposal of Obsolete Asbestos Cement Pipe to a Federally Regulated Landfill at an Estimated Cost of $13,025 (estimate based on actual disposed weight)

SUMMARY

The Agency possesses an estimated 75 tons of obsolete asbestos cement pipe acquired after the 1992 Landers earthquake from the Federal Emergency Management Agency (FEMA) during its disaster response.

This material is not used by the Agency in daily operations due safety concerns regarding handling and transport. The material is classified as hazardous waste. Staff believes the material should be disposed of properly rather than continuing to maintain the existing stock-piles.

RECOMMENDATION

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

1. Authorize General Manager to enter into a contract with HCI Environmental and Engineering Service to dispose of surplus asbestos cement pipe at a federally regulated landfill at an estimated cost of $13,035 (estimate based on actual disposed weight); and
2. Authorize transfer of funds from the "unencumbered cash" fund to the "Replacement and Refurbishment" fund.

BACKGOUND/ANALYSIS

The Agency possesses an estimated 75 tons of obsolete asbestos cement pipe acquired after the 1992 Landers earthquake from the Federal Emergency Management Agency (FEMA) during its disaster response.

This material is not used by the Agency in daily operations due safety concerns regarding handling and transport. The material is classified as hazardous waste. Staff believes the material should be disposed of properly rather than continuing to maintain the existing stock-piles.

Two bids were solicited for disposal of the materials and are summarized below:

Company	Project Base Bid
HCI Environmental & Engineering Service	$13,035 (based on est. of 75 tons, $138/ton)
HTS Environmental Services	$36,145 (lump sum, no other breakdown provided)

This item is not included in the Fiscal Year 2012/13 Budget and therefore will require a transfer of unrestricted funds from LAIF. The current "unrestricted cash" balance in LAIF is $610,838.

Staff recommends disposal of the waste at this time in accordance with applicable laws and regulations.

PRIOR RELEVANT BOARD ACTION(S)
None

BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL

Meeting Date: August 28, 2012

To: Board of Directors

From: Marina West

Budgeted: N/A
Funding Source: N/A
Cost: N/A
General Counsel Approval: N/A
CEQA Compliance: N/A (will be evaluated for each project)

Subject: Recommendation from Planning/Engineering/Legislative/Grant/Security Standing Committee Regarding Capital, Replacement and Refurbishment Projects for Fiscal Year 2012/13

SUMMARY

On July 24th the Board of Directors approved a Task Order with Krieger & Stewart to prepare plans and specifications as well as project management and field inspection services for up to two (2) reservoirs. At the same time the Board inquired about increasing the number of reservoirs to four (4).

The Planning/Engineering/Legislative/Grant/Security Standing Committee (PLEGS) met on August 16th to review the cost impacts of the Board's request.

The Committee advises the Board to continue with the objective of refurbishing up to two (2) reservoirs to preserve financial resources for other projects as outlined herein.

RECOMMENDATION

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

1. Confirm intention to refurbish up to two (2) reservoirs in fiscal year 2012/13.

BACKGOUND/ANALYSIS

On July 24th the Board of Directors approved a Task Order with Krieger & Stewart to prepare plans and specifications as well as project management and field inspection services for up to two (2) reservoirs. At the same time the Board inquired about increasing the number of reservoirs to four (4).

The Planning/Engineering/Legislative/Grant/Security Standing Committee (PLEGS) met on August 16th to review the cost impacts of the Board's request. A majority of the cost is related to the project management and inspection services as well as the contractors cost to remove and replace the coatings. It was estimated that increasing the number of reservoirs would effectively reduce the unrestricted reserve balance to $260,000. Since there are other projects of equivalent priority the Committee felt a multi-year approach to reservoir recoating was the most fiscally prudent action even though some cost savings could be realized.

In summary, the Committee advises the Board to continue with the objective of refurbishing up to two (2) reservoirs to preserve financial resources for other improvement projects as outlined below:

- Engineers Report on options for and costs to mitigate elevated Uranium in the Flamingo Heights well field (Well Nos. 2, 3 and 4) as recommended by the Department of Public Health.
- Installation of transfer switches and connectors at various wellheads and pump stations to allow for use of a portable generator during extended power outages.
- Reservoir "wash outs" – drain and clean out five (5) reservoirs.
- Security upgrades at business office and refurbishment of parking lot.
- Disposal of surplus asbestos cement pipe to a federally regulated landfill.
- Well site improvements to enclose well pumps and chlorination equipment.

Staff is seeking final direction from the full board on how to proceed with the reservoir recoating project.

PRIOR RELEVANT BOARD ACTION(S)

8/16/2012 PLEGS Committee: Review cost estimate to refurbish up to four (4) reservoirs. Report to full Board a recommendation against increasing the number of reservoirs in FY2012/13.

7/24/2012 Motion 12-057 Authorize General Manager to execute Work Order No 4A with Krieger and Stewart, inc for project management/construction inspection services for recoating and repainting of (up to) four reservoirs in conjunction with scope of services dated June 15, 2012 at a cost estimate of $85,900; and authorize filing of categorical exemption for the proposed project in accordance with CEQA; and authorize publication of notice inviting bids for recoating and repainting of (up to) four reservoirs; and authorize transfer of funds from the "unencumbered cash" fund to the "replacement and refurbishment" fund.

2/10/2012 Board Workshop: Discuss priorities for capital, replacement and refurbishment projects.

12/15/2011 Planning/Legislative/Engineering/Grant/Security Committee: Review proposed refurbishment project cost estimates with Krieger & Stewart.

BIGHORN-DESERT VIEW WTR AGENCY
CHECK REGISTER
JULY 31, 2012

CHECK#	DATE	PAYEE & DESCRIPTION	AMOUNT
11527	07/03/12	MIKE WILLIAMS	
		VOID	-18.28
12350	07/12/12	ACE ALTERNATORS-GENERATORS-	
		"10" RANGER 9091 BATTERY	116.58
12351	07/12/12	ACWA/JPIA	
		ACWA HEALTH BENEFITS AUG 2012	
		ACWA HEALTH BENEFITS JULY 2012	1,384.36
12352	07/12/12	AT&T MOBILITY	
		COMMUNICATIONS EXP	103.54
12353	07/12/12	BDVWA	
		POST TO CUSTOMER ACCT	18.28
12354	07/12/12	BURRTEC WASTE & RECYLING SVCS	
		TRASH FEE JULY 2012	79.92
12355	07/12/12	CLINICAL LABORATORY OF	
		BACT TEST, PLATE CT, GEN PHY	123.00
12356	07/12/12	COUNTY TREASURER OF S.B.	
		12-13 LAFCO BUDGET ALLOCATION	589.52
12357	07/12/12	DATASTREAM BUSINESS SOLUTIONS	
		SOFTWARE MAINT 070112-093012	645.00
12358	07/12/12	MOJAVEWIFI.COM LLC	
		INTERNET JULY 2012	95.00
12359	07/12/12	SDRMA	
		PROP LIABILIY INS	
		SDRMA JULY-SEP 2012 W/C	29,119.97
12360	07/19/12	* VOID *	
12361	07/19/12	* VOID *	
12362	07/19/12	* VOID *	
12363	07/19/12	* VOID *	
12364	07/19/12	* VOID *	
12365	07/19/12	* VOID *	
12366	07/19/12	* VOID *	
12367	07/19/12	* VOID *	
12376	07/25/12	BAKERSFIELD WELL & PUMP CO	
		"C" BOOSTER PUMP INSTALL	950.00
12377	07/25/12	BDVWA	
		BALANCE REFUND	
		POST TO NEW ACCT	0.83
12378	07/25/12	CANDIDA NEAL	
		ENVIRO STUDY JUNE 2012 NON EPA	1,875.00
12379	07/25/12	CLINICAL LABORATORY OF	
		PLATE CT, BACT TEST	
		BACT TEST	96.00
12380	07/25/12	DAVID FRANK GRIMMETT	
		BALANCE RFND ACCT# 1107657	99.98
12381	07/25/12	DISCOUNT TIRE CENTERS	
		2010 RANGER 9090, WIPER BLADES	
		OIL CHG, TRANS FLUID, COOLANT	295.46
12382	07/25/12	ERIK HARRELL	
		BALANCE RFND ACCT# 1006813	2.24
12383	07/25/12	GOODSPEED DISTRIBUTING INC	

BIGHORN-DESERT VIEW WTR AGENCY
CHECK REGISTER
JULY 31, 2012

CHECK#	DATE	PAYEE & DESCRIPTION	AMOUNT
		UNLEADED FUEL	1,677.84
12384	07/25/12	GRAINGER	
		HOUR METER	
		HOUR METER CREDIT	
		TIMER, HR METER, WELL CONTROLS	249.05
12385	07/25/12	THE HOME DEPOT #6971	
		OFFICE MAINT, FIELD SUPPLIES	103.87
12386	07/25/12	INLAND WATER WORKS	
		PRV #13, FIELD MATERIALS	
		INVENTORY	
		FIELD MATERIALS	1,113.25
12387	07/25/12	JESSICA DROWE	
		BALANCE RFND ACCT# 1001009	64.95
12388	07/25/12	MAID TO ORDER	
		SVC JEMEZ & MTG ROOM JUN 2012	
		SVC JEMEZ & MTG ROOM JUL 2012	
		SVC JEMEZ & MTG ROOM MAY 2012	663.00
12389	07/25/12	NIKOLE J BROWN	
		BALANCE RFND ACCT# 0210503	10.03
12390	07/25/12	OFFICE DEPOT	
		OFFICE SUPPLIES	
		OFFICE SUPPLIES	159.24
12391	07/25/12	PITNEY BOWES PURCHASE POWER	
		POSTAGE FOR JULY 2012	524.26
12392	07/25/12	PROTECTION ONE ALARM MONITORNG	
		SHOP 07/26/12-08/25/12	41.58
12393	07/25/12	SDRMA	
		SDRMA MED BENEFITS AUG 2012	6,274.10
12394	07/25/12	SHELLEY O'MALLEY	
		BALANCE RFND ACCT# 1103486	83.26
12395	07/25/12	SOUTHERN CALIFORNIA EDISON	
		POWER EXP JUNE 2012	6,100.78
12396	07/25/12	USA BLUEBOOK	
		TESTING STRIPS, DISPENSERS	
		FIELD SUPPLIES	1,575.18
12397	07/30/12	CA-NV SECTION, AWWA	
		WORKSHOP CARUSO	
		WORKSHOP CARUSO	265.00
12398	07/30/12	CLINICAL LABORATORY OF	
		PLATE CT, BACT TEST	
		GENERAL PHYSICAL	73.00
12399	07/30/12	ELLESS ELECTRIC	
		LIGHT ADDED, FRONT OFFICE	180.00
12400	07/30/12	HI-DESERT STAR	
		CSR/ACCT TECH JOB AD CREDIT	
		PUBLIC NOTICE DQ WATER BILLS	
		JULY 24, 2012 PUBLIC HEARING	
		LIENS	449.46
12401	07/30/12	INLAND WATER WORKS	
		INVENTORY, FIELD MATERIALS	
		INVENTORY & FIELD MATERIALS	579.37
12402	07/30/12	PITNEY BOWES GLOBAL FINANCIAL	
		QTRLY LEASE MAY 10-AUG 10,2012	174.59
12403	07/30/12	VERIZON CALIFORNIA	

BIGHORN-DESERT VIEW WTR AGENCY
CHECK REGISTER
JULY 31, 2012

CHECK#	DATE	PAYEE & DESCRIPTION	AMOUNT
		AUTO CONTROL & PHONES	
		AUTO CONTROLS & PHONES	603.37
		TOTAL	56,541.58

Prepared By DB
Date 8/17/12
Reviewed By

GENERAL FUND

ASSETS		
CASH & CASH EQUIVALENTS		
01 13120	CASH UNION BANK OF CA	68,913.56
01 13130	CASH CASH DRAWERS BASE FUND	750.00
01 13400	CASH PETTY CASH FUND	800.00
	TOTAL CASH & CASH EQUIVALENTS	70,463.56
INVESTMENTS		
01 13303	LAIF UNENCUMBERED CASH FUND	610,837.62
01 13306	LAIF-BASIC FACILITIES CHGS	27,196.00
01 13307	LAIF-CUSTOMER DEPOSITS	50,000.00
01 13309	LAIF EMERGENCY CONTINGENCIES	50,000.00
01 13310	LAIF REPLACE & REFURBISH FUND	50,000.00
01 13311	LAIF ENCUMBERED FOR PROJECTS	85,900.00
	TOTAL INVESTMENTS	873,933.62
ACCOUNTS RECEIVABLE, WATER		
01 13710	A/R WATER	160,101.88
01 13950	2009-2010 LIEN RECEIVABLE	23,798.91
01 13951	2010-2011 LIEN RECEIVABLE	20,316.97
	TOTAL ACCTS RECEIVABLE, WATER	204,217.76
ACCOUNTS RECEIVABLE, OTHER		
	TOTAL ACCTS RECEIVABLE, OTHER	0.00
INVENTORIES		
01 14301	INVENTORY-WATER SYSTEM PARTS	62,291.10
	TOTAL INVENTORY	62,291.10
PREPAID EXPENSES		
01 14401	PREPAYMENTS WORKERS COMP INSUR	1,064.00
01 14402	PREPAYMENTS PL & PD LIAB INS	25,280.31
	TOTAL PREPAID EXPENSES	26,344.31
FIXED ASSETS		
01 11130	FA ORGANIZATION	336,271.36
01 11130 01	ACCUMMULATED DEP ORGANIZATION (	86,653.33)
01 11135	FA LAND	12,507.94
01 11140	FA LAND & BUILDINGS	294,654.63
01 11150	FA YARDS	52,957.71
01 11160	FA FUELS TANKS	16,604.30
01 11170	FA WATER SYSTEM	7,710,968.71
01 11180	FA SHOP EQUIPMENT	43,075.46
01 11181	FA MOBILE EQUIPMENT	469,521.19
01 11190	FA OFFICE EQUIPMENT	129,713.10

GENERAL FUND

01 11400	ACCUMULATED DEPRECIATION	(5,419,590.70)	
	TOTAL FIXED ASSETS	3,560,030.37	
WORK IN PROGRESS (FOR OTHERS)			
	TOTAL WORK IN PROGRESS(OTHERS)	0.00	
WORK IN PROGRESS (AGENCY)			
01 12005	WIP EPA GRANT	809,180.43	
01 12044	PRV 13 REFURBISH	3,374.84	
01 12045	PRV 14 REFURBISH	3,327.64	
01 12047	C-BOOSTER STATION PUMP REPLACE	6,184.35	
01 12048	FRONT ENCLOSURE	180.00	
	TOTAL WORK IN PROGRESS(AGENCY)	822,247.26	
DEBT ISSUANCE COST			
	TOTAL DEBT ISSUANCE COST	0.00	
	TOTAL ASSETS		5,619,527.98
LIABILITIES			
ACCOUNTS PAYABLE			
	TOTAL ACCOUNTS PAYABLE	0.00	
ACCRUED PAYROLL			
01 22900	ACCRUED PAYROLL LIABILITIES	15,046.11	
	TOTAL ACCRUED PAYROLL	15,046.11	
CUSTOMER DEPOSITS			
01 22550	CUSTOMER DEPOSITS PENDING	300.00	
01 22600	CUSTOMER DEPOSITS	53,841.39	
	TOTAL CUSTOMER DEPOSITS	54,141.39	
WORK IN PROGRESS DEPOSIT			
	TOTAL WORK IN PROGRESS DEPOSIT	0.00	
LIAB PYBL FRM RESTRICTD ASSETS			
	TOTAL LIAB PYBL FRM REST ASSET	0.00	
LONG TERM DEBT			
01 21101	REVENUE BONDS PAYABLE - DV	260,977.05	
01 22300	REVENUE BONDS PAYABLE - BH	628,000.00	

GENERAL FUND

	TOTAL LONG TERM DEBT		888,977.05	
	TOTAL LIABILITIES			958,164.55
EQUITY				
01 30109		CONTRIBUTED CAPITAL/HUD	291,035.88	
01 30111		FMHA GRANTS	758,297.76	
01 31000		FUND BALANCE	3,129,297.85	
01 31001		FUND BALANCE FEMA & OES	427,895.00	
01 31111		CURR YEAR NET REVENUE/EXPENSE	54,836.94	
	TOTAL EQUITY			4,661,363.43
	TOTAL LIABILITIES & EQUITY			5,619,527.98

Prepared By GB
Date 8/16/12
Reviewed By MWest

GENERAL FUND

		BUDGET	REV OR EXP THIS MONTH	REV OR EXP YEAR TO DATE	AVAILABLE	YTD % OF BUDGET
REVENUE						
OPERATING REVENUE						
01 41000	SERVICE LINE INSTALLATION FEES	1,255.00	0.00	0.00	1,255.00	0.00%
01 41001	BASIC FACILITIES CHARGE	4,098.00	0.00	0.00	4,098.00	0.00%
01 41100	INCOME METERED WATER	372,808.00	41,124.72	41,124.72	331,683.28	11.03%
01 41200	INCOME AVAILABILITY/STANDBY	0.00	0.00	0.00	0.00	0.00%
01 41300	BASIC SERVICE CHARGE	578,325.00	50,014.25	50,014.25	528,310.75	8.65%
01 41400	INCOME METERED BULK WATER	46,318.00	5,995.49	5,995.49	40,322.51	12.94%
01 41500	INCOME CONNECT/FACILITY CHARGE	0.00	0.00	0.00	0.00	0.00%
01 41700	INCOME OTHER (OPERATING)	37,200.00	3,552.82	3,552.82	33,647.18	9.55%
01 41800	WATER SYSTEM IMPROVEMENT JOBS	0.00	0.00	0.00	0.00	0.00%
01 41900	INTERBASIN WATER TRANSFER	0.00	0.00	0.00	0.00	0.00%
TOTAL OPERATING REVENUE		1,040,004.00	100,687.28	100,687.28	939,316.72	9.68%
NON-OPERATING REVENUE						
01 49100	GA02 GEN LEVY IMP DIST A BH	52,100.00	1,542.08	1,542.08	50,557.92	2.96%
01 49101	DA01 DEBT SRVC IMP 1 (BH BOND)	175,900.00	28,949.39	28,949.39	146,950.61	16.46%
01 49102	GA01 GENERAL TAX LEVY (BDV)	52,100.00	1,532.16	1,532.16	50,567.84	2.94%
01 49103	INCOME REVENUE BONDS DV FMHA	48,825.00	21.10	21.10	48,803.90	0.04%
01 49200	INTEREST INCOME	2,800.00	0.00	0.00	2,800.00	0.00%
01 49400	MWA PIPELINE SURCHARGE	0.00	0.00	0.00	0.00	0.00%
01 49401	MWA PIPELINE OMP&R	0.00	0.00	0.00	0.00	0.00%
01 49500	ID B DEBT SERVICE	0.00	0.00	0.00	0.00	0.00%
01 49600	INCOME OTHER (NON OPERATING)	0.00	0.00	0.00	0.00	0.00%
01 49601	INCOME-CONT CAPTL WIP(NONOPER)	0.00	0.00	0.00	0.00	0.00%
01 49999	FEDERAL/STATE GRANTS FEMA/OES	0.00	0.00	0.00	0.00	0.00%
TOTAL NON-OPERATING REVENUE		331,725.00	32,044.73	32,044.73	299,680.27	9.66%
TOTAL REVENUE		1,371,729.00	132,732.01	132,732.01	1,238,996.99	9.68%
EXPENSE						
OPERATIONS EXPENSE						
01 54102	OPERATIONS COMPENSATION	151,538.00	12,991.94	12,991.94	138,546.06	8.57%
01 54103	UNIFORMS	2,150.00	0.00	0.00	2,150.00	0.00%
01 54105	AUTO CONTROLS	2,640.00	212.29	212.29	2,427.71	8.04%
01 54106	VEHICLE/TRACTOR/EQUIP EXPENSE	5,000.00	412.04	412.04	4,587.96	8.24%
01 54107	VEHICLE EXPENSE - FUEL	18,000.00	1,677.84	1,677.84	16,322.16	9.32%
01 54109	FIELD MATERIALS & SUPPLIES	20,000.00	3,145.20	3,145.20	16,854.80	15.73%
01 54111	WATER TESTING	6,850.00	210.00	210.00	6,640.00	3.07%
01 54112	CONTRACTUAL SERV- ENGINEERING	65,000.00	0.00	0.00	65,000.00	0.00%
01 54114	WATER SYSTEM REPAIRS	25,000.00	0.00	0.00	25,000.00	0.00%
01 54115	BUILDING MAINTENANCE/REPAIR	7,500.00	859.70	859.70	6,640.30	11.46%

GENERAL FUND

		BUDGET	REV OR EXP THIS MONTH	REV OR EXP YEAR TO DATE	AVAILABLE	YTD % OF BUDGET
01 54117	AMES BASIN MONITORING	0.00	0.00	0.00	0.00	0.00%
01 54119	COMMUNICATIONS EXPENSE	1,500.00	-.80	-.80	1,500.80	-.05%
01 54121	DISINFECTION EXPENSE	4,500.00	381.98	381.98	4,118.02	8.49%
01 54125	POWER WELLS & PUMPS	63,000.00	-356.47	-356.47	63,356.47	-.57%
01 54130	OTHER OPERATIONS EXPENSES	16,500.00	0.00	0.00	16,500.00	0.00%
01 54150	PAYROLL LABOR TO PROJECTS	0.00	0.00	0.00	0.00	0.00%
01 54160	VEH & EQUIP EXPENSE TO PROJECT	0.00	0.00	0.00	0.00	0.00%
01 54170	INVENTORY EXP TO WIP PROJECTS	0.00	0.00	0.00	0.00	0.00%
TOTAL OPERATIONS EXPENSE		389,178.00	19,533.72	19,533.72	369,644.28	5.02%
BULK SYSTEM EXPENSE						
01 55001	PUMPING PLANT EXPENSE	6,500.00	-133.89	-133.89	6,633.89	-2.06%
01 55002	BULK OPERATIONS & MAINTENANCE	5,000.00	0.00	0.00	5,000.00	0.00%
TOTAL BULK SYSTEM EXPENSE		11,500.00	-133.89	-133.89	11,633.89	-1.16%
ADMINISTRATIVE EXPENSE						
01 56001	DIRECTOR FEES	16,000.00	600.00	600.00	15,400.00	3.75%
01 56002	DIRECTOR MEETING EXPENSES	0.00	0.00	0.00	0.00	0.00%
01 56002 01	DIRECTOR MCBRIDE	4,200.00	0.00	0.00	4,200.00	0.00%
01 56002 02	DIRECTOR CORL-LORONO	4,200.00	0.00	0.00	4,200.00	0.00%
01 56002 03	DIRECTOR LARSON	4,200.00	0.00	0.00	4,200.00	0.00%
01 56002 04	DIRECTOR BURKHART	4,200.00	0.00	0.00	4,200.00	0.00%
01 56002 05	DIRECTOR STALEY	4,200.00	0.00	0.00	4,200.00	0.00%
01 56003	ADMINISTRATIVE COMPENSATION	245,494.00	15,409.22	15,409.22	230,084.78	6.28%
01 56005	ADMINISTRATIVE MEETING EXPENSE	1,000.00	0.00	0.00	1,000.00	0.00%
01 56006	CONTRACTUAL SERV-AUDITOR	30,000.00	0.00	0.00	30,000.00	0.00%
01 56007	CONTRACTUAL SERV-LEGAL	30,000.00	0.00	0.00	30,000.00	0.00%
01 56008	PERS CONTRIBUTION	41,000.00	2,683.09	2,683.09	38,316.91	6.54%
01 56009	PAYROLL TAXES	12,400.00	448.90	448.90	11,951.10	3.62%
01 56011	TELEPHONE/FAX/INTERNET/WEB	7,500.00	479.52	479.52	7,020.48	6.39%
01 56012	MAILING EXPENSES	11,500.00	674.59	674.59	10,825.41	5.87%
01 56014	CONTRACTUAL SERV-OTHER	19,100.00	829.40	829.40	18,270.60	4.34%
01 56016	PROPERTY/LIABILITY EXPENSE	27,000.00	2,293.66	2,293.66	24,706.34	8.50%
01 56017	WORKERS COMP INSURANCE	6,500.00	532.00	532.00	5,968.00	8.18%
01 56018	DUES & SUBSCRIPTIONS	9,630.00	589.52	589.52	9,040.48	6.12%
01 56020	POWER OFFICES & YARDS	5,600.00	93.17	93.17	5,506.83	1.66%
01 56022	BAD DEBT EXPENSE	2,000.00	0.00	0.00	2,000.00	0.00%
01 56023	LEAK RELIEF	0.00	0.00	0.00	0.00	0.00%
01 56025	PROPANE	1,800.00	0.00	0.00	1,800.00	0.00%
01 56026	ASSESSMENT EXPENSE	0.00	0.00	0.00	0.00	0.00%
01 56030	OFFICE SUPPLIES	4,500.00	159.24	159.24	4,340.76	3.54%
01 56030 01	PAPER & INK	4,000.00	0.00	0.00	4,000.00	0.00%
01 56100	EMPLOYEE BENEFITS INSURANCE	94,090.00	13,196.54	13,196.54	80,893.46	14.03%
01 56101	FLEXIBLE SPENDING ACCOUNT	0.00	22.43	22.43	0.00	0.00%
01 56102	CHILD DEPENDENT CARE	0.00	0.00	0.00	0.00	0.00%
01 56103	PLAN PARTICIPATION FEE	0.00	1.56	1.56	0.00	0.00%
01 56104	SUPPLEMENTAL LIFE	0.00	7.99	7.99	0.00	0.00%

GENERAL FUND

		BUDGET	REV OR EXP THIS MONTH	REV OR EXP YEAR TO DATE	AVAILABLE	YTD % OF BUDGET
01 56105	DISABILITY INS	0.00	11.28	11.28	0.00	0.00%
01 56106	CANCER INS	0.00	0.00	0.00	0.00	0.00%
01 56107	HOSPITAL INS	0.00	0.00	0.00	0.00	0.00%
01 56110	EMPLOYEE EDUCATION	3,500.00	265.00	265.00	3,235.00	7.57%
01 56150	PAYROLL FRINGE EXP TO PROJECTS	0.00	0.00	0.00	0.00	0.00%
01 56160	OVERHEAD TO PROJECTS	0.00	0.00	0.00	0.00	0.00%
TOTAL ADMINISTRATIVE EXPENSE		593,614.00	38,297.11	38,297.11	555,316.89	6.45%
TOTAL OPERATING EXPENSE		994,292.00	57,696.94	57,696.94	936,595.06	5.80%
NON-OPERATING EXPENSE						
01 56200	OFFICE EQUIPMENT EXPENSE	3,500.00	0.00	0.00	3,500.00	0.00%
01 56300	CUSTOMER RELATIONS	6,000.00	0.00	0.00	6,000.00	0.00%
01 56400	OTHER ADMINISTRATIVE EXPENSES	3,500.00	461.62	461.62	3,038.38	13.19%
01 57000	INTEREST EXPENSE - BH BONDS	0.00	0.00	0.00	0.00	0.00%
01 57100	DEPRECIATION EXPENSE	0.00	19,736.51	19,736.51	0.00	0.00%
01 57110	AMORTIZATION	0.00	0.00	0.00	0.00	0.00%
01 57350	MWA PIPELINE DEBT	0.00	0.00	0.00	0.00	0.00%
01 57360	MWA PIPELINE FIXED OMP & R	0.00	0.00	0.00	0.00	0.00%
01 58100	ELECTION COSTS	0.00	0.00	0.00	0.00	0.00%
01 58200	EMPLOYEE SOC SEC REFUND	0.00	0.00	0.00	0.00	0.00%
01 59100	INTEREST EXPENSE - DV BONDS	0.00	0.00	0.00	0.00	0.00%
01 59400	GAIN (LOSS) ASSET DISPOSAL	0.00	0.00	0.00	0.00	0.00%
TOTAL NON-OPERATING EXPENSE		13,000.00	20,198.13	20,198.13	-7,198.13	155.37%
TOTAL EXPENSE		1,007,292.00	77,895.07	77,895.07	929,396.93	7.73%
NET REV/EXP GENERAL FUND		364,437.00	54,836.94	54,836.94	309,600.06	15.05%

Prepared By GB
Date 8/16/12
Reviewed By [illegible]

UNION BANK OF CALIFORNIA
DISBURSEMENTS JULY 2012

Datastream Check Register	56,541.58		
		56,541.58	
EFT for Vendor Services			
Bank Fees	184.40		
Total EFT for Vendor Services		184.40	
Wages for Paydate 08/12/12			
State & Fed Taxes plus PERS Paid	5,161.99		
Payroll checks 12368-112375	9,999.95		
Director Per Diem N/A			
		15,161.94	
Wages for Paydate 08/26/12			
State & Fed Taxes plus PERS Paid	5,452.06		
Payroll checks 12404-12409 & 12415-12416	10,056.89		
Director Per Diem ck 12410-12414	566.10		
		16,075.05	
Transfers to LAIF		-	
Total Disbursements			87,962.97

Prepared By JB
Date 8/17/12
Reviewed By

SOURCES & USES OF FUNDS STATEMENT
GENERAL ACCOUNT (UNION BANK)
Jul-12

SOURCES OF FUNDS:

SERVICE LINE INSTALLATION FEES		
BAD DEBT ADJUSTMENT (CORRECTIONS)	771.36	
A/R - WATER	102,912.45	
MISCELLANEOUS REVENUE	817.28	
1% GENERAL TAX	1,542.08	
BIGHORN AD VALOREM TAX	30,481.55	
CUSTOMER DEPOSITS	1,000.00	
AMES REIMBURSEMENT (MWA)	33,915.52	
FIXED ASSET MOBILE EQUIP (OVERPAID)	120.00	
TOTAL		**171,560.24**

USE OF FUNDS:

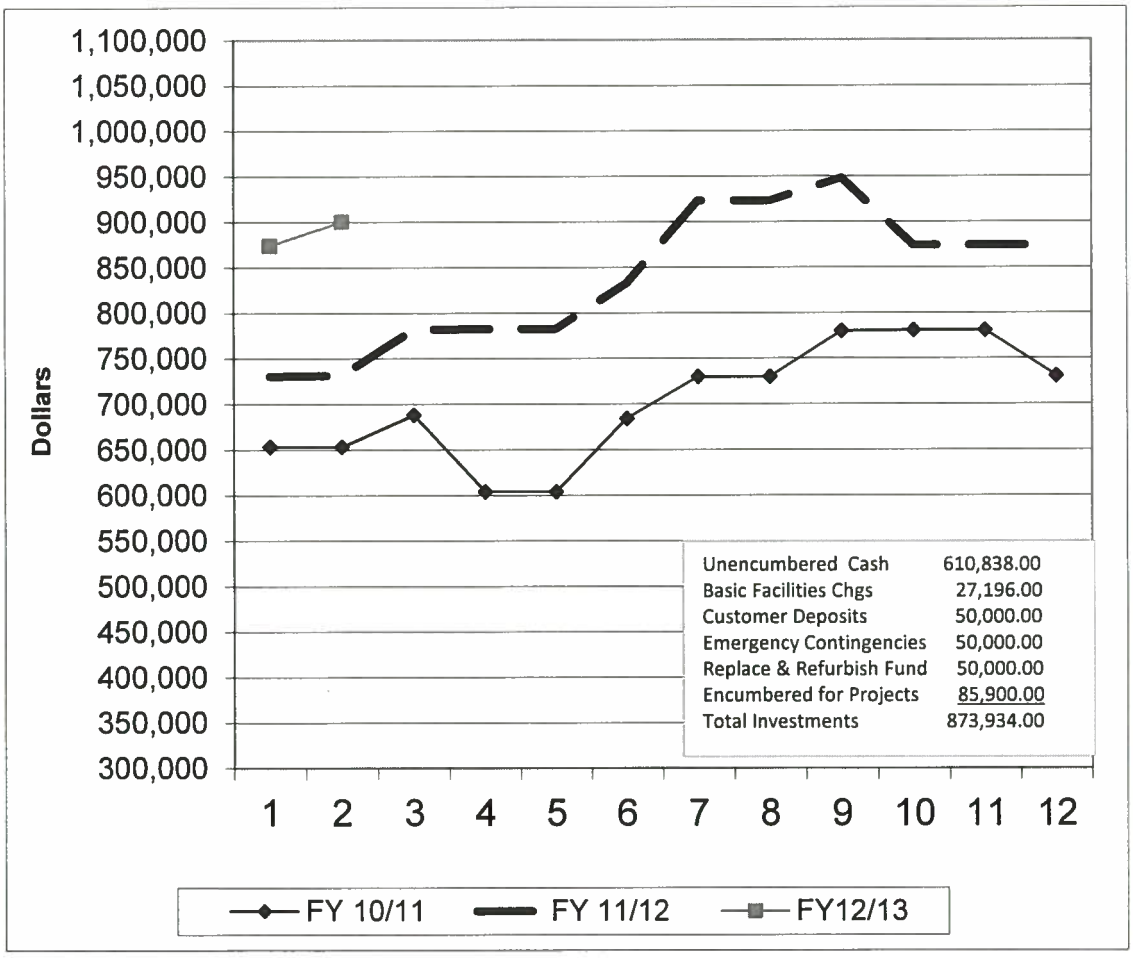
A/R WATER & OTHER	295.55	
CAPITAL PURCHASES (EPA GRANT)	1,875.00	
CAPITAL PURCHASES (C-BOOSTER)	1,130.87	
CAPITAL PURCHASES (PRV 13)	456.98	
FRONT ENCLOSURE	180.00	
INVENTORY PURCHASES	799.24	
PREPAIDS	29,119.97	
PAYMENTS FOR SALARIES & WAGES	31,236.99	
OPERATIONS EXPENSES	11,135.61	
ADMINISTRATIVE EXPENSE	11,732.76	
TRANSFER FROM LAIF		
TOTAL		**87,962.97**

Prepared By GB
Date 8/17/12
Reviewed By

Local Agency Investment Fund Balance Timeline

Balance as of

	FY 10/11	FY 11/12	FY 09/10
July	653,168	730,685	873,934
August	653,168	731,593	900,518
September	688,168	781,593	
October	604,025	782,302	
November	604,025	782,302	
December	684,025	832,302	
January	729,762	923,069	
February	729,762	923,069	
March	779,762	948,069	
April	780,685	873,934	
May	780,685	873,934	
June	730,685	873,934	



Prepared By DB

Date 8/17/12

Reviewed By MMZ

T:\A-Month End Reports\LAIF Graph

DATE: August 1, 2012
TO: Marina West
FROM: Lily Shelton
RE: Consumption & Billing Comparison July 2012

Consumption

Residential- North- Bighorn

	Meters	Usage (c.f.)
Book 1	148	286,711
Book 2	183	278,747
Book 3	161	214,065
Book 4	152	207,302
Book 5	128	175,372
Book 6	137	205,493
Total	**909**	**1,080,979**

Residential- South- Desert View

	Meters	Usage (c.f.)
Book 7	164	428
Book 8	176	564
Book 9	188	0
Book 10	178	614
Book 11	191	1,528
Total	**897**	**3,134**

Bulk -Kickapoo, Well 4, Cherokee

	Meters	Usage (c.f.)
Book 30	41	24,336
Book 31	6	5,376
Book 32	4	15,670
Total	**51**	**45,382**

Construction Meters

	Meters	Usage (c.f.)
Book 40	0	0
Total	**0**	**0**

Bulk - Well 10

	Meters	Usage (c.f.)
Book 33	51	25,152
Total	**51**	**25,152**

Billed Consumption	1,441,358
Non Billed Usage	15,848
Total Consumption	**1,457,206**

Active Residential Meters	1,806
Active Bulk Meters	98
Total Active Meters	**1,904**

Billing Comparison

	This Year JULY 2012	Last Year JULY 2011	Difference JULY (Less)
Statistics			
Total Customer Accounts	995	996	(1)
Usage in Cubic Feet	1,441,358	1,369,108	72,250
Percentage Increase/(Decrease)			5%
Revenues			
Water Revenues	47,120.21	45,638.99	1,481.22
Basic Service Charge	50,014.25	50,183.83	(169.58)
Miscellaneous	346.10	295.55	50.55
Delinquent Charges	1,534.51	1,501.39	33.12
Total Operating Revenues	**99,015.07**	**97,619.76**	**1,395.31**
Debt Service Revenues (pass through)			
FMHA **	21.10	35.68	(14.58)
Total Debt Service Revenues	**21.10**	**35.68**	**(14.58)**

Additional Information Regarding Pass Through Revenues

*** FMHA annual debt service of $41,150 divided over 6 months equals $6,858*

Total Charges (Proof)	**99,036.17**	**97,655.44**

Date: 7/1/12
To: Marina West
From: Lily Shelton
Subject: Service Order Report July 2011 through June 2012
Update for June 2012

	J	A	S	O	N	D	J	F	M	A	M	J	YTD
After Hours Call	5												
Maint. Bulk Station (New	0												
Close Account	12												
Customer Service	4												
Customer Leak	0												
Destroy Service Line	1												
Exchange Meter	0												
Fire Flow Test	0												
Flush Deadend/Blowoffs	0												
Hangtag (not 48 hour)	3												
Install New Service	0												
Leak Response	6												
Lock-Off Service	12												
Repair Mainline	1												
Miscellaneous	19												
Office Repairs	3												
Open New Service	12												
Pressure Complaint	0												
Pull Meter	0												
Read Meter	0												
Repair Service Line	14												
Replace Service Line	0												
Reread Meter	22												
Safety Meeting (New Cat	1												
Tamper	1												
Unlock Service	11												
Valve Maintenance	1												
Verify Meter Locked	4												
Well Repairs	0												
Water Issues **	0												
Hydrant Maint.	27												
TOTAL	159												

Fire Hydrant Maintenance and Overhaul activities began in November 2010

*** Includes Water Quality (taste, odor, color) as well as high or low pressure concerns.*

DATE: 7/20/2012

TO: Board of Directors

FROM: Kit Boyd

RE: JULY

	Cubic Feet Pumped	Total Gallons Pumped	Average GPM	Total Running Time	acre feet
Well 2	660	4,937	#DIV/0!	0	0.02
Well 3	273,300	2,044,284	236	144.5	6.27
Well 4	0	0	#DIV/0!	0	0.00
Well 6	234,420	1,753,462	424	68.9	5.38
Well 7	290,850	2,175,558	359	101.1	6.68
Well 8	380,500	2,846,140	923	51.4	8.74
Well 9	841,900	6,297,412	672	156.3	19.33
Well 10	13,100	97,988	36	45	0.30
Total	2,034,730	15,219,780			46.71

Well 2 Bac T sample only

Well 4 is in "inactive" status with the Department of Public Health

New C booster (east) side

A Boosters	56,003,500	418,906,180	72,955	95.7	
C Boosters	439,400	3,286,712	303	180.8	
Total	56,442,900	422,192,892			

Bighorn-Desert View Water Agency

Board of Directors
Michael McBride, President
Judy Corl-Lorono, Vice President
David Larson, Director
Terry Burkhart, Director
J. Dennis Staley, 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

Pending Board Approval

BOARD OF DIRECTORS' REGULAR MEETING MINUTES

BOARD MEETING OFFICE
1720 N. Cherokee Trail, Landers, CA 92285
Tuesday, July 24, 2012 - 6:00 p.m.

CALL TO ORDER
Meeting convened by Board President Michael McBride at 6:02 p.m.

PLEDGE OF ALLEGIANCE
Led by Lary Callander.

ROLL CALL

Directors Present:	David Larson Judy Corl-Lorono Michael McBride Terry Burkhart J. Dennis Staley
Staff Present:	Marina West Michelle Corbin

APPROVAL OF AGENDA
Motion to approve the agenda.
MSC[1] (Burkhart/Corl-Larson) unanimously approved.

PUBLIC HEARING: RESOLUTION 12R-25 – 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
General Manager West gave the staff report.

Public comments:
Lary Callander of Yucca Valley stated that he has purchased properties through the tax sales and often they will sell for well over $100.00.

Mike Lipsitz of Z107.7 stated that he noticed a page is missing within the board package.

GM West clarified that a single page of the Resolution was missing, an administrative error, but that the backup material for the staff report included a copy of the full Resolution published in the Hi Desert Star. Therefore, she felt the Board could proceed with consideration of the Resolution.

MOTION NO. 12-056

(After brief Board discussion), Director Burkhart made a motion to execute Resolution 12R-25 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. Vice President Corl-Lorono seconded the motion.

Roll Call Vote:

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

MSC[1] (Burkhart/Corl-Lorono) unanimously approved.

COST AND SCOPE OF SERVICES PROVIDED BY CHIEF ENGINEER TO PREPARE CONTRACT DOCUMENTS AND PROJECT MANAGEMENT/CONSTRUCTION INSPECTION SERVICES FOR RECOATING REPAINTING OF TWO RESERVOIRS AT A COST ESTIMATE OF $85,900

General Manager West gave the staff report.

Public comments:

Lary Callander of Yucca Valley asked if W-1 had storage tanks. He also inquired about the life of the tanks.

Bob Karman of Yucca Mesa suggested the Agency use the recoating/repainting of the reservoirs as a public relations project.

Anonymous asked if the work involves safety upgrades.

Director Staley questioned how often the tanks need to be recoated and which tanks should be done first.

President McBride suggested the Agency add up to two more tanks to the project.

MOTION NO. 12-057

(After brief Board discussion), Director Larson made a motion to authorize General Manager to execute Work Order No 4A with Krieger and Stewart, Inc. for project management/construction inspection services for recoating and repainting of (up to) four reservoirs in conjunction with scope of services dated June 15, 2012 at a cost estimate of $85,900; and authorize filing of categorical exemption for the proposed project in accordance with CEQA; and authorize publication of notice inviting bids for recoating and repainting of (up to) four reservoirs; and authorize transfer of funds from the "unencumbered cash" fund to the "replacement and refurbishment" fund. The motion was seconded by Director Burkhart.

MSC[1] (Larson/Burkhart) unanimously approved.

Adjourned for a break at 7:00 p.m. - Reconvened at 7:06 p.m.

Pending Board Approval

CONSIDER CREATION OF AN AD HOC COMMITTEE TO PARTICIPATE IN OUTREACH REGARDING THE SPHERE OF INFLUENCE EXPANSION OVER COUNTY SPECIAL DISTRICTS ZONE W-1/LANDERS (W-1)
General Manager West gave the staff report.

Public comments:
Bob Karman of Yucca Mesa asked if an Ad Hoc Committee may also involve people that live in the W-1 community.

Elizabeth Karman of Yucca Mesa stated that for the record she supports the creation of an Ad Hoc Committee.

Lary Callander of Yucca Valley questioned if someone from the general public could be on the committee. He also discussed potential opposition.

Mike Lipsitz of Z 107.1 questioned if the Agency would be able to assist a grass roots group from W-1.

GM West clarified that a single page of the Resolution was missing, an administrative error, but that the backup material for the staff report included a copy of the full Resolution published in the Hi Desert Star. Therefore, she felt the Board could proceed with consideration of the Resolution.

MOTION NO. 12-058

(After brief Board discussion), Director Larson made a motion to create an Ad Hoc Committee to participate in outreach regarding the sphere of influence expansion over County Special District Zone W-1/Landers (W-1). Director Burkhart seconded the motion.

MSC[1] (Larson/Burkhart) motion carried.

Following the motion President McBride appointed Vice President Corl-Lorono and Director Staley to the Ad Hoc Committee.

CHANGE IN SCHEDULE FOR THE MOJAVE WATER AGENCY LEGAL, LEGISLATIVE AND PUBLIC INFORMATION COMMITTEE AND ITS CONFLICT WITH REGULARLY SCHEDULED PLANNING/LEGISLATIVE/ENGINEERING/GRANT/SECURITY STANDING COMMITTEE
General Manager West gave the staff report.

No public comment.

MOTION NO. 12-059

(After brief Board discussion), Director Larson made a motion to direct the Planning/Engineering/Grant/Security Standing Committee to change the meeting date and time to coincide with the regular meeting date of the Mojave Water Agency Legal, Legislative and Public Information Committee; and direct staff to revise Policy Statement No. 08P-03 and bring back to the Board for formal adoption at a regularly scheduled Board of Directors meeting; and to appoint an alternate committee member to both the PLEGS and FPREP Committees. Vice President Corl-Lorono seconded the motion.

MSC[1] (Larson/Corl-Lorono) unanimously approved.

DISBURSEMENTS JUNE 2012

No Public Comment

MOTION NO. 12-060

Vice President Corl-Lorono made a motion to ratify the Disbursements (Check Register - Payment of Bills) for June 2012. Director Burkhart seconded the motion.

Pending Board Approval

MSC[1] (Corl-Lorono/Burkhart) unanimously approved.

CONSENT ITEMS

- **a.** Financial Statements June 2012
  1. Balance Sheet
  2. Statement of Revenue and Expense
  3. General Account (Union Bank)
  4. Disbursements
  5. Local Agency Investment Fund Balance Timeline
- **b.** Consumption & Billing Comparison Report, June 2012
- **c.** Service Order Report, June 2012
- **d.** Production Report, June 2012
- **e.** Special Board Meeting Minutes, June 19, 2012
- **f.** Receive and File Reche Spreading Grounds Recharge Feasibility Study Completed February 2011
- **g.** Consider Authorizing Attendance to the 6th Annual San Bernardino County Water Conference August 10, 2012 at a Maximum Estimated Cost of $300 per Director.

No Public comment.

MOTION NO. 12-061

Director Burkhart made a motion to approve consent items a - g. The motion was seconded by Vice President Corl-Lorono.

MSC[1] (Burkhart/Corl-Lorono) unanimously approved.

MATTERS REMOVED FROM CONSENT ITEMS - None

PUBLIC COMMENT PERIOD

Bob Karman of Yucca Mesa commented that the BOD should consider creating a standing committee on public relations.

VERBAL REPORTS

General Manager West informed the Board about the recent legislative alert regarding the Brown Act and that if Proposition 30 passes, the Brown Act requirements will resume. GM West suggested no change in procedures and the Board of Directors agreed. Also, she stated the Mojave Water Agency passed a resolution concerning the Morongo Basin Pipeline Debt and the increase from eight to ten and one half cents per every one hundred dollars of assessed value.

Director Larson reported on the Homestead Valley Association meeting he had recently attended. They discussed opposition to the Cadiz water issue and spoke again about the base expansion.

Vice President Corl-Lorono reported on the AWAC meeting she had attended that day.

Director Larson was excused from the meeting at 7:48 p.m.

President McBride questioned the status of the gross alpha sampling at well Nos. 2 & 3 and blending in the B tanks.

FUTURE AGENDA ITEMS

No items were suggested

ADJOURNMENT - President McBride adjourned the meeting at 7:54 p.m.

Pending Board Approval

Approved by:

David Larson, Secretary of the Board

MSC[1] – Motion made, seconded, and carried.

Pending Board Approval

BIGHORN DESERT VIEW WATER AGENCY
AGENDA ITEM SUBMITTAL

Meeting Date: August 28, 2012

To: Board of Directors

From: Marina West

Budgeted: No
Funding Source: N/A
Cost: $0 (prepared by staff)
General Counsel Approval: N/A
CEQA Compliance: N/A

Subject: 2011 Ames Valley Water Basin Monitoring Program Report

SUMMARY

The 2011 Ames Valley Water Basin Monitoring Program annual report was completed in August 2012 per the terms of the Ames Valley Water Basin Agreement (1991, et al). The Board should annually receive and file this report.

RECOMMENDATION

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

1. Receive and file the 2011 Ames Valley Water Basin Monitoring Program Report.

BACKGOUND/ANALYSIS

Under the Ames Valley Water Basin Agreement and Amendment Nos. 1 & 2, an annual monitoring report is required to ensure compliance. The primary conditions documented in the annual report are monthly groundwater production and water level measurements as well as annual water quality sampling from "key" wells within the boundaries of the Ames Valley Water Basin as defined in the January 10, 1991 Agreement. The monitoring area is generally confined to wells within the Pipes and Reche Groundwater Subbasins (USGS defined Morongo Groundwater Basin and Subbasin boundaries) of the Ames Valley Groundwater Basin (DWR defined boundary).

A summary of the key monitoring parameters are as follows:

- HDWD Well No. 24 produced 298.88 AF last year which was down from prior years as the well was off-line for maintenance.
- Cumulative change in water level is -27 feet in December 2010 up from -32.3 in 2010.

Due to the size of the report only the discussion pages have been included herein, however, the report is available for viewing during normal business hours at the Agency main office. The report is also posted on the Agency website announcements page.

PRIOR RELEVANT BOARD ACTION(S)

4/26/2011 Receive and file Ames Valley Water Basin Monitoring Program Report (January 2010 to December 2010).
4/27/2010 Accept and file the Ames Valley Water Basin Monitoring Program Report (January 2009 to December 2009).

BIGHORN-DESERT VIEW WATER AGENCY
HI-DESERT WATER DISTRICT

AMES VALLEY WATER BASIN

MONITORING PROGRAM

FOR THE PERIOD

JANUARY 2011 THROUGH DECEMBER 2011

Prepared by Staff

August 2011

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PLATE 2
Aerial Photo with Well Locations and Water Surface Elevations — Located inside back cover

LIST OF FIGURES

FIGURE 1
Hydrograph Showing Groundwater Surface Elevations:
"Mainstream Well" HDWD#24

FIGURE 2
Hydrograph Showing Groundwater Surface Elevations:
BDVWA #2
BDVWA #3
BDVWA #4
BDVWA #8
USGS Well

FIGURE 3
Hydrograph Showing Groundwater Surface Elevations:
County Service Area 70 Well W-1 #1
County Service Area 70 Well W-1 #2

FIGURE 4
Hydrograph Showing Groundwater Surface Elevations:
BDVWA #6
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BDVWA #9

FIGURE 5
Hydrograph Showing Groundwater Surface Elevations:
Gubler Farm Well #G01
Gubler Farm Well #K01

LIST OF APPENDICES

APPENDIX A – Production Data

- Summary table of monthly Ames Basin Water Production (Jan. 2011 to Dec. 2011); and

- Table of monthly groundwater production by Ames Valley Water Basin wells January 1991 through December 2011.

APPENDIX B – Water Elevation Data

- Table of Ames Basin Groundwater Elevations for the month of September for the time period 1993 through 2011; and
- Table of Elapsed Time Since Commencement of Production by Mainstream Well and Corresponding Cumulative Change in Water Level in Production Wells (defined by Exhibit B of AGREEMENT); and
- Table of Elapsed Time Since Commencement of Production by Mainstream Well and Corresponding Cumulative Change in Water Level in Monitoring Wells (defined by Exhibit B of AGREEMENT); and
- Tables (one per well) of monthly groundwater surface elevations for the Ames Valley Water Basin Monitoring Wells January 1990 through December 2011.

APPENDIX C – Water Quality Data

- Summary Table of Ames Basin Water Quality Data (Fluoride, Total Dissolved Solids and Gross Alpha) submitted by the participants for samples collected August 1993 through December 2011; and
- All groundwater quality laboratory analysis reports submitted by the participants for samples collected January 2011 to December 2011.

APPENDIX D – Precipitation Data

- Chart of Annual Precipitation for Water Years 1958 through 2011; and
- Graph of Accumulated Departure from Average Precipitation for Water Years 1958 through 2011; and
- Table of Annual Precipitation Data by Water Year, 1958 through 2011.

APPENDIX E – Ames Valley Water Basin Agreement (1991)

- Ames Valley Water Basin Agreement and Amendments (herein AGREEMENT)

APPENDIX F – Ames/Reche Groundwater Storage and Recovery Program Agreement (2012)

- Executed Ames/Reche Groundwater Storage and Recovery Program and Management Agreement (herein New Agreement) and associated Monitoring Program Plan.

INTRODUCTION

This report has been prepared pursuant to the provisions of the AMES VALLEY WATER BASIN AGREEMENT, Stipulated Judgment and associated Amendments (AGREEMENT – Appendix E), between Hi-Desert Water District (HDWD) and Bighorn-Desert View Water Agency (BDVWA) dated January 10, 1991 thorough 2002. One deviation from the AGREEMENT is that in-house staffs, rather than an independent third party consultant, have prepared this data report. This arrangement was pre-approved by the BDVWA Board of Directors and management of the HDWD. The 2011 report marks twenty (20) years of cumulative data collection and reporting.

Since 2008, HDWD and BDVWA have made incremental progress towards a re-structured, regionally based, groundwater management plan for the Ames Valley Water Basin. Of particular importance is their recognition that long-term sustainability requires the harmonious combination of both groundwater and imported water in order to minimize the undesirable physical, environmental and economical effects of each in optimizing the water demand/supply balance for the region. Formal decisions have been made to implement a new agreement which includes a groundwater monitoring and data reporting program, nearly identical to the existing program, which will be administered by the Mojave Water Agency (MWA) on behalf of the participants (Appendix F – Monitoring Program Plan). In addition, there is a conjunctive use component which augments natural recharge sources for maximizing the yield of the basin. Conjunctive use is recognized as an ideal water management strategy that capitalizes on the wet years and provides a coping strategy during the dry years. This is an efficient and practical technique for ensuring long-term basin and regional water supply sustainability and security for the constituents in the region. The supplemental water source will be imported State

Water Project supplies which will be introduced to the basin through groundwater spreading/recharge activities. State Water Project water is supplied through the Mojave Water Agency and delivered via the Morongo Basin Pipeline.

The purpose of the Morongo Basin Pipeline is to provide additional water resources to the region to supplement the limited native groundwater supplies available to all municipal producers utilizing those resources: HDWD, BDVWA, Joshua Basin Water District, County Special Districts Zone W-1 (Landers) and County Special Districts Zone W-4 (Pioneertown) and MWA. The vision for the Morongo Basin Pipeline began around the same time period that the AGREEMENT and the associated groundwater monitoring and data evaluation program were executed.

A new agreement titled "Ames/Reche Groundwater Storage and Recovery Program and Management Agreement" and the associated Monitoring Program Plan have been executed by the Board's of the BDVWA, HDWD, Mojave Water Agency and County of San Bernardino Board of Supervisors. In order to implement the new agreement, the Parties shall enter into a Stipulation to Enter an Amended and Restated Judgment which supersedes the (original 1991) Judgment and which embodies the terms and conditions of the new 2012 Agreement (Appendix F – Ames/Reche Groundwater Storage and Recovery Program and Management Plan Agreement). County Special Districts Zone W-1 (Landers) and Zone W-4 (Pioneertown) along with Mojave Water Agency will seek to intervene as Parties in the case and join in a joint motion of all Parties hereto for the entry of the Amended and Restated Judgment.

Until the Amended and Restated Judgment is finalized the AGREEMENT shall remain in place and the annual groundwater monitoring and data collection report shall be completed.

However, it is anticipated that the 2011 Ames Valley Water Basin Monitoring Program Report produced in accordance with the AGREEMENT will be the final report produced under the original Stipulated Judgment.

The elements of the original AGREEMENT, attached hereto as Appendix E of this report, place limits on groundwater production by HDWD. It provides for the initial extraction of up to 800 acre-feet per annum by HDWD from its "Mainstream Well" HDWD#24 located in the Ames Valley Water Basin (Ames Basin) and allows for a one-half (1/2) acre foot per year for each new connection within the defined boundaries of the AGREEMENT - Exhibit "A". SECTION 3 of the AGREEMENT requires the implementation of a groundwater monitoring and data evaluation program to identify any environmental damage to the Ames Basin which might be caused by such extractions from a water level as well as water quality standpoint (see Plate 1 attached hereto for locations of Ames Basin wells which are monitored in connection with the AGREEMENT). A request for environmental review could result if such limits are exceeded.

Exhibit "D" of the AGREEMENT sets forth criteria for initiation of environmental review and limits the cumulative water level decline in the production wells to a maximum of eleven (11) feet and a maximum of four (4) feet in the monitoring wells following commencement of production by the "Mainstream Well". Such production began in August 1993. The production and monitoring wells are defined in Exhibit "B" of the AGREEMENT. Exhibit "D" of the AGREEMENT also sets forth the limits of allowable cumulative water quality changes. Specifically noted in the AGREEMENT are fluoride, total dissolved solids and gross alpha although monitoring of all Title 22 constituents is required by the AGREEMENT.

This report updates the previous report dated April 2011 and presents a compilation and

discussion of the water level and water quality data collected for the period January through December 2011 relative to the criteria set forth in Exhibit "D" of the AGREEMENT. In this report, all tables have been updated and footnoted to include and clarify any data not previously received or corrected if errors in prior reports were discovered.

BASIC DATA

Figures 1 to 5, referenced herein, are water level hydrographs for the period 1990, when production and monitoring of the Mainstream Well HDWD#24 commenced, through 2011. Overlaid on the hydrographs are the corresponding monthly production totals, and precipitation data. Some figures include hydrographs for multiple wells which are located in close proximity to one another or in the same groundwater subbasin therefore displaying similar data trends over time. The figures included in this report are summarized as follows:

- Figure 1: "Mainstream Well" HDWD#24 (Reche Subbasin, Yucca Mesa/Landers)
- Figure 2: BDVWA #2, #3, #4, #8 and USGS Well (Pipes Subbasin, Flamingo Heights)
- Figure 3: CSA 70 W-1 #1 and #2 (Reche Subbasin, Landers Post Office)
- Figure 4: BDVWA #6, #7 and #9 (Reche Subbasin, Landers)
- Figure 5: Gubler Farm Well #G01 and #K01 (Reche Subbasin, Landers)

Appendices A, B, C, D, E and F, attached hereto, are compilations of the basic data which were collected, referenced and used in the preparation of this report, such data include the following:

- Appendix A: Production Data
- Appendix B: Water Elevation Data
- Appendix C: Water Quality Data
- Appendix D: Precipitation Data
- Appendix E: AGREEMENT
- Appendix F: New Agreement

CONCLUSIONS

The data reported herein indicate the following:

Water Production

The amount of water produced by the "Mainstream Well" (HDWD 24) for the 2011 calendar year was 298.88 acre-feet. The maximum monthly amount of water produced was 48.94 acre-feet in December. The minimum amount was 0.0 acre-feet in April, May and June when the well was off-line for maintenance. The average monthly production for the period January 2011 through December 2011 was 24.91 acre-feet. All data pertaining to water production is included in Appendix A.

Water Surface Elevations:

Prior to production (between construction and initiation of), the water level in the "Mainstream Well" remained relatively constant at about elevation 3020 (Figure 1). When pumping commenced in 1993, the water surface elevation began to steadily decline, notwithstanding annual fluctuations, to elevation 2993 (27 feet) by calendar year 2000. Between the years 2000 and 2011 the water elevation increased and remained above elevation 2993 until 2009. Between September 2009 to May 2010 the water level in the Mainstream Well was at the lowest recorded at elevation 2983 (37 feet) after which the water elevation increased to 2993 by December 2011. The water level increase is likely due to reductions in total annual production from the Mainstream Well as well as a three month period of zero (0) production in 2011 when the Mainstream Well was off-line for maintenance (See Appendix A: Production Data). In addition, precipitation levels were near average in 2011 with 2010 being an above average

rainfall period (See Appendix D: Precipitation Data). However, the current water level remains below the minimum level established by the AGREEMENT.

Water surface elevations in BDVWA wells #2, #3, #4, #8 and the USGS test well have gradually declined since monitoring began in 1993 (Figure 2). After an initial decline of 17 to 22 feet from 1993 through 1995, when water was delivered to HDWD through an "intertie" with the BDVWA water system in Flamingo Heights, the water surface elevations in the wells were relatively stable from around 1996 through 2000. However, levels began declining in 2001 and by December 2011 the static water levels in Wells #2 and #3 were at elevation 3228, approximately 10 feet below the 2001 level and unchanged from the prior year. In December 2011, the static water level in Well #4 was at elevation 3233 approximately 6 feet below the 2001 level and unchanged from the prior year. Well #8 was at elevation 3224 with the water surface approximately 17 feet below the 2001 water level and approximately 3 feet lower than the prior year likely caused by an increase in production. In December 2011, the USGS test well was at elevation 3229, approximately 19 feet below the 2001 level and about 1 foot higher than the prior year. Well #2 remained offline during 2011 and Well #4 has been offline since 2008. Wells #2, #3, #4 and #8 all produce water from the Pipes Groundwater Subbasin of the Ames Valley Water Basin underlying the service area known as Flamingo Heights which is upgradient from "Mainstream" HDWD #24. Total production from wells #2, #3, and #4 has been significantly reduced in the past few years due to elevated uranium (gross alpha) and the initiation of quarterly compliance monitoring. Production has shifted to Well #8 which has lower levels of uranium and gross alpha. Cumulatively the water levels in Wells #2, #3, #4, #8 and USGS have declined from 27 to 36 feet at the end of 2011. The current water levels are now below the minimum levels established by the AGREEMENT.

County Service Area (CSA) Wells #1 & #2, which are downgradient from the "Mainstream Well" HDWD #24 showed declines in static water levels of about 9 feet and 5 feet as of December 1999 and remained essentially unchanged through the year 2001. Between 2001 and 2011, the wells showed a decline, with Wells #1 and #2 ending 2011 at elevation 2849 and 2850, or roughly 10 feet below the 2001 levels. The cumulative water level decline since 1993 is approximately 21 feet. The current water levels are below the minimum levels established by the AGREEMENT.

In summary, analysis of the data and associated hydrographs shows that groundwater surface elevations decreased rapidly as a result of increased pumping rates from around 1990 through 1996. The rapid decrease in elevation indicates that Ames Basin may not sustain existing water surface elevations should future pumping rates approach those experienced in 1990-1996 and mitigation measures should be considered necessary. All data pertaining to water levels is included in Appendix B.

Water Quality

Water quality data are provided in Appendix C. Included therein is a summary table of Ames Basin Water Quality Data (Fluoride, Total Dissolved Solids and Gross Alpha) submitted by the participants for samples collected August 1993 through December 2011. Data presented in the column entitled "Percent Change" are based on the first data report available for 1993 and the most recent data available. Total Dissolved Solids (TDS) data presented each year through November 2003 ranges from 220-250 mg/L for the "Mainstream Well". Alpha levels measured 9.52 pCi/L at the "Mainstream Well", 6.7 pCi/L at BDVWA #7 and 0.00 pCi/L at BDVWA #8 in December 2011, which represent respective increases of 38%, -16% and -100% from the August

1993 readings and no longer exceed the limits established by the AGREEMENT as documented in the 2010 annual report where the gross alpha represented respective increases of 68%, 56% and 90%. Due to increases in gross alpha and uranium over time, the new monitoring program requires testing for gross alpha at least annually or as prescribed by the Department of Public Health. As mentioned previously, Wells #2 and #3 are now required to be tested quarterly due to levels which consistently exceed one-half (1/2) the Maximum Contaminant Level (MCL) of 15 pCi/L. Gross alpha levels exceed the conditions specified by Exhibit "D" of the AGREEMENT.

RECOMMENDATIONS

Previous reports have not provided specific recommendations based on the monitoring results and conclusions however the HDWD has long expressed an interest in having a groundwater recharge facility within the Ames Valley Groundwater Basin where State Water Project water being delivered through the Morongo Basin Pipeline could be stored.

BDVWA has now spent a significant amount of time and financial resources to develop a recharge facility needed to eventually access its own State Water Project allocations through the Morongo Basin Pipeline. Lastly, the Ames Valley Water Basin Agreement while providing an effective means of managing basin production by HDWD it ignores a third producer in the basin, County Special Districts Zone W-1 (Landers), who in the past has expressed intent to export water production from Zone W-1 (Landers) to Zone W-4 (Pioneertown).

In 2006, the Mojave Water Agency (MWA) pledged $1M towards the construction of the Ames/Reche (Ames/Means project defined in the MWA 2004 Integrated Regional Water Management Plan) Recharge Facility. Sometime prior to this the managers of HDWD, BDVWA, County Special Districts Department and MWA began regular meetings to discuss a re-structured basin management concept.

In 2008, a guidance document ("Strawman" proposal) was approved, by a majority of the parties, which outlined parameters for the development of a groundwater management plan and construction of an artificial recharge project in the Reche Groundwater Subbasin of the Ames Valley Groundwater Basin. On August 25, 2009, BDVWA and MWA signed a Memorandum of Understanding through which BDVWA, to augment its financial contributions, accepted

financial participation from MWA to fund planning and design phases of the Ames Recharge Project. By 2010, the "Strawman" guidance document became formalized as the "Principles of Agreement" (POA). The purpose of the POA was not to define, assign or otherwise acknowledge or make a determination of water rights within the Reche Basin Management area, it was an attempt to provide for a reasonable settlement of an allowance for pumping water from the basin and obligations of each party to work cooperatively to avoid basin overdraft and to provide for mitigating measures to bring the basin into balance should overdraft occur.

On June 29, 2010 by Resolution the BDVWA Board of Directors approved the "Water Infrastructure Restoration Program: Ames/Reche Groundwater Storage and Recovery Program and Pipeline Installation/Replacement Program" through adoption of a Mitigated Negative Declaration in conformance with the California Environmental Quality Act (CEQA). The location of the Ames Recharge Facility was based on prior studies conducted by BDVWA in conjunction with MWA. In particular the April 2007 "Basin Conceptual Model and Assessment of Water Supply and Demand for the Ames Valley, Johnson Valley and Means Valley Groundwater Basins" and the associated "Report on the Geophysical Investigations for the Ames, Means and Johnson Valleys Near Yucca Valley, CA".

A right-of-way application was submitted to the Bureau of Land Management (BLM) for long-term access to property within the Pipes Wash for construction and operation of the Ames/Reche Recharge Facility in June 2009. Thereafter, BDVWA awarded a contract to evaluate the feasibility of implementing a conjunctive use project at the proposed Pipes Wash location which

would benefit HDWD, County Special Districts Zones W-1 and W-4, MWA in addition to BDVWA.

The primary purpose of this Study was to evaluate the feasibility of recharging up to 1,500 acre feet per year (AFY) of imported SWP water through the Reche Recharge Facility. The 1,500 AFY represents, for the near future, an initial amount of SWP water likely to be desired for recharge in the Reche Subbasin by the parties. Specific objectives of the Feasibility Study included the following:

1. Characterize subsurface conditions beneath the Reche Recharge Facility to determine the feasibility of long-term infiltration of SWP water; and
2. Evaluate the hydraulic impacts of recharge operations at various rates and schedules, including water table mounding beneath the spreading grounds and groundwater flow to downgradient discharge points; and
3. Characterize groundwater quality establishing baseline conditions to evaluate future water quality impacts from recharge operations; and
4. Identify regulatory permit requirements to construct and operate the Ames/Reche Recharge Facility.

By September 2010, BLM had allowed access to the proposed site for the completion of two monitoring wells constructed as part of the site-specific recharge feasibility study. The Feasibility Study was completed in February 2011. Subsequent to the completion of the Feasibility Study and concurrent with the development of the new Agreement a Groundwater Management Plan (GWMP) was also drafted. The goals of the GWMP were to:

1. Operate the Pipes and Reche groundwater subbasins in a sustainable manner for beneficial uses; and

2. Increase the reliability of the local water supply for all subbasin users; and
3. Support the updated Ames Valley Water Basin Agreement (Appendix F).

To achieve this goal, BDVWA recognized the importance of characterizing the water supply and water demand conditions in the Pipes and Reche Subbasins including the upper catchment area surrounding Pioneertown and identifying specific issues to be addressed through coordinated planning and cooperative management. The GWMP follows guidelines set forth in Assembly Bill (AB) 3030, which was promulgated in 1992 and allows local agencies to prepare and adopt GWMP's (California Water Code Sections 10750 through 10756). The bill was amended in 2002 by Senate Bill (SB) 1938, which provided additional GWMP requirements. The GWMP was completed and adopted by the BDVWA Board of Directors in February 2012.

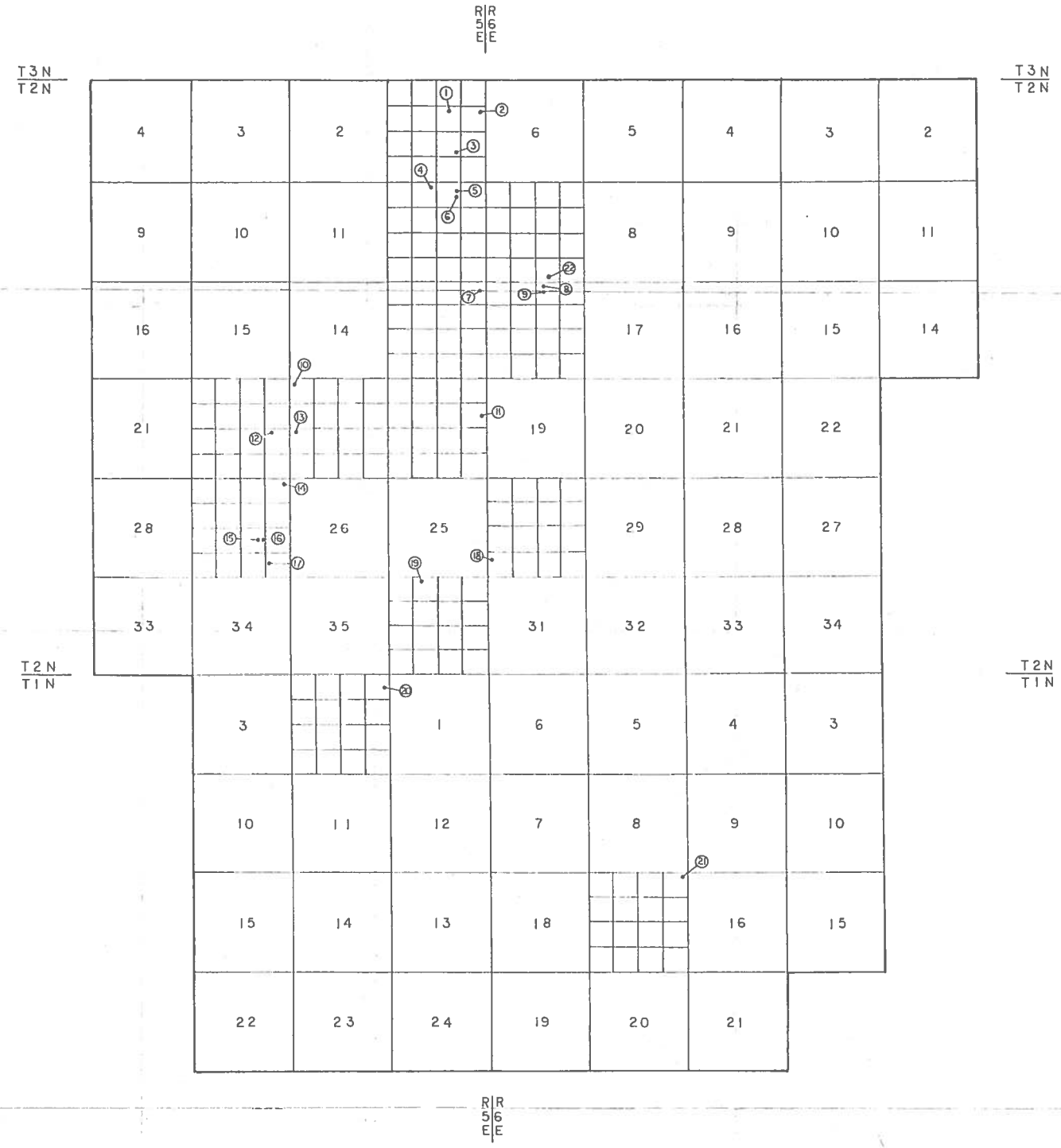
Beginning January 2011 the parties began having formal meetings to draft the "Ames/Reche Groundwater Storage and Recovery Program and Management Agreement" (Appendix F). This document was executed by each of the governing bodies for the participating entities, County of San Bernardino, HDWD, BDVWA and MWA. This process was completed by March 2012 concurrent with the finalization of the Groundwater Management Plan.

In conclusion, this report of the Ames Valley Water Basin Monitoring and Reporting Program for the 2011 calendar year is intended to be the last. The HDWD and BDVWA have formally agreed to abandon the 1991 Stipulated Judgment and associated Agreement and subsequent Agreement amendments. MWA has completed, to 90%, the design of a 6 acre recharge area, conveyance pipeline and outlet structure in addition to obtaining all pipeline easements from private property owners. BDVWA has obtained a Section 1602 Streambed Alteration Agreement from CA Fish and Game along with a waiver from Section 404 Streambed Alteration Permit requirements from the Army Corps of Engineers. A Biological Opinion and

Incidental Take Permit have been authorized by the US Dept. of Fish and Wildlife and the CA Fish and Game Section 2081 Incidental Take Permit is 90% complete. BDVWA is continuing to work with BLM on the NEPA Environmental Assessment which is 90% complete and undergoing review by BLM at the time of publication of this report. MWA is committed to financing construction, operation and maintenance of the Ames/Reche Recharge Facility upon execution of a right-of-way agreement between BDVWA and BLM. The BLM right-of-way agreement is expected to be finalized by September 2012 and thereafter a separate Agreement between MWA and BDVWA will be necessary to convey operations and maintenance responsibilities for the facility to MWA. In the meantime, the terms and conditions for monitoring the Ames Valley Water Basin under the original AGREEMENT will continue until the revised Judgment is finalized. This is expected to occur immediately upon completion and initiation of operation of the Ames/Reche Recharge Facility.

PLATE 1

AMES VALLEY WATER BASIN MONITORING PROGRAM
WELL LOCATION MAP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33 34 35 31 32 33 34
3 1 6 5 4 3
10 11 12 7 8 9 10
15 14 13 18 16 15
22 23 24 19 20 21
1 ..... 2N/5E/13G1
2 ..... 2N/5E/1M1
3 ..... 2N/5E/1K1
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5 ..... 2N/5E/17P1
6 ..... 2N/5E/12N2
7 ..... 2N/5E/1 1A
8 ..... 2N/6E/18B1
9 ..... 2N/6E/18B2
10 ..... 2N/5E/23D
11 ..... 2N/5E/24H
12 ..... 2N/5E/22-1018
13 ..... 2N/5E/22M
14 ..... 2N/5E/27A
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17 ..... 2N/5E/27R
18 ..... 2N/6E/30N1
19 ..... 2N/5E/36C
20 ..... 1N/5E/2A
21 ..... 1N/6E/11A
22 ..... 2N/6E/7Q
BOUNDARY OF AMES GROUNDWATER BASIN (ADOPTED)
G Barkman
DRAWN BY:
2/5/97
DATE:

PLATE 1

FIGURES 1 – 5

AMES VALLEY WATER BASIN MONITORING PROGRAM
HYDROGRAPHS SHOWING CHANGES IN GROUNDWATER SURFACE ELEVATIONS, PRECIPITATION AND
WATER PRODUCTION AMOUNTS FOR SELECTED WELLS
JANUARY 1990 – DECEMBER 2011

Figure	Well Hydrograph
1	HDWD#24
2	BDVWA #2
2	BDVWA #3
2	BDVWA #4
2	BDVWA #8
2	USGS Well
3	CSA 70 W-1 #1
3	CSA 70 W-1 #2
4	BDVWA #6
4	BDVWA #7
4	BDVWA #9
5	Gubler Farm Well G01
5	Gubler Farm Well K01

Figure 1
Groundwater Surface Elevations
Water Production Data
and Precipitation
Mainstream Well (HDWD #24)

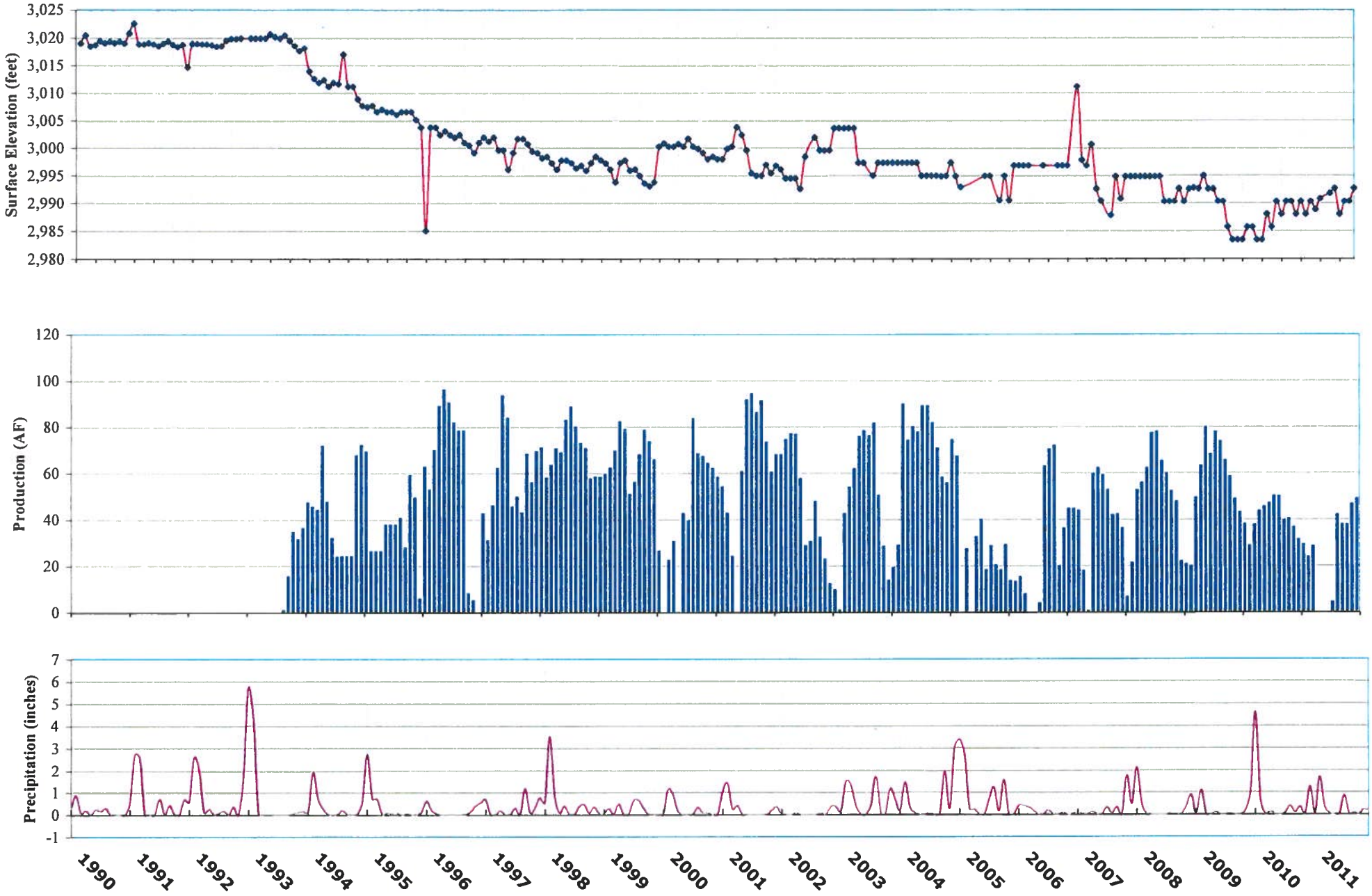


Figure 1

Figure 2
Groundwater Surface Elevations
Water Production Data
and Precipitation
BDVWA #2, BDVWA #3, BDVWA #4, BDVWA #8 and USGS WELL

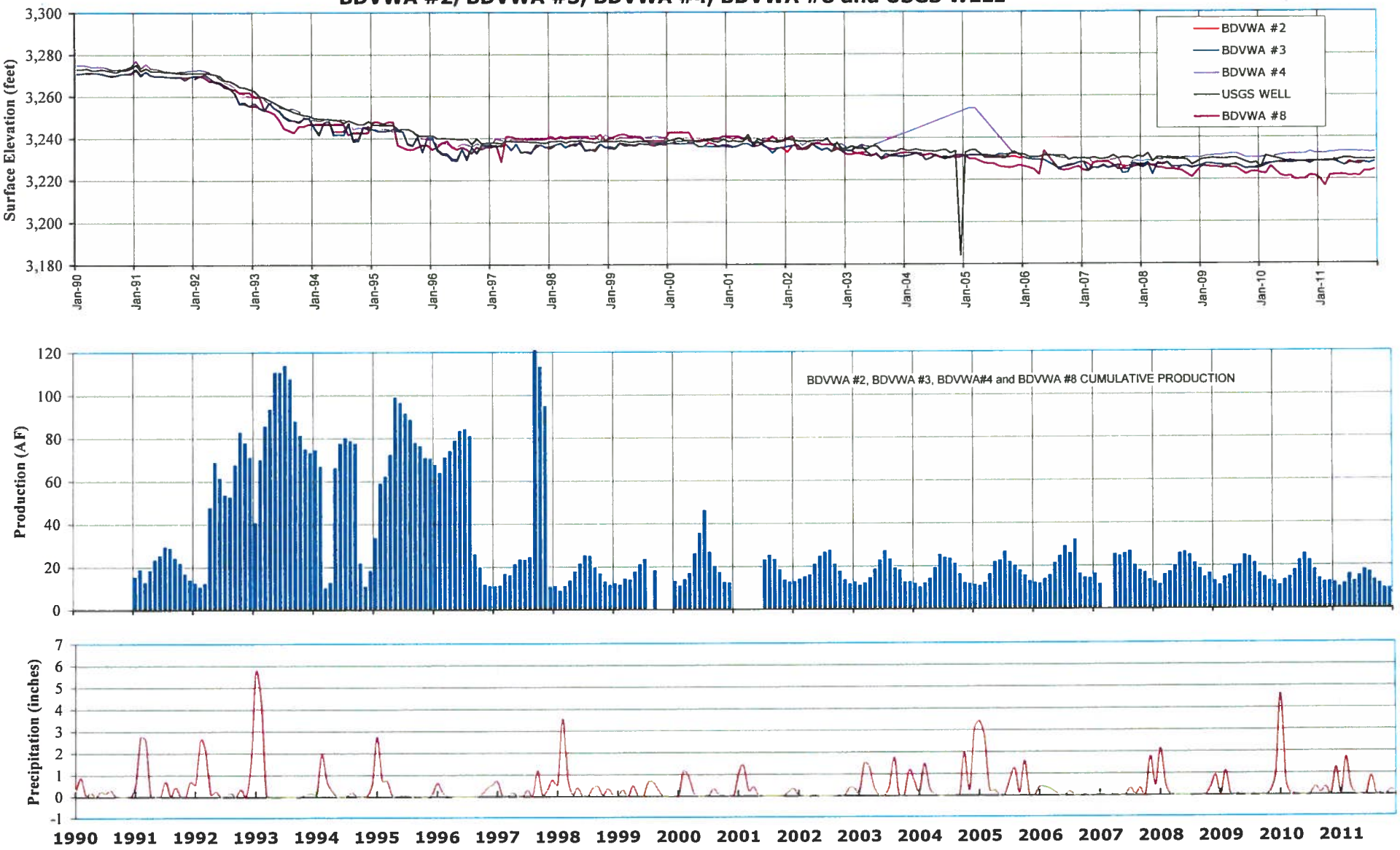


Figure 2

Figure 3
Groundwater Surface Elevations
Water Production Data
and Precipitation
CSA 70 W-1#1, CSA 70 W-1#2

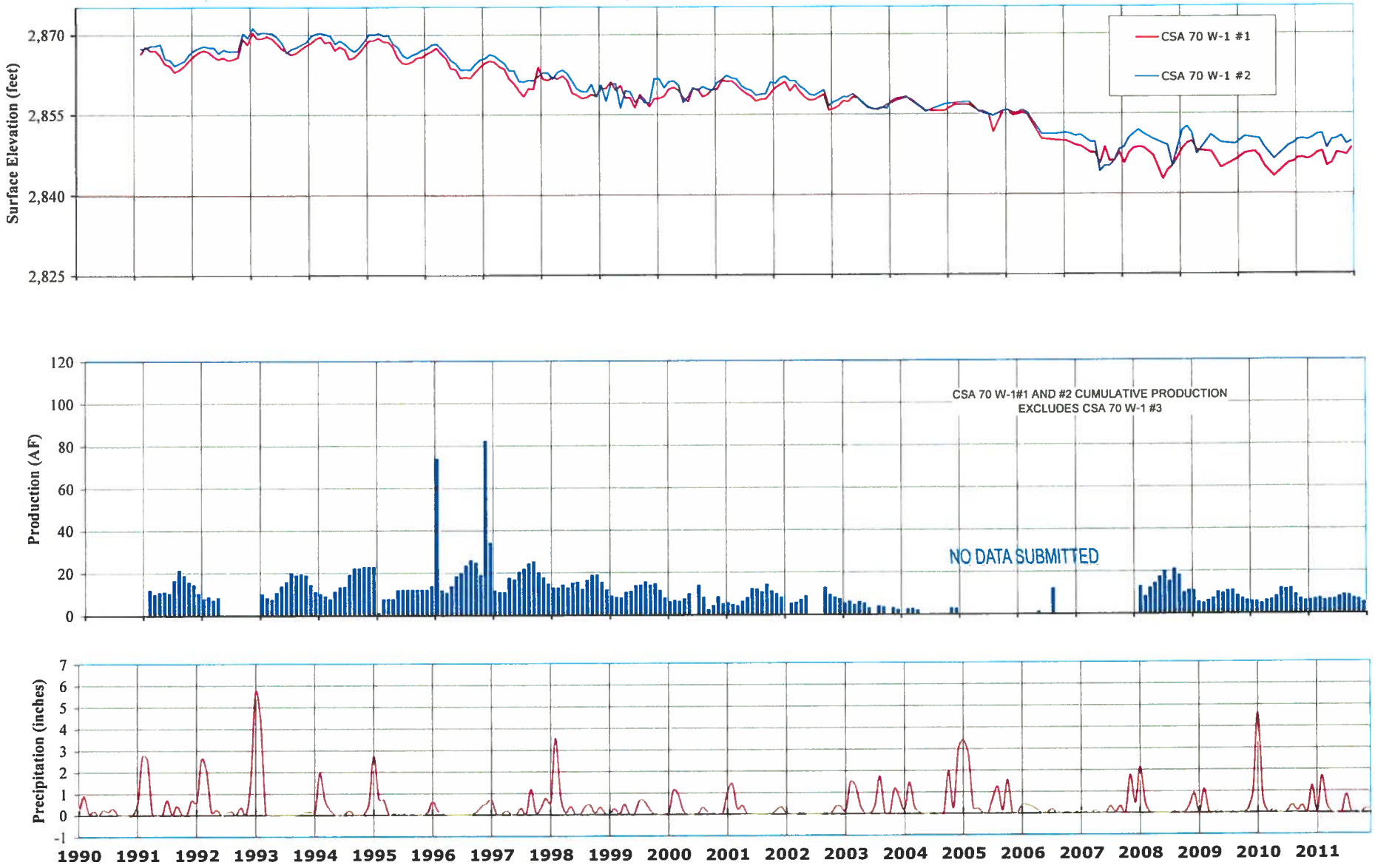


Figure 3

Figure 4
Groundwater Surface Elevations
Water Production Data
and Precipitation
BDVWA #6, BDVWA #7, BDVWA #9

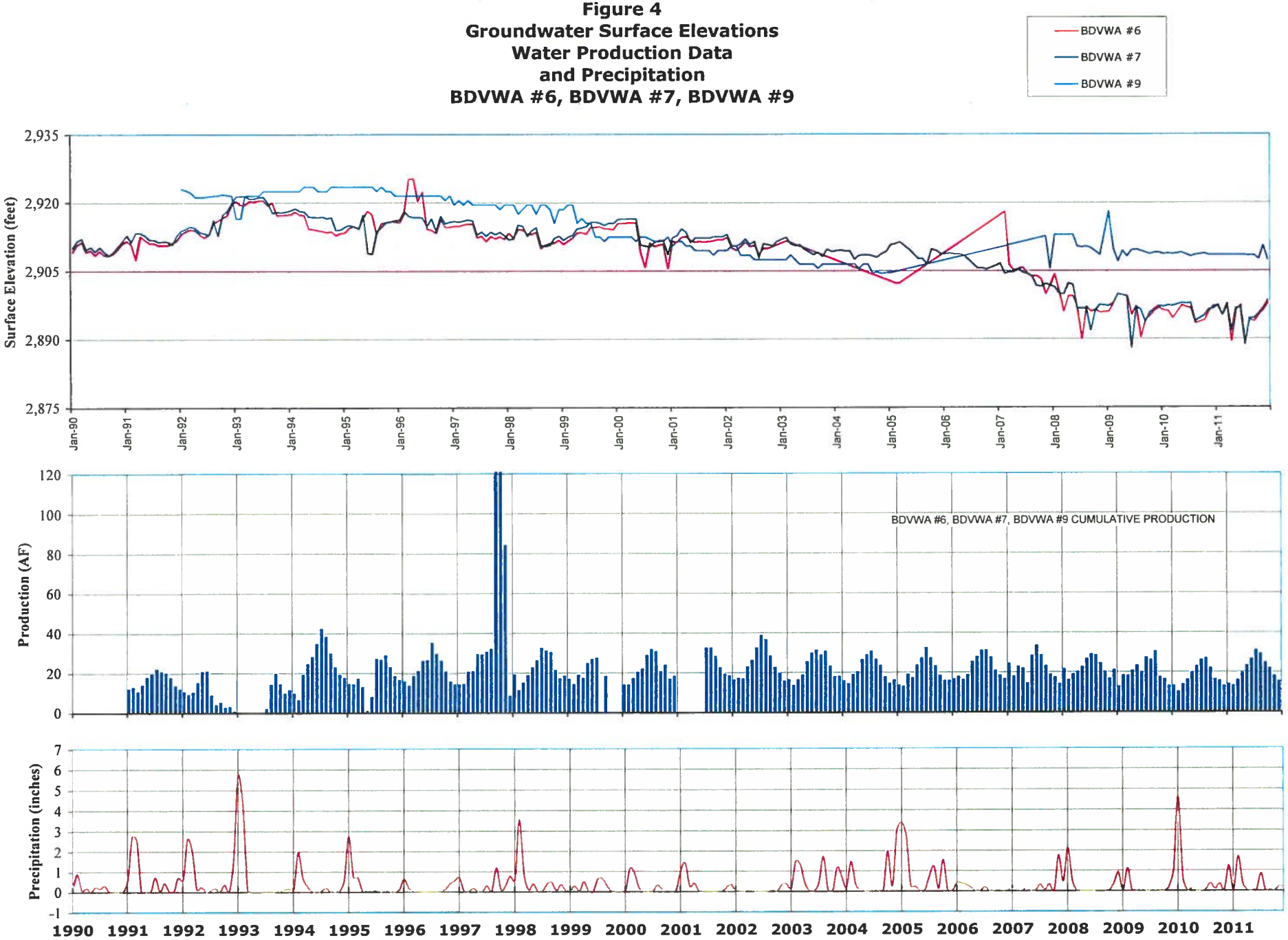
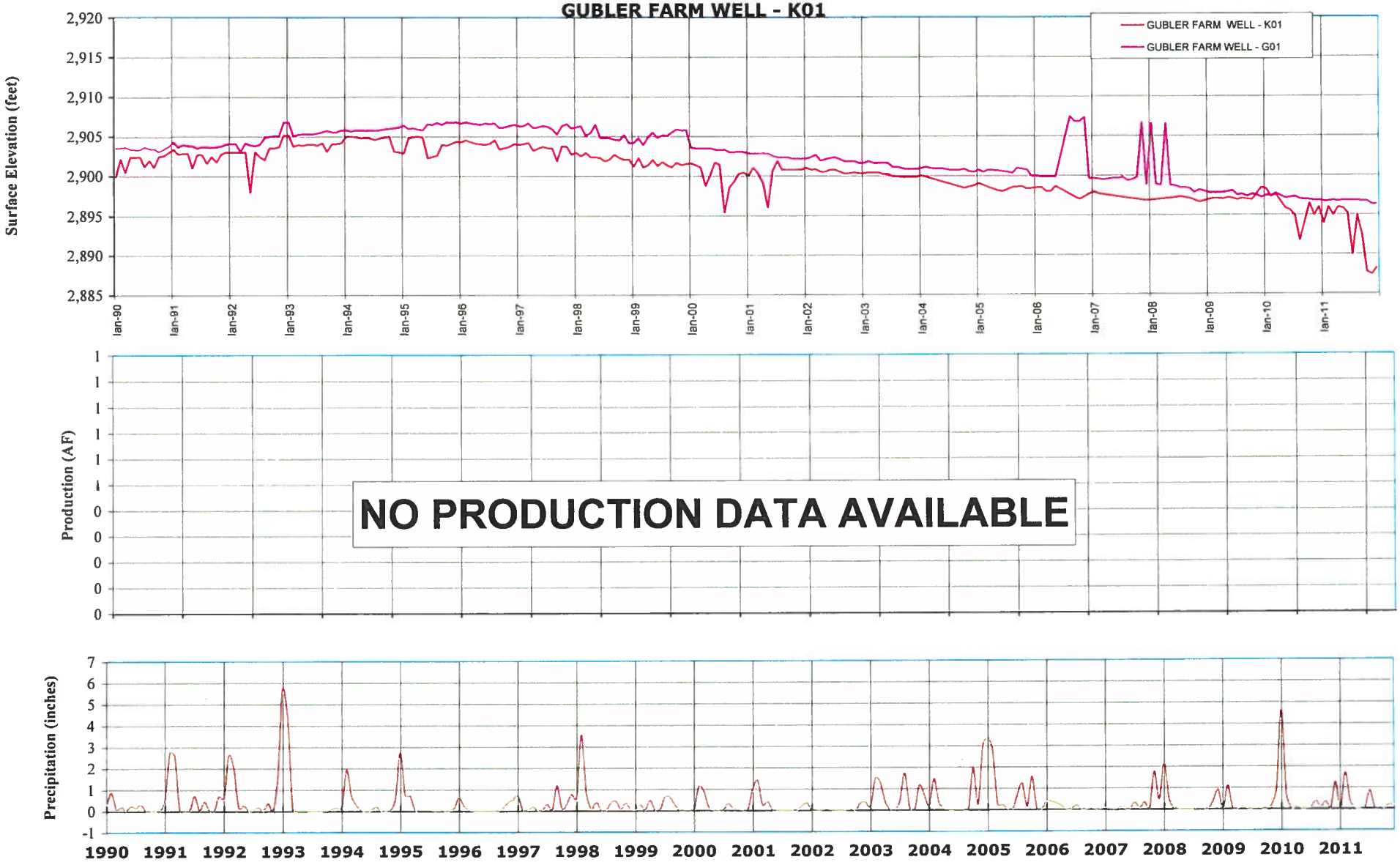


Figure 4

Figure 5
Groundwater Surface Elevations
Water Production Data
and Precipitation
GUBLER FARM WELL - G01
GUBLER FARM WELL - K01



APPENDIX A
TABLE

AMES VALLEY WATER BASIN MONITORING PROGRAM
SUMMARY OF AMES BASIN WATER PRODUCTION

JANUARY 2011 - DECEMBER 2011

APPENDIX A
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY WATER PRODUCTION DATA
(ALL AMOUNTS IN ACRE-FEET)

WELL DESIGNATION: / LOCATION:	HDWD #24 02N/05E-24H	BDVWA #2 02N/05E-27J01	BDVWA #3 02N/05E-27J02	BDVWA #4 02N/05E-27R	BDVWA #6 02N/05E-12B01	BDVWA #7 02N/05E-12B02	BDVWA #8 02N/05E-22J01S	BDVWA #9 02N/05E-12C025	HDWD #10 01N/06E-17A	CSA 70 W-1 #1 02N/06E-1801	CSA 70 W-1 #2 02N/06E-1802	CSA 70 W-1 #3 [1] 02N/06E-07Q	TOTALS
Jan-91	0.00	2.49	7.48	5.11	6.86	4.96	0.00	0.00	2.13	6.07	5.60	NA	40.70
Feb-91	0.00	1.65	6.19	10.73	6.64	6.03	0.00	0.00	1.66	5.23	4.40	NA	42.53
01-Mar	0.00	5.21	3.03	4.33	5.53	4.83	0.00	0.00	1.39	5.50	5.00	NA	34.82
Apr-91	0.00	5.02	9.15	3.99	6.44	7.31	0.00	0.00	0.00	5.50	5.20	NA	42.61
May-91	0.00	5.31	10.56	7.11	8.14	9.50	0.00	0.00	2.16	5.50	4.60	NA	52.88
Jun-91	0.00	3.08	11.93	10.12	8.79	10.46	0.00	0.00	2.25	8.60	7.60	NA	62.83
Jul-91	0.00	4.17	12.02	13.01	10.90	10.92	0.00	0.00	2.41	11.00	10.04	NA	74.47
Aug-91	0.00	8.90	6.90	12.80	10.60	10.10	0.00	0.00	2.50	9.81	8.78	NA	70.39
Sep-91	0.00	7.10	6.71	10.16	8.97	10.92	0.00	0.00	4.04	5.67	9.83	NA	63.40
Oct-91	0.00	5.90	7.60	8.00	8.20	9.50	0.00	0.00	2.80	6.96	7.31	NA	56.27
Nov-91	0.00	9.78	4.55	2.27	9.09	4.50	0.00	0.00	2.79	5.62	4.43	NA	43.03
Dec-91	0.00	6.98	6.66	0.12	5.92	5.94	0.00	0.00	2.82	3.91	3.64	NA	35.99
TOTAL =	0.00	65.59	92.78	87.75	96.08	94.97	0.00	0.00	26.95	79.37	76.43		619.92
Jan-92	0.00	7.40	4.75	0.11	5.67	4.64	0.00	0.00	2.75	4.44	3.95	NA	33.71
Feb-92	0.00	4.85	5.45	0.11	3.84	5.09	0.00	0.00	0.00	3.68	3.20	NA	26.22
01-Mar	0.00	3.39	3.89	4.77	4.48	5.72	0.00	0.00	0.00	4.13	3.95	NA	30.33
Apr-92	0.00	3.74	18.22	25.50	8.21	6.73	0.00	0.00	0.37	0.00	0.00	NA	62.77
May-92	0.00	29.16	11.69	27.64	10.39	10.12	0.00	0.00	2.05	0.00	0.00	NA	91.05
Jun-92	0.00	14.58	16.31	30.22	11.13	9.69	0.00	0.00	3.17	0.00	0.00	NA	85.10
Jul-92	0.00	33.15	1.20	18.97	4.02	4.68	0.00	0.00	1.96	0.00	0.00	NA	63.98
Aug-92	0.00	17.46	4.73	30.11	1.41	2.43	0.00	0.00	0.00	0.00	0.00	NA	56.14
Sep-92	0.00	0.02	39.40	27.90	3.91	1.15	0.00	0.00	3.14	0.00	0.00	NA	75.52
Oct-92	0.00	0.00	50.69	31.87	0.84	1.76	0.00	0.00	4.38	0.00	0.00	NA	89.54
Nov-92	0.00	0.00	43.00	34.65	1.39	1.43	0.00	0.00	0.69	0.00	0.00	NA	81.16
Dec-92	0.00	0.18	42.82	22.37	0.51	0.00	5.51	0.00	0.38	5.09	4.68	NA	81.54
TOTAL =	0.00	113.93	242.15	254.22	55.80	53.44	5.51	0.00	18.89	17.34	15.78		777.06
Jan-93	0.00	0.16	21.72	0.05	0.00	0.00	18.42	0.00	0.00	4.47	3.62	NA	48.44
Feb-93	0.00	21.37	10.78	0.00	0.00	0.00	37.52	0.00	0.49	3.76	3.37	NA	77.29
01-Mar	0.00	8.83	26.22	2.42	0.00	0.00	47.96	0.00	1.49	5.53	4.90	NA	97.35
Apr-93	0.00	7.89	3.00	22.70	0.00	0.00	59.68	0.00	0.00	7.05	6.35	NA	106.67
May-93	0.00	10.87	13.04	22.07	0.00	0.00	64.52	0.00	2.10	8.33	7.25	NA	128.18
Jun-93	0.00	13.85	11.11	19.06	0.00	0.00	66.39	0.00	2.40	10.48	9.16	NA	132.45
Jul-93	0.00	15.88	11.08	17.75	1.16	0.58	68.85	0.00	0.00	10.12	8.56	NA	133.98
Aug-93	0.94	11.67	9.26	15.80	8.41	5.62	70.64	0.00	2.86	10.20	8.99	NA	144.39
Sep-93	15.47	18.17	13.70	10.56	9.75	9.52	45.24	0.00	2.15	9.91	8.75	NA	143.22
Oct-93	34.63	10.03	15.34	21.15	6.25	7.92	34.45	0.01	1.16	7.45	6.76	NA	145.15
Nov-93	31.53	3.25	18.77	20.65	6.09	3.31	32.01	0.11	1.66	5.81	4.94	NA	128.13
Dec-93	36.40	0.00	16.26	28.89	3.82	7.38	27.83	0.03	1.93	5.21	4.57	NA	132.32
TOTAL =	118.97	121.97	170.28	181.10	35.48	34.33	573.51	0.15	16.24	88.32	77.22		1,417.57
Jan-94	47.40	0.00	20.18	25.27	3.59	5.87	28.70	0.08	2.40	4.71	3.96	NA	142.16
Feb-94	45.44	0.00	27.23	14.94	2.09	4.11	24.33	0.00	1.25	3.90	3.43	NA	126.72
01-Mar	44.13	0.00	0.10	0.00	9.61	9.40	9.71	0.03	0.97	5.87	5.09	NA	84.91
Apr-94	71.83	0.13	0.11	10.40	15.49	8.86	1.79	0.00	0.78	6.87	6.24	NA	122.50
May-94	47.70	0.00	27.20	10.11	7.37	8.15	28.45	12.37	0.00	6.64	6.57	NA	154.56
Jun-94	32.09	13.38	2.58	11.70	23.65	9.53	49.61	1.28	2.83	9.94	8.95	NA	165.54
Jul-94	24.00	9.27	18.06	29.44	21.32	20.74	23.14	0.00	3.20	11.57	10.42	NA	171.16
Aug-94	24.34	8.98	9.21	4.58	23.14	14.99	55.77	0.00	2.38	11.65	10.21	NA	165.25
Sep-94	24.30	19.78	21.76	35.79	16.36	13.26	0.00	0.00	2.30	11.80	10.70	NA	156.05
Oct-94	24.30	8.41	5.67	7.32	14.50	8.23	0.00	0.00	2.30	11.80	10.70	NA	93.23
Nov-94	67.79	0.35	2.91	7.37	12.23	6.80	0.02	0.00	2.31	11.80	10.70	NA	122.28
Dec-94	72.14	1.04	8.67	7.00	9.71	7.64	1.12	0.00	3.10	0.46	0.40	NA	111.28
TOTAL =	525.46	61.34	143.68	163.92	159.06	117.58	222.64	13.76	23.82	97.01	87.37		1,615.64

1. CSA 70 W-1 #3 did not enter the program until January 1996.
2. N/A = Data not available.

APPENDIX A
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY WATER PRODUCTION DATA
(ALL AMOUNTS IN ACRE-FEET)

WELL DESIGNATION: / LOCATION:	HDWD #24 02N/05E-24H	BDVWA #2 02N/05E-27J01	BDVWA #3 02N/05E-27J02	BDVWA #4 02N/05E-27R	BDVWA #6 02N/05E-12B01	BDVWA #7 02N/05E-12B02	BDVWA #8 02N/05E-22J01S	BDVWA #9 02N/05E-12C025	HDWD #10 01N/06E-17A	CSA 70 W-1 #1 02N/06E-1801	CSA 70 W-1 #2 02N/06E-1802	CSA 70 W-1 #3 [1] 02N/06E-07Q	TOTALS
Jan-95	69.50	12.40	5.40	15.50	7.00	7.30	0.01	0.00	0.77	3.86	3.42	NA	125.16
Feb-95	26.30	10.00	21.10	17.80	8.00	6.20	9.70	0.00	0.80	3.20	4.20	NA	107.30
01-Mar	26.30	3.30	6.50	0.10	9.10	7.90	51.90	0.00	0.80	3.20	4.20	NA	113.30
Apr-95	26.30	2.20	4.90	8.10	6.00	6.70	56.80	0.00	0.80	5.53	6.16	NA	123.49
May-95	37.80	9.70	6.10	15.00	0.50	0.00	67.90	0.08	0.60	5.50	6.20	NA	149.38
Jun-95	37.80	8.90	15.20	5.80	7.70	0.00	66.30	0.00	0.60	5.50	6.20	NA	154.00
Jul-95	37.80	3.50	18.30	14.10	11.10	11.30	55.40	4.50	0.60	5.50	6.20	NA	168.30
Aug-95	40.60	16.40	10.90	9.50	11.30	13.40	51.60	1.70	2.40	5.50	6.20	NA	169.50
Sep-95	27.90	11.60	6.50	16.70	11.70	3.20	42.80	13.80	2.60	5.50	6.20	NA	148.50
Oct-95	59.09	3.40	20.10	6.13	9.60	8.40	46.40	4.70	1.70	5.50	6.20	NA	171.22
Nov-95	49.50	0.00	26.20	30.40	6.90	5.30	13.90	5.90	1.60	7.11	6.36	NA	153.17
Dec-95	5.80	0.00	20.20	14.10	12.40	3.90	35.90	0.01	0.57	67.10	6.60	NA	166.58
TOTAL =	444.69	81.40	161.40	153.23	101.30	73.60	498.61	30.69	13.84	123.00	68.14		1,749.90
Jan-96	62.80	0.00	22.30	32.00	10.40	0.00	13.10	5.30	0.02	6.20	5.40	11.60	169.12
Feb-96	52.90	0.00	30.90	20.30	6.70	0.00	12.30	6.80	0.26	5.50	4.90	10.40	150.96
Mar-96	70.06	0.00	34.20	29.40	6.80	8.80	7.20	2.70	0.31	6.99	6.60	13.59	186.65
Apr-96	89.08	16.73	8.43	22.36	9.05	10.06	26.12	1.77	0.25	9.40	8.80	18.20	220.25
May-96	96.16	11.77	20.45	0.02	8.10	9.11	46.39	8.68	0.00	9.90	9.50	19.40	239.48
Jun-96	90.66	16.96	21.60	24.92	8.81	17.46	19.53	0.02	1.03	12.00	11.30	23.30	247.59
Jul-96	81.92	23.57	10.51	18.41	0.00	10.31	31.41	24.74	2.05	13.20	12.40	25.60	254.12
Aug-96	78.41	9.30	12.37	13.78	10.62	4.86	45.27	14.02	1.91	13.50	11.10	24.60	239.74
Sep-96	78.41	6.22	4.22	7.56	9.24	2.07	7.59	14.75	1.91	10.10	8.80	18.90	169.77
Oct-96	8.20	2.44	4.80	7.92	10.26	0.00	4.12	10.49	8.67	72.72	9.50	17.70	156.82
Nov-96	5.20	2.80	2.87	3.08	3.74	4.33	2.72	7.52	0.72	27.74	6.20	11.40	78.32
Dec-96	0.00	1.87	2.31	2.35	5.58	4.94	4.28	3.64	0.00	5.90	5.40	11.30	47.57
TOTAL =	713.80	91.66	174.96	182.10	89.30	71.94	220.03	100.43	17.13	193.15	99.90	205.99	2,160.39
Jan-97	42.66	2.70	2.70	2.61	4.74	4.62	2.70	4.50	0.00	5.50	5.00	NA	77.73
Feb-97	31.07	2.84	2.59	2.84	5.00	5.01	2.72	4.12	0.14	5.50	5.00	NA	66.83
Mar-97	46.12	4.09	3.71	5.65	6.49	7.71	3.05	6.15	0.00	9.00	8.30	NA	100.27
Apr-97	62.15	3.02	5.04	3.34	8.49	5.88	4.40	6.17	0.01	8.30	8.20	NA	115.00
May-97	93.66	5.49	4.99	4.88	8.63	8.70	5.58	11.91	0.00	10.50	9.50	NA	163.84
Jun-97	83.93	9.03	5.04	4.53	11.03	9.81	4.57	8.20	0.00	11.10	10.40	NA	157.64
Jul-97	45.55	6.29	4.60	5.64	10.53	7.42	6.50	12.36	0.00	14.00	10.00	NA	122.89
Aug-97	49.92	6.33	5.74	7.64	13.21	15.27	4.54	3.33	0.00	13.00	12.00	NA	130.98
Sep-97	43.00	32.56	32.45	29.17	68.71	116.34	31.39	0.10	0.00	10.80	9.00	NA	373.52
Oct-97	68.30	30.65	27.81	23.99	0.00	81.18	30.57	67.28	0.00	9.00	8.50	NA	347.28
Nov-97	56.10	19.78	27.86	25.23	39.54	38.27	21.64	6.36	0.00	7.50	7.00	NA	249.28
Dec-97	69.50	2.64	2.63	2.47	3.26	5.06	2.58	0.00	0.00	6.50	6.10	NA	100.74
TOTAL =	691.96	125.42	125.16	117.99	179.63	305.27	120.24	130.48	0.15	110.70	99.00	NA	2,006.00
Jan-98	71.10	2.97	2.63	2.37	11.31	7.75	2.80	0.00	0.00	6.50	6.10	0.00	113.53
Feb-98	58.10	2.18	2.96	1.43	5.17	0.10	2.00	5.80	0.90	7.30	6.80	0.00	92.74
Mar-98	63.50	2.86	1.88	2.48	8.47	0.60	3.54	5.73	1.80	6.60	6.10	0.00	103.56
Apr-98	70.70	1.24	3.37	2.79	10.75	0.08	5.89	7.78	1.70	8.50	6.50	0.00	119.30
May-98	69.00	4.82	5.80	2.90	13.65	0.01	3.97	8.82	0.00	8.00	7.40	2.20	126.57
Jun-98	83.00	5.95	5.36	5.48	10.58	0.00	4.49	15.37	1.90	6.30	5.70	9.60	153.73
Jul-98	88.70	0.90	0.00	5.49	22.45	0.02	18.62	9.80	0.00	8.40	7.70	12.60	174.68
Aug-98	80.00	6.92	5.15	5.01	19.58	11.35	7.79	0.00	0.00	9.80	8.70	14.90	169.20
Sep-98	73.10	5.85	4.88	2.81	11.06	11.59	5.70	7.56	0.00	9.80	8.90	15.80	157.05
Oct-98	70.80	3.89	4.36	3.41	10.61	0.00	4.90	10.54	0.00	8.00	7.20	9.80	133.51
Nov-98	57.60	2.75	3.22	2.83	7.90	0.00	4.05	8.92	0.00	6.20	5.50	10.00	108.97
Dec-98	58.40	2.15	2.12	5.17	11.26	0.00	1.78	7.05	0.00	4.80	3.90	9.90	106.53
TOTAL =	844.00	42.48	41.73	42.17	142.79	31.50	65.53	87.37	6.30	90.20	80.50	84.80	1,559.37

1. CSA 70 W-1 #3 did not enter the program until January 1996.
2. N/A = Data not available.

APPENDIX A
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY WATER PRODUCTION DATA
(ALL AMOUNTS IN ACRE-FEET)

WELL DESIGNATION: / LOCATION:	HDWD #24 02N/05E-24H	BDVWA #2 02N/05E-27J01	BDVWA #3 02N/05E-27J02	BDVWA #4 02N/05E-27R	BDVWA #6 02N/05E-12B01	BDVWA #7 02N/05E-12B02	BDVWA #8 02N/05E-22J01S	BDVWA #9 02N/05E-12C025	HDWD #10 01N/06E-17A	CSA 70 W-1 #1 02N/06E-1801	CSA 70 W-1 #2 02N/06E-1802	CSA 70 W-1 #3 02N/06E-07Q	TOTALS
Jan-99	58.30	3.20	2.76	2.34	6.77	0.00	3.75	9.85	0.00	3.60	4.50	8.50	103.57
Feb-99	59.40	2.25	2.78	3.37	6.76	0.00	2.92	7.22	0.00	4.30	3.60	6.40	99.00
Mar-99	62.20	3.15	2.99	2.45	7.35	0.00	5.64	11.30	0.00	5.60	4.80	8.80	114.28
Apr-99	69.70	3.34	2.44	3.49	0.00	0.00	4.44	17.19	0.00	6.00	4.90	8.80	120.30
May-99	82.30	3.27	3.42	4.49	0.00	0.00	6.26	24.50	0.00	7.50	6.20	11.40	149.34
Jun-99	79.10	3.97	5.05	5.16	0.00	0.00	6.62	26.61	0.00	7.60	6.30	11.60	152.01
Jul-99	50.90	4.80	5.45	6.23	0.00	0.00	6.79	27.22	10.52	8.30	7.00	9.50	136.71
Aug-99	56.20	NA	NA	NA	NA	NA	NA	NA	0.34	7.60	6.30	11.60	82.04
Sep-99	68.00	4.29	3.54	0.00	0.00	0.00	10.18	18.04	0.00	7.80	6.70	10.20	128.75
Oct-99	78.70	NA	NA	NA	NA	NA	NA	NA	2.43	6.20	5.20	9.80	102.33
Nov-99	73.70	NA	NA	NA	NA	NA	NA	NA	2.70	4.20	3.50	6.70	90.80
Dec-99	65.90	NA	NA	NA	NA	NA	NA	NA	0.00	3.20	2.70	5.00	76.80
TOTAL =	804.40	28.27	28.43	27.53	20.88	0.00	46.60	141.93	15.99	71.90	61.70	108.30	1,355.93
Jan-00	26.40	0.00	0.00	12.97	0.00	0.00	0.00	13.75	2.50	3.70	2.80	5.70	67.82
Feb-00	0.00	0.00	0.00	10.77	0.00	0.00	0.00	13.77	2.40	3.30	2.80	5.00	38.04
Mar-00	22.40	0.03	0.00	13.32	0.00	0.00	0.44	16.94	2.40	3.80	3.40	5.80	68.53
Apr-00	30.60	0.00	0.00	15.80	0.00	0.00	0.77	20.19	2.30	5.10	4.60	7.75	87.11
May-00	0.00	0.00	0.00	18.51	2.66	0.00	7.37	19.15	4.40	NA	NA	NA	52.09
Jun-00	42.70	2.89	0.00	11.81	12.35	8.72	20.67	7.58	1.90	7.40	6.30	11.30	133.62
Jul-00	39.40	8.79	0.00	15.69	20.85	0.00	21.47	10.78	2.40	4.30	3.67	19.40	146.75
Aug-00	83.60	7.22	0.02	5.74	4.80	8.58	13.57	17.18	2.20	1.18	0.98	23.00	168.07
Sep-00	68.50	8.19	0.00	4.34	0.00	4.85	7.36	15.61	2.50	2.18	1.81	16.10	131.44
Oct-00	67.30	8.44	0.00	3.14	8.47	0.00	5.46	15.22	2.70	4.70	3.50	7.20	126.13
Nov-00	64.30	8.08	0.00	1.61	13.46	0.00	2.80	3.15	2.60	4.20	0.77	6.50	107.47
Dec-00	62.00	8.09	0.20	1.44	2.46	5.76	2.47	9.83	2.70	4.10	1.20	6.30	106.55
TOTAL =	507.20	51.73	0.22	115.14	65.05	27.91	82.38	163.15	31.00	43.96	31.83	114.05	1,233.62
Jan-01	58.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.60	3.75	0.70	5.60	70.95
Feb-01	54.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.50	3.33	0.64	5.00	65.57
Mar-01	42.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.60	3.80	2.30	5.60	57.10
Apr-01	24.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.80	4.10	3.60	6.30	41.00
May-01	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.40	6.50	5.50	9.50	25.90
Jun-01	60.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.70	6.30	5.40	9.70	86.90
Jul-01	91.70	4.18	0.00	6.62	0.00	6.32	12.00	26.00	4.80	5.70	4.80	8.80	170.92
Aug-01	94.30	4.40	0.00	6.50	6.30	0.00	14.10	26.10	6.20	7.60	6.50	11.80	183.80
Sep-01	86.50	12.30	0.00	10.80	0.00	6.70	0.00	21.40	6.30	5.90	4.90	9.00	163.80
Oct-01	91.40	12.10	0.00	6.10	4.40	0.00	0.00	18.00	6.50	5.20	4.40	8.00	156.10
Nov-01	73.50	10.30	0.00	3.10	0.00	4.50	0.00	14.60	4.20	4.30	3.60	6.70	124.80
Dec-01	60.40	9.11	0.00	3.56	4.18	0.00	0.00	14.08	3.00	N/A	N/A	N/A	94.33
TOTAL =	738.00	52.39	0.00	36.68	14.88	17.52	26.10	120.18	50.60	56.48	42.34	86.00	1,241.17
Jan-02	68.00	0.00	7.06	5.54	8.19	0.38	0.00	7.64	2.30	2.70	2.30	4.20	108.31
Feb-02	68.00	0.00	3.90	9.90	17.00	0.00	0.00	0.00	2.10	2.90	2.50	4.50	110.80
Mar-02	74.60	4.10	0.00	10.80	0.00	11.70	0.00	4.90	2.50	3.60	3.20	5.60	121.00
Apr-02	77.00	2.70	4.50	8.60	1.60	0.00	0.00	21.10	3.10	4.50	3.90	7.00	134.00
May-02	76.90	4.00	0.93	12.50	4.40	0.00	3.20	21.60	4.30	0.00	0.00	0.00	127.83
Jun-02	57.70	0.00	5.00	12.40	7.40	3.80	7.10	21.10	4.20	0.00	0.00	0.00	118.70
Jul-02	28.80	4.90	5.50	6.80	1.50	0.30	9.10	36.90	4.20	0.00	0.00	0.00	98.00
Aug-02	30.50	7.73	6.74	0.00	0.33	12.00	12.68	24.09	4.30	6.70	5.80	12.00	122.87
Sep-02	47.90	4.99	5.37	0.00	2.35	7.56	10.36	18.26	1.50	4.90	4.20	7.70	115.09
Oct-02	32.40	4.30	4.60	0.00	2.80	3.90	8.50	15.80	0.00	4.20	3.70	6.90	87.10
Nov-02	23.00	2.40	0.00	0.90	2.60	0.00	10.10	16.70	0.00	3.90	3.30	6.30	69.20
Dec-02	12.40	0.00	0.00	2.70	0.00	0.00	8.80	15.50	0.00	2.70	2.40	4.40	48.90
TOTAL =	597.20	35.12	43.60	70.14	48.17	39.64	69.84	203.59	28.50	36.10	31.30	58.60	1,261.80

1. N/A = Data not available.

APPENDIX A
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY WATER PRODUCTION DATA
(ALL AMOUNTS IN ACRE-FEET)

WELL DESIGNATION: / LOCATION:	HDWD #24 02N/05E-24H	BDVWA #2 02N/05E-27J01	BDVWA #3 02N/05E-27J02	BDVWA #4 02N/05E-27R	BDVWA #6 02N/05E-12B01	BDVWA #7 02N/05E-12B02	BDVWA #8 02N/05E-22J01S	BDVWA #9 02N/05E-12C025	HDWD #10 01N/06E-17A	CSA 70 W-1 #1 02N/06E-1801	CSA 70 W-1 #2 02N/06E-1802	CSA 70 W-1 #3 [1] 02N/06E-07Q	TOTALS
Jan-03	9.70	0.00	0.00	4.60	0.00	0.00	7.90	16.20	0.00	3.30	2.80	4.60	49.10
Feb-03	1.00	0.00	0.00	4.20	0.00	0.00	6.70	13.30	0.00	2.50	2.00	2.90	32.60
Mar-03	42.50	3.80	2.10	0.00	6.00	10.00	6.00	0.00	0.00	3.10	2.64	3.33	79.47
Apr-03	53.90	0.00	3.70	0.00	0.00	4.70	10.70	13.80	0.00	2.80	2.40	5.50	97.50
May-03	61.90	0.00	6.20	0.00	6.20	0.00	12.10	19.00	0.00	1.60	1.40	9.00	117.40
Jun-03	75.90	10.10	2.20	0.00	0.00	11.10	10.30	18.50	0.00	NA	NA	NA	128.10
Jul-03	78.30	0.00	13.70	0.00	11.80	0.00	13.30	19.30	0.00	2.00	1.80	19.20	159.40
Aug-03	76.30	12.80	0.00	0.00	11.10	0.00	10.20	17.50	0.00	1.80	1.56	16.50	147.76
Sep-03	81.70	0.83	4.39	8.01	6.44	5.32	5.69	18.65	0.00	NA	NA	NA	131.03
Oct-03	50.50	2.29	4.43	11.35	2.75	7.73	0.00	12.56	0.00	1.50	1.40	13.60	108.11
Nov-03	28.50	6.50	0.00	5.80	5.50	0.00	0.00	12.10	0.00	1.10	0.91	9.40	69.81
Dec-03	13.70	0.00	7.40	5.00	0.00	5.80	0.00	12.00	0.00	0.00	0.00	0.00	43.90
TOTAL =	573.90	36.32	44.12	38.96	49.79	44.65	82.89	172.91	0.00	19.70	16.91	84.03	1,164.18
Jan-04	19.20	3.30	3.00	5.40	0.00	6.70	0.00	8.80	0.00	1.20	1.00	10.10	58.70
Feb-04	28.90	2.60	0.00	3.90	0.00	6.30	3.40	7.80	0.00	1.30	1.10	11.20	66.50
Mar-04	89.80	0.00	2.90	8.90	0.00	6.50	0.00	12.30	0.00	0.90	0.80	8.20	130.30
Apr-04	74.20	0.00	1.50	2.00	0.00	6.40	10.40	13.70	0.00	NA	NA	NA	108.20
May-04	80.00	0.00	7.20	9.30	0.00	12.90	2.40	13.30	0.00	NA	NA	NA	125.10
Jun-04	77.80	9.90	2.60	11.50	7.40	0.00	1.10	21.20	0.00	NA	NA	NA	131.50
Jul-04	89.20	5.40	0.00	9.50	7.80	0.00	8.80	22.60	0.00	NA	NA	NA	143.30
Aug-04	89.10	5.60	1.40	8.70	7.60	0.00	7.60	18.70	0.00	NA	NA	NA	138.70
Sep-04	81.70	5.74	0.00	0.00	7.46	0.00	15.10	15.71	0.00	NA	NA	NA	125.71
Oct-04	70.90	0.19	4.49	6.87	1.51	2.97	4.37	12.96	0.00	1.40	1.20	12.40	119.26
Nov-04	58.20	0.00	0.00	3.29	0.00	0.00	8.59	14.26	0.00	1.30	1.20	11.00	97.84
Dec-04	55.80	0.22	0.03	9.33	0.00	0.00	1.95	15.91	0.00	NA	NA	NA	83.24
TOTAL =	814.80	32.95	23.12	78.69	31.77	41.77	63.71	177.24	0.00	6.10	5.30	52.90	1,328.35
Jan-05	74.40	0.78	0.00	3.27	0.00	0.00	6.94	13.36	0.00	NA	NA	NA	98.75
Feb-05	67.30	0.78	0.03	0.00	0.00	0.00	9.68	12.70	0.00	NA	NA	NA	90.49
Mar-05	NA	0.00	3.00	8.96	0.00	6.58	0.00	12.38	0.00	NA	NA	NA	30.92
Apr-05	27.20	0.04	1.67	1.30	3.38	0.23	12.89	13.40	0.00	NA	NA	NA	60.11
May-05	NA	2.02	1.64	2.38	0.85	3.59	15.55	18.89	0.00	NA	NA	NA	44.92
Jun-05	32.60	1.79	2.00	5.20	6.00	3.23	13.34	17.64	0.00	NA	NA	NA	81.80
Jul-05	40.00	0.98	3.47	6.53	3.17	11.77	15.39	17.25	0.00	NA	NA	NA	98.56
Aug-05	18.40	1.66	0.48	6.00	8.71	2.27	13.46	16.10	0.00	NA	NA	NA	67.08
Sep-05	28.60	1.78	0.00	4.51	4.38	3.69	13.45	14.83	0.00	NA	NA	NA	71.24
Oct-05	20.40	1.22	0.80	4.36	4.61	1.33	11.18	12.25	0.00	NA	NA	NA	56.15
Nov-05	18.20	0.00	3.82	5.77	2.08	2.20	5.69	11.27	0.00	NA	NA	NA	49.03
Dec-05	29.00	0.58	1.37	0.71	3.29	0.00	10.06	12.41	0.00	NA	NA	NA	57.42
TOTAL =	356.10	11.63	18.28	48.99	36.47	34.89	127.63	172.48	0.00	0.00	0.00	190.70	997.17
Jan-06	13.50	0.96	0.43	3.20	0.67	2.17	7.23	13.52	0.00	NA	NA	NA	41.68
Feb-06	13.21	1.24	0.30	1.89	0.93	2.50	8.10	14.18	0.00	NA	NA	NA	42.35
Mar-06	15.20	0.25	0.79	2.04	0.08	4.54	10.54	11.41	0.00	NA	NA	NA	44.85
Apr-06	7.90	1.98	0.05	3.83	0.00	3.85	9.60	14.63	0.00	1.20	1.00	10.50	54.54
May-06	N/A	1.13	1.42	5.22	0.00	7.17	13.27	17.93	0.00	NA	NA	NA	46.14
Jun-06	N/A	3.11	5.91	1.71	0.00	10.35	13.69	17.29	0.00	NA	NA	NA	52.06
Jul-06	3.80	14.05	1.80	3.21	0.00	14.12	9.80	16.69	0.00	6.30	5.60	10.20	85.57
Aug-06	62.90	5.74	9.84	3.26	0.00	12.04	6.90	18.93	0.00	NA	NA	NA	119.61
Sep-06	70.40	4.49	8.02	13.01	0.00	12.66	6.46	14.68	0.00	NA	NA	NA	129.72
Oct-06	71.90	3.67	5.46	1.88	0.00	9.98	5.06	10.75	0.00	NA	NA	NA	108.70
Nov-06	19.90	6.54	1.00	1.43	0.00	6.99	5.31	11.32	0.00	NA	NA	NA	52.49
Dec-06	36.30	3.65	2.41	1.77	0.00	5.50	6.12	10.95	0.00	NA	NA	NA	66.70
TOTAL =	315.01	46.81	37.43	42.45	1.68	91.87	102.08	172.28	0.00	7.50	6.60	20.70	844.41

1. Monthly Data for County Service Area 70 wells for Year 2005 not available; total Shown is Annual Total for all 3 wells.
2. N/A = Data not available.

APPENDIX A
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY WATER PRODUCTION DATA
(ALL AMOUNTS IN ACRE-FEET)

WELL DESIGNATION: / LOCATION:	HDWD #24 02N/05E-24H	BDVWA #2 02N/05E-27J01	BDVWA #3 02N/05E-27J02	BDVWA #4 02N/05E-27R	BDVWA #6 02N/05E-12B01	BDVWA #7 02N/05E-12B02	BDVWA #8 02N/05E-22J01S	BDVWA #9 02N/05E-12C025	HDWD #10 01N/06E-17A	CSA 70 W-1 #1 02N/06E-1801	CSA 70 W-1 #2 02N/06E-1802	CSA 70 W-1 #3 02N/06E-07Q	TOTALS
Jan-07	44.70	1.24	3.56	N/A	N/A	11.22	11.11	12.93	N/A	N/A	N/A	N/A	84.76
Feb-07	44.70	3.25	2.68	0.11	N/A	13.25	5.21	4.45	N/A	N/A	N/A	N/A	73.65
Mar-07	43.90	3.09	8.98	6.61	N/A	11.20	N/A	11.45	N/A	N/A	N/A	N/A	85.23
Apr-07	17.90	8.21	4.98	4.76	3.24	3.44	N/A	15.21	N/A	N/A	N/A	N/A	57.74
May-07	0.50	6.46	4.91	8.81	0.80	7.48	4.98	6.01	N/A	N/A	N/A	N/A	39.95
Jun-07	59.50	14.30	0.57	8.57	1.91	8.07	0.85	18.18	N/A	N/A	N/A	N/A	111.95
Jul-07	62.30	9.23	N/A	4.83	14.04	2.51	11.47	16.78	N/A	N/A	N/A	N/A	121.16
Aug-07	59.20	0.76	10.54	1.04	1.54	11.28	14.12	15.61	N/A	N/A	N/A	N/A	114.09
Sep-07	52.80	4.47	4.36	2.42	11.78	N/A	8.68	11.23	N/A	N/A	N/A	N/A	95.74
Oct-07	41.90	2.16	5.97	1.45	18.73	N/A	8.04	N/A	N/A	N/A	N/A	N/A	78.25
Nov-07	42.20	6.82	0.30	6.82	9.83	7.44	2.62	N/A	N/A	N/A	N/A	N/A	76.03
Dec-07	36.30	4.63	0.06	5.22	9.50	4.33	3.34	N/A	N/A	N/A	N/A	N/A	63.38
TOTAL =	505.90	64.62	46.91	50.64	71.37	80.22	70.42	111.85	0.00	0.00	0.00	0.00	1,001.93
Jan-08	6.52	4.20	0.26	7.26	10.64	10.65	0.36	0.00	N/A		12.69		52.58
Feb-08	21.28	4.13	1.41	3.80	14.30	1.66	1.68	0.00	N/A		8.08		56.34
Mar-08	52.66	2.78	0.03	2.27	12.78	6.10	10.45	0.00	N/A		11.98		99.05
Apr-08	55.84	1.70	3.99	0.00	0.02	19.96	11.15	0.00	N/A		14.12		106.78
May-08	62.19	0.06	6.78	0.00	22.31	0.05	12.56	0.00	N/A		17.15		121.10
Jun-08	77.33	8.34	0.88	0.00	0.00	24.65	16.27	1.86	N/A		19.65		148.98
Jul-08	78.00	3.70	9.42	0.00	17.92	6.46	12.99	4.43	N/A		15.11		148.03
Aug-08	65.25	4.94	8.14	0.00	13.88	10.36	11.71	4.09	N/A		20.84		139.21
Sep-08	59.93	10.63	1.73	0.00	15.20	6.11	8.59	2.99	N/A		18.03		123.21
Oct-08	52.18	7.40	3.54	0.00	13.17	4.74	7.47	2.11	N/A		9.79		100.40
Nov-08	47.72	2.73	6.82	0.00	5.39	9.97	4.73	1.20	N/A		10.80		89.36
Dec-08	21.91	3.82	5.98	0.00	20.86	0.00	6.28	0.00	N/A		10.51		69.36
TOTAL =	600.81	54.43	48.98	13.33	146.47	100.71	104.24	16.68	0.00		168.75		1,254.40
Jan-09	20.70	6.89	2.46	0.00	11.95	0.00	3.23	0.66	0.00	2.80	2.30	4.10	55.09
Feb-09	19.80	2.21	3.50	0.00	11.64	1.28	4.86	5.25	0.00	2.50	2.10	3.70	56.84
Mar-09	49.40	2.15	3.58	0.00	0.18	1.42	8.51	16.35	0.00	3.20	2.60	4.60	91.99
Apr-09	63.10	0.01	6.18	0.00	3.70	8.12	8.99	8.67	0.00	3.80	3.10	5.40	111.07
May-09	79.72	5.41	2.89	0.00	14.89	1.75	11.03	6.49	0.00	5.40	4.50	7.70	139.78
Jun-09	68.18	6.62	5.01	0.00	9.94	8.56	8.15	1.22	0.00	5.00	4.20	7.60	124.48
Jul-09	77.77	3.89	8.50	0.00	11.05	9.78	12.08	6.32	0.00	5.70	4.70	8.30	148.09
Aug-09	73.83	8.52	3.22	0.00	11.69	9.21	12.09	5.05	0.00	5.90	4.80	8.70	143.01
Sep-09	65.48	0.04	11.99	0.00	3.69	18.11	8.80	8.50	0.00	4.50	3.70	6.80	131.61
Oct-09	58.46	0.01	12.02	0.00	16.29	0.01	3.98	0.97	0.00	3.70	3.00	5.40	103.84
Nov-09	48.86	0.01	7.60	0.00	14.29	0.01	6.68	1.91	0.00	3.20	2.60	4.60	89.76
Dec-09	43.06	0.02	7.88	0.00	4.30	8.31	4.65	0.25	0.00	3.00	2.40	4.30	78.17
TOTAL =	668.36	35.78	74.83	0.00	113.61	66.56	93.05	61.64	0.00	48.70	40.00	71.20	1273.73
Jan-10	37.93	0.00	9.14	0.00	9.36	2.73	3.16	0.83	0.00	2.97	2.34	4.19	72.65
Feb-10	28.74	0.00	0.00	0.00	6.18	3.29	10.44	0.41	0.00	2.48	1.98	3.53	57.05
Mar-10	37.61	0.00	0.00	0.00	9.46	3.22	12.90	0.88	0.00	3.17	2.59	4.52	74.35
Apr-10	43.62	0.00	0.00	0.00	3.70	9.64	14.28	2.48	0.00	3.42	2.86	4.87	84.87
May-10	45.44	0.00	0.00	0.00	13.68	1.97	17.40	3.68	0.00	4.26	3.47	6.19	96.09
Jun-10	47.11	0.00	0.00	0.00	10.01	6.61	21.93	6.01	0.00	6.37	5.18	9.18	112.40
Jul-10	50.06	0.00	0.00	0.00	5.24	11.79	25.14	8.82	0.00	6.20	5.03	9.00	121.28
Aug-10	49.96	0.00	0.00	0.00	10.44	11.99	22.09	4.25	0.00	6.43	5.12	9.43	119.71
Sep-10	39.67	0.00	0.00	0.00	19.61	0.01	17.81	2.12	0.00	4.82	3.85	7.26	95.15
Oct-10	40.43	0.00	0.00	0.00	14.53	0.27	13.57	1.34	0.00	3.65	2.91	5.34	82.04
Nov-10	36.71	0.00	0.00	0.00	5.89	8.13	11.94	1.37	0.00	3.13	2.49	4.52	74.18
Dec-10	31.39	0.00	0.00	0.00	11.98	0.03	12.14	0.77	0.00	3.36	2.63	4.85	67.15
TOTAL =	488.67	0.00	9.14	0.00	120.08	59.68	182.80	32.96	0.00	50.26	40.45	72.88	1056.92

MONTHLY WATER PRODUCTION DATA
(ALL AMOUNTS IN ACRE-FEET)

WELL DESIGNATION: / LOCATION:	HDWD #24 02N/05E-24H	BDVWA #2 02N/05E-27J01	BDVWA #3 02N/05E-27J02	BDVWA #4 02N/05E-27R	BDVWA #6 02N/05E-12B01	BDVWA #7 02N/05E-12B02	BDVWA #8 02N/05E-22J01S	BDVWA #9 02N/05E-12C025	HDWD #10 01N/06E-17A	CSA 70 W-1 #1 02N/06E-1801	CSA 70 W-1 #2 02N/06E-1802	CSA 70 W-1 #3 02N/06E-07Q	TOTALS
Jan-11	29.31	0.00	0.00	0.00	7.54	4.71	11.49	1.36	0.00	3.67	2.79	5.31	66.18
Feb-11	23.74	0.00	0.00	0.00	10.54	0.65	9.50	1.63	0.00	3.88	3.03	4.84	57.81
Mar-11	28.34	0.00	0.00	0.00	2.64	10.47	11.01	2.46	0.00	3.22	2.58	4.57	65.29
Apr-11	0.00	0.00	0.00	0.00	4.58	9.96	15.38	4.61	0.00	3.51	2.74	4.81	45.59
May-11	0.00	0.00	6.22	0.00	12.41	3.66	5.87	7.06	0.00	3.63	2.88	5.15	46.88
Jun-11	0.00	0.00	11.14	0.00	14.25	5.78	3.50	6.39	0.00	4.23	3.36	6.08	54.73
Jul-11	4.39	0.00	7.13	0.00	6.87	16.17	10.43	7.87	0.00	4.71	3.72	6.89	68.18
Aug-11	42.04	0.00	7.02	0.00	24.75	0.01	9.45	4.24	0.00	4.58	3.64	6.65	102.38
Sep-11	37.81	0.12	5.81	0.00	14.72	0.28	6.78	9.58	0.00	3.82	3.01	5.50	87.43
Oct-11	37.76	0.00	4.59	0.00	6.27	2.88	6.63	12.61	0.00	3.64	2.82	5.19	82.39
Nov-11	46.55	0.00	6.15	0.00	4.02	2.95	2.86	10.95	0.00	2.82	2.23	4.10	82.63
Dec-11	48.94	0.00	2.48	0.00	0.27	0.27	6.28	14.57	0.00	2.87	2.27	4.09	82.04
TOTAL =	298.88	0.12	50.54	0.00	108.86	57.79	99.18	83.33	0.00	44.58	35.07	63.18	841.53
RAGE MONTHLY PRODUCTION:	24.91	0.01	4.21	0.00	9.07	4.82	8.27	6.94	0.00	3.72	2.92	5.27	70.13

APPENDIX B

AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS
JANUARY 1990 – DECEMBER 2011

Page Number	Well No.
1	Gubler Farm Well – G01
2	BDVWA #9
3	BDVWA #6
4	BDVWA #7
5	Moran Well - DRY
6	CSA 70 W-1 #1
7	CSA 70 W-1 #2
8	HDWD #24
9	BDVWA #8
10	USGS Well
11	BDVWA #3
12	BDVWA #2
13	BDVWA #4
14	HDWD #24
15	HDWD #20
16	HDWD #10
17	Gubler Farm Well H01
18	Hayes Well
19	BDVWA #1
20	HDWD #23
21	Gubler Farm Well K01
22	BH #1

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: GUBLER FARM WELL
LOCATION: 02N/05E-01G01
ELEVATION: 3,019.84

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2903.54	01/11/95	2906.42	01/19/00	2903.59	01/11/05	2900.74	01/14/10	2897.54
02/06/90	2903.59	02/08/95	2906.01	02/14/00	2903.51	02/15/05	2900.44	02/17/10	2897.44
03/06/90	2903.67	03/08/95	2906.09	03/08/00	2903.51	03/09/05	2900.74	03/17/10	2897.74
04/10/90	2903.42	04/19/95	2905.92	04/12/00	2903.51	04/01/05	NA	04/14/10	NA
05/02/90	2903.34	05/10/95	2905.84	05/10/00	2903.51	05/18/05	2900.64	05/12/10	2897.14
06/05/90	2903.34	06/14/95	2906.59	06/14/00	2903.34	06/01/05	NA	06/10/10	2897.24
07/03/90	2903.67	07/12/95	2906.51	07/18/00	2903.26	07/13/05	2900.44	07/14/10	2897.34
08/07/90	2903.46	08/30/95	2906.76	08/09/00	2903.34	08/17/05	2900.34	08/19/10	2897.04
09/12/90	2903.46	09/13/95	2906.51	09/27/00	2903.00	09/13/05	2900.94	09/08/10	NA
10/02/90	2903.09	10/11/95	2906.84	10/11/00	2903.00	10/20/05	2900.84	10/13/10	2896.94
11/06/90	2903.42	11/08/95	2906.76	11/08/00	2903.09	11/22/05	2900.74	11/17/10	2896.84
12/04/90	2903.76	12/27/95	2906.84	12/12/00	2903.00	12/21/05	2899.94	12/16/10	2896.84
01/08/91	2904.26	01/10/96	2906.67	01/10/01	2902.84	01/11/06	2899.94	01/12/11	2896.74
02/06/91	2903.64	02/14/96	2906.84	02/14/01	2902.84	02/07/06	2899.84	02/09/11	2896.74
03/07/91	2903.94	03/13/96	2906.67	03/14/01	2902.84	03/08/06	2899.84	03/09/11	2896.84
04/04/91	2903.82	04/30/96	2906.59	04/11/01	2902.84	04/12/06	2899.84	04/13/11	2896.74
05/09/91	2903.76	05/15/96	2906.51	05/09/01	2902.84	05/10/06	2899.84	05/11/11	2896.84
06/07/91	2903.51	06/19/96	2906.67	06/13/01	2902.51	06/21/06	NA	06/08/11	2896.84
07/09/91	2903.68	07/10/96	2906.59	07/11/01	2902.34	07/12/06	NA	07/13/11	2896.84
08/06/91	2903.68	08/21/96	2906.67	08/08/01	2902.34	08/16/06	2907.44	08/10/11	2896.84
09/10/91	2903.59	09/11/96	2906.09	09/12/01	2902.34	09/13/06	2906.84	09/14/11	2896.74
10/08/91	2903.68	10/09/96	2906.17	10/10/01	2902.18	10/18/06	2906.84	10/12/11	2896.74
11/12/91	2903.76	11/13/96	2906.34	11/20/01	2902.18	11/15/06	2907.34	11/09/11	2896.34
12/10/91	2904.01	12/18/96	2906.51	12/13/01	2902.18	12/20/06	2899.64	12/14/11	2896.34
01/14/92	2904.09	01/08/97	2906.34	01/09/02	2902.18	01/10/07	2899.64		
02/11/92	2904.09	02/12/97	2906.34	02/13/02	2902.34	02/13/07	2899.54		
03/10/92	2903.09	03/12/97	2906.67	03/13/02	2902.66	03/14/07	2899.44		
04/14/92	2904.17	04/09/97	2906.09	04/10/02	2901.92	04/18/07	2899.54		
05/12/92	2903.92	05/14/97	2906.17	05/08/02	2902.09	05/16/07	2899.64		
06/09/92	2903.84	06/11/97	2906.34	06/12/02	2902.24	06/13/07	2899.64		
07/14/92	2903.97	07/09/97	2906.26	07/10/02	2902.34	07/11/07	2899.74		
08/11/92	2904.84	08/13/97	2905.92	08/14/02	2902.09	08/08/07	2899.34		
09/10/92	2905.01	09/10/97	2905.26	09/11/02	2901.84	09/19/07	2899.44		
10/13/92	2905.09	10/08/97	2906.34	10/09/02	2901.84	10/10/07	2899.74		
11/10/92	2905.09	11/12/97	2906.59	11/13/02	2901.84	11/14/07	2906.64		
12/08/92	2906.84	12/10/97	2906.04	12/11/02	2901.64	12/12/07	2898.84		
01/12/93	2906.84	01/14/98	2906.18	01/08/03	2901.64	01/09/08	2906.54		
02/09/93	2905.09	02/11/98	2906.34	02/12/03	2901.84	02/27/08	2898.84		
03/09/93	2905.26	03/11/98	2905.09	03/12/03	2901.64	03/12/08	2898.74		
04/13/93	2905.34	04/08/98	2905.47	04/09/03	2901.64	04/22/08	2906.54		
05/12/93	2905.34	05/13/98	2906.51	05/21/03	2901.64	05/12/08	2898.74		
06/09/93	2905.34	06/10/98	2904.84	06/11/03	2901.64	06/11/08	2898.64		
07/14/93	2905.42	07/08/98	2904.84	07/16/03	2901.14	07/09/08	2898.44		
08/11/93	2905.59	08/12/98	2904.76	08/13/03	2901.14	08/27/08	2898.44		
09/13/93	2905.76	09/09/98	2904.59	09/10/03	2900.94	09/10/08	2898.34		
10/12/93	2905.59	10/20/98	2904.51	10/08/03	2900.84	10/15/08	2897.84		
11/08/93	2905.59	11/17/98	2905.17	11/12/03	2900.84	11/12/08	2898.14		
12/08/93	2905.84	12/15/98	2904.17	12/10/03	2900.84	12/17/08	NA		
01/12/94	2905.84	01/12/99	2904.17	01/14/04	2900.94	01/14/09	2897.84		
02/09/94	2905.67	02/11/99	2904.76	02/18/04	2901.14	02/11/09	2897.84		
03/09/94	2905.84	03/16/99	2903.92	03/10/04	2900.94	03/11/09	2897.84		
04/13/94	2905.84	04/14/99	2904.92	04/14/04	2900.94	04/22/09	2897.84		
05/11/94	2905.76	05/12/99	2905.51	05/12/04	2900.94	05/13/09	2897.94		
06/09/94	2905.84	06/09/99	2904.84	06/16/04	2900.84	06/09/09	2898.04		
07/13/94	2905.76	07/14/99	2905.18	07/21/04	2900.74	07/08/09	2897.54		
08/10/94	2905.84	08/11/99	2905.09	08/11/04	2900.74	08/19/09	2897.64		
09/14/94	2905.92	09/15/99	2905.51	09/08/04	2900.74	09/16/09	2897.34		
10/12/94	2906.01	10/13/99	2905.92	10/12/04	2900.84	10/14/09	2897.64		
11/09/94	2906.09	11/17/99	2905.76	11/17/04	2900.54	11/12/09	2897.54		
12/14/94	2906.17	12/08/99	2905.84	12/07/04	2900.44	12/16/09	2897.24		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: BDVWA #9
LOCATION: 02N/05E-12C025
ELEVATION: 3,094.47

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	2923.47	01/19/00	2912.47	01/11/05	2904.57	01/14/10	2908.67
02/06/90	NA	02/08/95	2923.47	02/14/00	2912.47	02/15/05	NA	02/17/10	2908.77
03/06/90	NA	03/08/95	2923.47	03/08/00	2912.47	03/09/05	NA	03/17/10	2908.67
04/10/90	NA	04/19/95	2923.47	04/12/00	2912.47	04/01/05	NA	04/14/10	NA
05/02/90	NA	05/10/95	2923.47	05/10/00	2911.47	05/18/05	NA	05/12/10	2908.97
06/05/90	NA	06/14/95	2923.47	06/14/00	2912.47	06/01/05	NA	06/10/10	2908.57
07/03/90	NA	07/12/95	2923.47	07/18/00	2912.47	07/13/05	NA	07/14/10	2908.17
08/07/90	NA	08/30/95	2922.47	08/09/00	3094.47	08/17/05	NA	08/19/10	2908.47
09/12/90	NA	09/13/95	2923.47	09/27/00	2911.47	09/13/05	NA	09/08/10	NA
10/02/90	NA	10/11/95	2922.47	10/11/00	2911.47	10/20/05	NA	10/13/10	2908.77
11/06/90	NA	11/08/95	2922.47	11/08/00	2911.47	11/22/05	NA	11/17/10	2908.47
12/04/90	NA	12/27/95	2921.47	12/12/00	2912.47	12/01/05	NA	12/16/10	2908.47
01/08/91	NA	01/10/96	2921.47	01/10/01	2910.47	01/11/06	NA	01/12/11	2908.47
02/06/91	NA	02/14/96	2921.47	02/14/01	2911.47	02/07/06	NA	02/09/11	2908.47
03/07/91	NA	03/13/96	2921.47	03/14/01	2911.47	03/08/06	NA	03/09/11	2908.47
04/04/91	NA	04/30/96	2921.47	04/11/01	2910.47	04/12/06	NA	04/13/11	2908.47
05/09/91	NA	05/15/96	2921.47	05/09/01	2910.47	05/10/06	NA	05/11/11	2908.47
06/07/91	NA	06/19/96	2921.47	06/13/01	2909.47	06/21/06	NA	06/08/11	2908.47
07/09/91	NA	07/10/96	2921.47	07/11/01	2909.47	07/12/06	NA	07/13/11	2908.37
08/06/91	NA	08/21/96	2921.47	08/08/01	2909.47	08/16/06	NA	08/10/11	2908.37
09/10/91	NA	09/11/96	2921.47	09/12/01	2909.47	09/13/06	NA	09/14/11	2908.37
10/08/91	NA	10/09/96	2921.47	10/10/01	2908.47	10/18/06	NA	10/12/11	2907.57
11/12/91	NA	11/13/96	2920.47	11/20/01	2909.47	11/15/06	NA	11/09/11	2910.47
12/10/91	NA	12/18/96	2921.47	12/13/01	2909.47	12/20/06	NA	12/14/11	2907.37
01/14/92	2922.97	01/08/97	2919.47	01/09/02	2909.47	01/10/07	NA		
02/11/92	2922.64	02/12/97	2920.47	02/13/02	2910.47	02/13/07	NA		
03/10/92	2922.22	03/12/97	2919.47	03/13/02	2910.47	03/14/07	NA		
04/14/92	2921.22	04/09/97	2920.47	04/10/02	2908.47	04/18/07	NA		
05/12/92	2921.22	05/14/97	2919.47	05/08/02	2908.47	05/18/07	NA		
06/09/92	2921.22	06/11/97	2919.47	06/12/02	2908.47	06/13/07	NA		
07/14/92	NA	07/09/97	2919.47	07/10/02	2907.47	07/11/07	NA		
08/11/92	2921.47	08/13/97	2919.47	08/14/02	2907.47	08/08/07	NA		
09/10/92	2921.55	09/10/97	2919.47	09/11/02	2907.47	09/19/07	NA		
10/13/92	2921.80	10/08/97	2919.47	10/09/02	2907.47	10/10/07	NA		
11/10/92	2921.64	11/12/97	2918.47	11/13/02	2907.47	11/14/07	2912.57		
12/08/92	2921.47	12/10/97	2919.47	12/11/02	2907.47	12/12/07	2905.47		
01/12/93	2916.47	01/14/98	2919.47	01/08/03	2907.47	01/09/08	2912.87		
02/09/93	2916.47	02/11/98	2919.47	02/12/03	2907.47	02/27/08	NA		
03/09/93	2921.47	03/11/98	2917.47	03/12/03	2908.47	03/12/08	NA		
04/13/93	2921.47	04/08/98	2918.47	04/09/03	2907.47	04/22/08	2912.87		
05/12/93	2921.47	05/13/98	2919.47	05/21/03	2906.47	05/12/08	2912.97		
06/09/93	2921.47	06/10/98	2919.47	06/11/03	2906.47	06/11/08	2910.37		
07/14/93	2922.47	07/08/98	2917.47	07/16/03	2906.47	07/09/08	2910.17		
08/11/93	2922.47	08/12/98	2919.47	08/13/03	2906.47	08/27/08	2910.37		
09/13/93	2922.47	09/09/98	2919.47	09/10/03	2905.47	09/10/08	2909.97		
10/12/93	2922.47	10/20/98	2918.47	10/08/03	2906.47	10/15/08	NA		
11/08/93	2922.47	11/17/98	2915.47	11/12/03	2906.47	11/12/08	2908.47		
12/08/93	2922.47	12/15/98	2918.47	12/10/03	2906.47	12/17/08	NA		
01/12/94	2922.47	01/12/99	2918.47	01/14/04	2906.47	01/14/09	2917.97		
02/09/94	2922.47	02/11/99	2919.47	02/18/04	2906.47	02/11/09	2909.77		
03/09/94	2922.47	03/16/99	2919.47	03/10/04	2906.47	03/11/09	2907.07		
04/13/94	2923.47	04/14/99	2915.47	04/14/04	2906.47	04/22/09	2909.37		
05/11/94	2923.47	05/12/99	2916.47	05/12/04	2906.47	05/13/09	2908.17		
06/09/94	2923.47	06/09/99	2915.47	06/16/04	2905.47	06/09/09	2909.47		
07/13/94	2922.47	07/14/99	2915.47	07/21/04	2906.47	07/08/09	2909.67		
08/10/94	2922.47	08/11/99	2912.47	08/11/04	2906.47	08/19/09	2909.37		
09/14/94	2922.47	09/15/99	2912.47	09/08/04	2904.47	09/16/09	NA		
10/12/94	2923.47	10/13/99	2911.47	10/12/04	2904.67	10/14/09	2908.67		
11/09/94	2923.47	11/17/99	2912.47	11/17/04	2904.37	11/12/09	2908.97		
12/14/94	2923.47	12/08/99	2912.47	12/07/04	2904.57	12/16/09	2908.97		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: **BDVWA #6**
LOCATION: **02N/05E-12B01**
ELEVATION: **3059.35**

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2909.15	01/11/95	2913.43	01/19/00	2915.43	01/11/05	NA	01/14/10	2896.25
02/06/90	2910.77	02/08/95	2914.52	02/14/00	2915.43	02/15/05	2902.35	02/17/10	2896.15
03/06/90	2911.35	03/08/95	2914.85	03/08/00	2915.52	03/09/05	2902.35	03/17/10	2894.55
04/10/90	2909.19	04/19/95	2914.35	04/12/00	2915.60	04/01/05	NA	04/14/10	NA
05/02/90	2909.52	05/10/95	2916.60	05/10/00	2915.51	05/18/05	NA	05/12/10	2897.35
06/05/90	2908.52	06/14/95	2918.18	06/14/00	2909.02	06/01/05	NA	06/10/10	2896.95
07/03/90	2909.35	07/12/95	2917.43	07/18/00	2905.85	07/13/05	NA	07/14/10	2896.75
08/07/90	2908.52	08/30/95	2913.18	08/09/00	2911.10	08/17/05	NA	08/19/10	2893.45
09/12/90	2908.35	09/13/95	2915.43	09/27/00	2910.35	09/13/05	NA	09/08/10	NA
10/02/90	2908.85	10/11/95	2915.68	10/11/00	2910.69	10/20/05	NA	10/13/10	2894.15
11/06/90	2909.85	11/08/95	2915.85	11/08/00	2910.85	11/22/05	NA	11/17/10	2896.05
12/04/90	2911.02	12/27/95	2915.85	12/12/00	2905.51	12/21/05	NA	12/16/10	2897.25
01/08/91	2911.60	01/10/96	2915.68	01/10/01	2911.43	01/11/06	NA	01/12/11	2897.05
02/06/91	2910.75	02/14/96	2917.52	02/14/01	2911.35	02/07/06	NA	02/09/11	2895.15
03/07/91	2907.55	03/13/96	2925.18	03/14/01	2912.35	03/08/06	NA	03/09/11	2897.25
04/04/91	2912.58	04/30/96	2925.27	04/11/01	2912.52	04/12/06	NA	04/13/11	2889.45
05/09/91	2911.85	05/15/96	2920.35	05/09/01	2911.60	05/10/06	NA	05/11/11	2896.35
06/07/91	2911.10	06/19/96	2922.43	06/13/01	2911.35	06/21/06	NA	06/08/11	2897.35
07/09/91	2911.10	07/10/96	2914.27	07/11/01	2911.43	07/12/06	NA	07/13/11	2889.25
08/06/91	2910.60	08/21/96	2914.02	08/08/01	2911.35	08/16/06	NA	08/10/11	2894.25
09/10/91	2910.69	09/11/96	2913.35	09/12/01	2911.43	09/13/06	NA	09/14/11	2893.85
10/08/91	2910.69	10/09/96	2916.35	10/10/01	2911.60	10/18/06	NA	10/12/11	2895.25
11/12/91	2911.10	11/13/96	2914.68	11/20/01	2911.85	11/15/06	NA	11/09/11	2896.35
12/10/91	2911.77	12/18/96	2914.68	12/13/01	2911.85	12/20/06	NA	12/14/11	2897.85
01/14/92	2913.10	01/08/97	2914.85	01/09/02	2912.35	01/10/07	NA		
02/11/92	2913.68	02/12/97	2914.85	02/13/02	2910.10	02/13/07	2917.95		
03/10/92	2914.10	03/12/97	2915.18	03/13/02	2909.52	03/14/07	2906.35		
04/14/92	2913.93	04/09/97	2915.35	04/10/02	2910.35	04/18/07	2905.05		
05/12/92	2913.02	05/14/97	2915.35	05/08/02	2911.35	05/16/07	2905.35		
06/09/92	2912.35	06/11/97	2912.35	06/12/02	2910.35	06/13/07	2905.75		
07/14/92	2912.93	07/09/97	2912.68	07/10/02	2910.60	07/11/07	2904.35		
08/11/92	2915.43	08/13/97	2911.52	08/14/02	2908.60	08/08/07	2903.75		
09/10/92	2916.02	09/10/97	2912.60	09/11/02	2909.95	09/19/07	2903.85		
10/13/92	2916.68	10/08/97	2912.10	10/09/02	2909.95	10/10/07	2903.15		
11/10/92	2917.18	11/12/97	2912.52	11/13/02	NA	11/14/07	2899.95		
12/08/92	2919.52	12/10/97	2912.02	12/11/02	NA	12/12/07	2901.85		
01/12/93	2920.35	01/14/98	2913.27	01/08/03	NA	01/09/08	2904.15		
02/09/93	2919.52	02/11/98	2912.27	02/12/03	2911.55	02/27/08	2900.45		
03/09/93	2919.60	03/11/98	2914.18	03/12/03	NA	03/12/08	2896.05		
04/13/93	2920.35	04/08/98	2914.02	04/09/03	NA	04/22/08	2899.45		
05/12/93	2920.27	05/13/98	2913.10	05/21/03	NA	05/12/08	2899.45		
06/09/93	2920.43	06/10/98	2913.02	06/11/03	NA	06/11/08	2896.95		
07/14/93	2920.52	07/08/98	2913.52	07/16/03	NA	07/09/08	2889.95		
08/11/93	2919.35	08/12/98	2910.02	08/13/03	NA	08/27/08	2897.05		
09/13/93	2920.02	09/09/98	2910.69	09/10/03	NA	09/10/08	2896.05		
10/12/93	2917.18	10/20/98	2911.02	10/08/03	NA	10/15/08	2896.35		
11/08/93	2917.35	11/17/98	2911.18	11/12/03	NA	11/12/08	2895.85		
12/08/93	2917.35	12/15/98	2911.77	12/10/03	NA	12/17/08	NA		
01/12/94	2917.43	01/12/99	2910.85	01/14/04	NA	01/14/09	2896.05		
02/09/94	2918.02	02/11/99	2911.60	02/18/04	NA	02/11/09	2897.85		
03/09/94	2917.35	03/16/99	2912.27	03/10/04	NA	03/11/09	2899.85		
04/13/94	2917.27	04/14/99	2913.35	04/14/04	NA	04/22/09	2899.55		
05/11/94	2914.27	05/12/99	2913.43	05/12/04	NA	05/13/09	2899.45		
06/09/94	2914.18	06/09/99	2913.10	06/16/04	NA	06/09/09	2895.35		
07/13/94	2913.93	07/14/99	2914.52	07/21/04	NA	07/08/09	2897.15		
08/10/94	2913.77	08/11/99	2914.60	08/11/04	NA	08/19/09	2890.35		
09/14/94	2913.52	09/15/99	2914.69	09/08/04	NA	09/16/09	2894.15		
10/12/94	2913.68	10/13/99	2914.27	10/12/04	NA	10/14/09	2895.05		
11/09/94	2912.85	11/17/99	2914.27	11/17/04	NA	11/12/09	2896.15		
12/14/94	2913.27	12/08/99	2914.02	12/07/04	NA	12/16/09	2896.85		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: BDVWA #7
LOCATION: 02N/05E-12B02
ELEVATION: 3,055.71

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2910.01	01/11/95	2914.63	01/19/00	2916.29	01/11/05	2910.71	01/14/10	2897.01
02/06/90	2911.54	02/08/95	2915.04	02/14/00	2916.38	02/15/05	2910.91	02/17/10	2897.31
03/06/90	2912.04	03/08/95	2914.71	03/08/00	2916.38	03/09/05	2911.31	03/17/10	2897.21
04/10/90	2909.67	04/19/95	2914.21	04/12/00	2916.46	04/01/05	NA	04/14/10	NA
05/02/90	2910.21	05/10/95	2917.21	05/10/00	2916.38	05/18/05	2909.71	05/12/10	2897.81
06/05/90	2909.21	06/14/95	2908.88	06/14/00	2910.71	06/01/05	NA	06/10/10	2897.71
07/03/90	2910.13	07/12/95	2908.79	07/18/00	3055.71	07/13/05	2907.71	07/14/10	2897.81
08/07/90	2909.13	08/30/95	2913.63	08/09/00	2910.21	08/17/05	2907.61	08/19/10	2893.91
09/12/90	2908.38	09/13/95	2914.63	09/27/00	2911.21	09/13/05	2906.51	09/08/10	NA
10/02/90	2909.04	10/11/95	2915.63	10/11/00	2911.63	10/20/05	2909.71	10/13/10	2895.11
11/06/90	2910.29	11/08/95	2915.79	11/08/00	2911.71	11/22/05	2909.41	11/17/10	2896.41
12/04/90	2911.46	12/27/95	2916.04	12/12/00	2908.54	12/21/05	2908.71	12/16/10	2896.61
01/08/91	2912.71	01/10/96	2916.21	01/10/01	2912.21	01/11/06	2908.71	01/12/11	2897.41
02/06/91	2911.31	02/14/96	2918.04	02/14/01	2912.71	02/07/06	2908.91	02/09/11	2895.21
03/07/91	2913.31	03/13/96	2917.04	03/14/01	2914.21	03/08/06	2908.71	03/09/11	2897.71
04/04/91	2913.27	04/30/96	2916.71	04/11/01	2913.46	04/12/06	2908.71	04/13/11	2891.81
05/09/91	2912.71	05/15/96	2916.79	05/09/01	2911.21	05/10/06	2908.41	05/11/11	2896.71
06/07/91	2911.80	06/19/96	2916.63	06/13/01	2912.21	06/21/06	NA	06/08/11	2896.81
07/09/91	2911.80	07/10/96	2914.79	07/11/01	2912.13	07/12/06	NA	07/13/11	2888.71
08/06/91	2911.30	08/21/96	2916.46	08/08/01	2912.21	08/16/06	2905.61	08/10/11	2894.51
09/10/91	2911.46	09/11/96	2913.79	09/12/01	2912.13	09/13/06	2905.61	09/14/11	2894.51
10/08/91	2911.38	10/09/96	2916.96	10/10/01	2912.46	10/18/06	2905.31	10/12/11	2895.51
11/12/91	2910.80	11/13/96	2915.38	11/20/01	2912.46	11/15/06	2905.71	11/09/11	2896.71
12/10/91	2912.71	12/18/96	2915.71	12/13/01	2912.46	12/20/06	2906.11	12/14/11	2898.41
01/14/92	2913.79	01/08/97	2915.88	01/09/02	2912.96	01/10/07	2906.61		
02/11/92	2914.21	02/12/97	2915.71	02/13/02	2910.46	02/13/07	2904.41		
03/10/92	2914.71	03/12/97	2915.96	03/13/02	2910.38	03/14/07	2904.71		
04/14/92	2914.38	04/09/97	2916.21	04/10/02	2910.96	04/18/07	2904.71		
05/12/92	2913.46	05/14/97	2915.96	05/08/02	2911.96	05/16/07	2905.31		
06/09/92	2913.21	06/11/97	2912.88	06/12/02	2910.81	06/13/07	2904.61		
07/14/92	2912.88	07/09/97	2913.54	07/10/02	2911.46	07/11/07	2904.31		
08/11/92	2916.04	08/13/97	2912.63	08/14/02	2907.81	08/08/07	2903.71		
09/10/92	2912.71	09/10/97	2913.51	09/11/02	2910.96	09/19/07	2901.71		
10/13/92	2917.21	10/08/97	2912.96	10/09/02	2910.71	10/10/07	2901.61		
11/10/92	2918.13	11/12/97	2913.46	11/13/02	2910.51	11/14/07	2902.11		
12/08/92	2919.79	12/10/97	2912.71	12/11/02	2911.41	12/02/07	2901.81		
01/12/93	2921.29	01/14/98	2911.79	01/08/03	2911.91	01/09/08	2901.41		
02/09/93	2921.38	02/11/98	2912.05	02/12/03	2912.31	02/27/08	2900.01		
03/09/93	2921.46	03/11/98	2915.04	03/12/03	2910.91	03/12/08	2899.81		
04/13/93	2920.79	04/08/98	2914.79	04/09/03	2910.51	04/22/08	2902.21		
05/12/93	2920.88	05/13/98	2912.63	05/21/03	2910.71	05/12/08	2901.91		
06/09/93	2921.13	06/10/98	2913.79	06/11/03	2909.71	06/11/08	2896.71		
07/14/93	2921.21	07/08/98	2914.46	07/16/03	2909.11	07/09/08	NA		
08/11/93	2919.88	08/12/98	2910.54	08/13/03	2908.51	08/27/08	2896.71		
09/13/93	2917.71	09/09/98	2910.38	09/10/03	2909.01	09/10/08	2891.81		
10/12/93	2917.88	10/20/98	2910.63	10/08/03	2908.11	10/15/08	2896.31		
11/08/93	2917.81	11/17/98	2912.13	11/12/03	2909.71	11/12/08	2897.41		
12/08/93	2917.96	12/15/98	2912.63	12/10/03	2909.21	12/17/08	NA		
01/12/94	2918.21	01/12/99	2911.71	01/14/04	2909.41	01/14/09	2897.21		
02/09/94	2918.71	02/11/99	2912.38	02/18/04	2909.51	02/11/09	2897.81		
03/09/94	2918.13	03/16/99	2912.79	03/10/04	2909.31	03/11/09	2899.81		
04/13/94	2917.96	04/14/99	2914.21	04/14/04	2909.31	04/22/09	2899.61		
05/11/94	2916.88	05/12/99	2914.38	05/12/04	2907.51	05/13/09	2899.31		
06/09/94	2916.79	06/09/99	2914.71	06/16/04	2908.31	06/09/09	2888.01		
07/13/94	2916.71	07/14/99	2915.63	07/21/04	2908.51	07/08/09	2896.91		
08/10/94	2916.88	08/11/99	2915.71	08/11/04	2908.51	08/19/09	2896.41		
09/14/94	2916.54	09/15/99	2915.46	09/08/04	NA	09/16/09	2893.71		
10/12/94	2916.71	10/13/99	2914.96	10/12/04	2907.91	10/14/09	2895.71		
11/09/94	2913.88	11/17/99	2915.46	11/17/04	2908.71	11/12/09	2896.51		
12/14/94	2914.04	12/08/99	2915.38	12/07/04	2909.21	12/16/09	2897.21		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: MORAN WELL
LOCATION: 02N/05E-13A
ELEVATION: 3084.98

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2941.18	01/11/95	2943.15	01/19/00	2931.40	01/11/05	DRY	01/14/10	DRY
02/06/90	2941.31	02/08/95	2943.15	02/14/00	2931.40	02/15/05	DRY	02/17/10	DRY
03/06/90	2941.48	03/08/95	2943.31	03/08/00	2931.23	03/09/05	DRY	03/17/10	DRY
04/10/90	2941.15	04/19/95	2943.06	04/12/00	2931.32	04/01/05	DRY	04/14/10	DRY
05/02/90	2941.31	05/10/95	2942.31	05/10/00	2931.23	05/18/05	DRY	05/12/10	DRY
06/05/90	2941.23	06/14/95	2942.06	06/14/00	2931.15	06/01/05	DRY	06/10/10	DRY
07/03/90	2941.31	07/12/95	2942.15	07/18/00	2931.15	07/13/05	DRY	07/14/10	DRY
08/07/90	2941.31	08/30/95	2940.98	08/09/00	2931.31	08/17/05	DRY	08/19/10	DRY
09/12/90	2941.15	09/13/95	2941.23	09/27/00	2931.23	09/13/05	DRY	09/08/10	DRY
10/02/90	2941.31	10/11/95	2941.23	10/11/00	2931.32	10/20/05	DRY	10/13/10	DRY
11/06/90	2941.40	11/08/95	2941.23	11/08/00	2931.06	11/22/05	DRY	11/17/10	DRY
12/04/90	2942.56	12/27/95	2940.98	12/12/00	2931.14	12/21/05	DRY	12/16/10	DRY
01/08/91	2942.69	01/10/96	2940.90	01/10/01	2930.90	01/11/06	DRY	01/12/11	DRY
02/06/91	2941.98	02/14/96	2940.90	02/14/01	NA	02/07/06	DRY	02/09/11	DRY
03/07/91	2942.73	03/13/96	2940.98	03/14/01	NA	03/08/06	DRY	03/09/11	DRY
04/04/91	2942.21	04/30/96	2941.06	04/11/01	NA	04/12/06	DRY	04/13/11	DRY
05/09/91	2942.23	05/15/96	2941.23	05/09/01	NA	05/10/06	DRY	05/11/11	DRY
06/07/91	2942.15	06/19/96	2941.06	06/13/01	NA	06/21/06	DRY	06/08/11	DRY
07/09/91	2942.32	07/10/96	2941.15	07/11/01	NA	07/12/06	DRY	07/13/11	DRY
08/06/91	2942.15	08/21/96	2941.06	08/08/01	NA	08/16/06	DRY	08/10/11	DRY
09/10/91	2942.32	09/11/96	2939.31	09/12/01	2930.98	09/13/06	DRY	09/14/11	DRY
10/08/91	2942.40	10/09/96	2939.23	10/10/01	NA	10/18/06	DRY	10/12/11	DRY
11/12/91	2942.57	11/13/96	2939.48	11/20/01	NA	11/15/06	DRY	11/09/11	DRY
12/10/91	2942.65	12/18/96	2938.15	12/13/01	NA	12/20/06	DRY	12/14/11	DRY
01/14/92	2942.73	01/08/97	2938.48	01/09/02	DRY	01/10/07	DRY		
02/11/92	2942.56	02/12/97	2937.06	02/13/02	DRY	02/13/07	DRY		
03/10/92	2942.81	03/12/97	2937.06	03/13/02	DRY	03/14/07	DRY		
04/14/92	2942.73	04/09/97	2937.15	04/10/02	DRY	04/18/07	DRY		
05/12/92	2943.06	05/14/97	2937.15	05/08/02	DRY	05/16/07	DRY		
06/09/92	2942.98	06/11/97	2937.06	06/12/02	DRY	06/13/07	DRY		
07/14/92	2942.15	07/09/97	2937.06	07/10/02	DRY	07/11/07	DRY		
08/11/92	2943.15	08/13/97	2937.06	08/14/02	DRY	08/08/07	DRY		
09/10/92	2943.31	09/10/97	2936.15	09/11/02	DRY	09/19/07	DRY		
10/13/92	2943.40	10/08/97	2937.23	10/09/02	DRY	10/10/07	DRY		
11/10/92	2943.40	11/12/97	2935.90	11/13/02	DRY	11/14/07	DRY		
12/08/92	2944.98	12/10/97	2935.48	12/11/02	DRY	12/12/07	DRY		
01/12/93	2944.98	01/14/98	2935.48	01/08/03	DRY	01/09/08	DRY		
02/09/93	2943.48	02/11/98	2935.40	02/12/03	DRY	02/27/08	DRY		
03/09/93	2943.65	03/11/98	2935.06	03/12/03	DRY	03/12/08	DRY		
04/13/93	2943.73	04/08/98	2935.06	04/09/03	DRY	04/22/08	DRY		
05/12/93	2943.98	05/13/98	2935.23	05/21/03	DRY	05/12/08	DRY		
06/09/93	2943.98	06/10/98	2934.56	06/11/03	DRY	06/11/08	DRY		
07/14/93	2943.90	07/08/98	2934.48	07/16/03	DRY	07/09/08	DRY		
08/11/93	2944.06	08/12/98	2934.23	08/13/03	DRY	08/27/08	DRY		
09/13/93	2944.15	09/09/98	2934.06	09/10/03	DRY	09/10/08	DRY		
10/12/93	2944.15	10/20/98	2933.48	10/08/03	DRY	10/15/08	DRY		
11/08/93	2944.15	11/17/98	2934.56	11/12/03	DRY	11/12/08	DRY		
12/08/93	2944.15	12/15/98	2933.23	12/10/03	DRY	12/17/08	DRY		
01/12/94	2944.15	01/12/99	2932.98	01/14/04	DRY	01/14/09	DRY		
02/09/94	2944.23	02/11/99	2933.13	02/18/04	DRY	02/11/09	DRY		
03/09/94	2944.16	03/16/99	2932.81	03/10/04	DRY	03/11/09	DRY		
04/13/94	2944.06	04/14/99	2932.65	04/14/04	DRY	04/22/09	DRY		
05/11/94	2944.15	05/12/99	2932.48	05/12/04	DRY	05/13/09	DRY		
06/09/94	2944.06	06/09/99	2932.73	06/16/04	DRY	06/09/09	DRY		
07/13/94	2943.73	07/14/99	2932.23	07/21/04	DRY	07/08/09	DRY		
08/10/94	2945.31	08/11/99	2932.32	08/11/04	DRY	08/19/09	DRY		
09/14/94	2943.73	09/15/99	2932.23	09/08/04	DRY	09/16/09	DRY		
10/12/94	2943.81	10/13/99	2932.23	10/12/04	DRY	10/14/09	DRY		
11/09/94	2943.23	11/17/99	2932.06	11/17/04	DRY	11/12/09	DRY		
12/14/94	2943.23	12/08/99	2933.06	12/07/04	DRY	12/16/09	DRY		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: CSA 70 W-1 #1
LOCATION: 02N/06E-18B01
ELEVATION: 3,097.73

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	2868.90	01/19/00	2858.03	01/11/05	NA	01/14/10	NA
02/06/90	NA	02/08/95	2868.98	02/14/00	2858.40	02/15/05	2856.73	02/17/10	2847.53
03/06/90	NA	03/08/95	2869.40	03/08/00	2859.73	03/09/05	NA	03/17/10	NA
04/10/90	NA	04/19/95	2868.73	04/12/00	2860.07	04/01/05	NA	04/14/10	2847.83
05/02/90	NA	05/10/95	2868.67	05/10/00	2859.55	05/18/05	2856.73	05/12/10	2846.93
06/05/90	NA	06/14/95	2867.73	06/14/00	2858.13	06/01/05	NA	06/10/10	2845.13
07/03/90	NA	07/12/95	2865.65	07/18/00	2857.40	07/13/05	2855.53	07/14/10	NA
08/07/90	NA	08/30/95	2864.65	08/09/00	2859.81	08/17/05	2855.43	08/19/10	2843.23
09/12/90	NA	09/13/95	2864.56	09/27/00	2859.73	09/13/05	2855.03	09/08/10	NA
10/02/90	NA	10/11/95	2864.90	10/11/00	2858.32	10/20/05	2851.63	10/13/10	NA
11/06/90	NA	11/08/95	2865.65	11/08/00	2858.73	11/22/05	NA	11/17/10	2845.73
12/04/90	NA	12/27/95	2865.73	12/12/00	2859.65	12/21/05	2855.53	12/16/10	2845.93
01/08/91	NA	01/10/96	2866.40	01/10/01	2859.73	01/11/06	2855.73	01/12/11	2846.63
02/06/91	2866.43	02/14/96	2866.81	02/14/01	2861.40	02/07/06	2854.73	02/09/11	2846.73
03/07/91	2867.73	03/13/96	2867.48	03/14/01	2861.15	03/08/06	2854.93	03/09/11	2846.43
04/04/91	2866.98	04/30/96	2866.40	04/11/01	2861.23	04/12/06	2855.33	04/13/11	2846.83
05/09/91	2867.07	05/15/96	2865.56	05/09/01	2860.48	05/10/06	2854.93	05/11/11	2847.63
06/07/91	2866.07	06/19/96	2863.65	06/13/01	2859.56	06/21/06	NA	06/08/11	2847.93
07/09/91	2864.57	07/10/96	2863.48	07/11/01	2858.89	07/12/06	NA	07/13/11	2845.23
08/06/91	2864.15	08/21/96	2861.81	08/08/01	2858.40	08/16/06	2850.33	08/10/11	2845.73
09/10/91	2862.98	09/11/96	2861.98	09/12/01	2857.48	09/13/06	NA	09/14/11	2847.63
10/08/91	2863.48	10/09/96	2861.81	10/10/01	2857.81	10/18/06	NA	10/12/11	2847.53
11/12/91	2864.23	11/13/96	2862.90	11/20/01	2857.88	11/15/06	2850.03	11/09/11	2847.23
12/10/91	2865.23	12/18/96	2863.90	12/13/01	2858.98	12/20/06	NA	12/14/11	2848.53
01/14/92	2866.06	01/08/97	2864.65	01/09/02	2859.98	01/10/07	2849.93		
02/11/92	2866.73	02/12/97	2865.06	02/13/02	NA	02/13/07	2849.53		
03/10/92	2867.06	03/12/97	2864.81	03/13/02	2861.06	03/14/07	2849.13		
04/14/92	2866.73	04/09/97	2863.98	04/10/02	2859.35	04/18/07	2848.93		
05/12/92	2865.98	05/14/97	2863.56	05/08/02	2860.48	05/16/07	NA		
06/09/92	2865.40	06/11/97	2861.73	06/12/02	2859.23	06/13/07	2847.73		
07/14/92	2865.73	07/09/97	2860.81	07/10/02	2858.23	07/11/07	2847.73		
08/11/92	2865.23	08/13/97	2859.48	08/14/02	2857.63	08/08/07	2845.73		
09/10/92	2865.40	09/10/97	2858.40	09/11/02	2857.73	09/19/07	2848.73		
10/13/92	2865.73	10/08/97	2859.90	10/09/02	2858.23	10/10/07	2846.13		
11/10/92	2869.23	11/12/97	2859.73	11/13/02	2858.73	11/14/07	2846.23		
12/08/92	2868.15	12/18/96	2863.90	12/11/02	2855.73	12/12/07	2847.73		
01/12/93	2870.40	01/14/98	2861.65	01/08/03	2856.03	01/09/08	2845.73		
02/09/93	2869.31	02/11/98	2861.40	02/12/03	2856.53	02/27/08	2847.73		
03/09/93	2869.40	03/11/98	2861.98	03/12/03	2857.48	03/12/08	2848.53		
04/13/93	2869.73	04/08/98	2861.65	04/09/03	2857.33	04/22/08	2848.73		
05/12/93	2869.31	05/13/98	2862.23	05/21/03	2858.23	05/12/08	2848.63		
06/09/93	2868.40	06/10/98	2861.40	06/11/03	2858.03	06/11/08	NA		
07/14/93	2867.40	07/08/98	2859.06	07/16/03	NA	07/09/08	2847.13		
08/11/93	2866.81	08/12/98	2858.65	08/13/03	2856.43	08/27/08	NA		
09/13/93	2866.23	09/09/98	2858.06	09/10/03	2856.03	09/10/08	2842.73		
10/12/93	2866.56	10/20/98	2858.23	10/08/03	2855.83	10/15/08	2844.43		
11/08/93	2867.23	11/17/98	2858.81	11/12/03	2856.13	11/12/08	2845.23		
12/08/93	2867.90	12/15/98	2858.40	12/10/03	2856.73	12/17/08	NA		
01/12/94	2868.40	01/12/99	2859.90	01/14/04	2857.13	01/14/09	2848.43		
02/09/94	2869.23	02/11/99	2859.90	02/18/04	2857.63	02/11/09	2849.43		
03/09/94	2869.65	03/16/99	2861.06	03/10/04	NA	03/11/09	2849.83		
04/13/94	2868.48	04/14/99	2859.56	04/14/04	2858.13	04/22/09	2848.13		
05/11/94	2868.73	05/12/99	2860.40	05/12/04	2857.73	05/13/09	NA		
06/09/94	2867.06	06/09/99	2858.15	06/16/04	NA	06/09/09	NA		
07/13/94	2867.73	07/14/99	2858.13	07/21/04	2856.33	07/08/09	2847.83		
08/10/94	2867.23	08/11/99	2856.23	08/11/04	2855.63	08/19/09	NA		
09/14/94	2865.40	09/15/99	2858.73	09/08/04	NA	09/16/09	2844.83		
10/12/94	2865.73	10/13/99	2857.73	10/12/04	NA	10/14/09	NA		
11/09/94	2866.56	11/17/99	2856.48	11/17/04	NA	11/12/09	NA		
12/14/94	2867.73	12/08/99	2858.03	12/07/04	2855.63	12/16/09	2846.23		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: CSA 70 W-1 #2
LOCATION: 02N/06E-18B02
ELEVATION: 3,091.22

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	2870.05	01/19/00	2861.62	01/11/05	NA	01/14/10	NA
02/06/90	NA	02/08/95	2869.97	02/14/00	2859.97	02/15/05	2857.02	02/17/10	2850.62
03/06/90	NA	03/08/95	2870.22	03/08/00	2861.06	03/09/05	NA	03/17/10	NA
04/10/90	NA	04/19/95	2869.80	04/12/00	2861.22	04/01/05	NA	04/14/10	NA
05/02/90	NA	05/10/95	2869.89	05/10/00	2860.38	05/18/05	2857.22	05/12/10	2850.22
06/05/90	NA	06/14/95	2868.22	06/14/00	2857.22	06/01/05	NA	06/10/10	2848.62
07/03/90	NA	07/12/95	2867.55	07/18/00	2858.30	07/13/05	2855.42	07/14/10	NA
08/07/90	NA	08/30/95	2866.05	08/09/00	2859.89	08/17/05	2855.22	08/19/10	2846.42
09/12/90	NA	09/13/95	2865.55	09/27/00	2859.47	09/13/05	2854.82	09/08/10	NA
10/02/90	NA	10/11/95	2866.14	10/11/00	2860.14	10/20/05	2854.62	10/13/10	NA
11/06/90	NA	11/08/95	2866.47	11/08/00	2859.72	11/22/05	NA	11/17/10	2848.92
12/04/90	NA	12/27/95	2867.05	12/12/00	2859.47	12/21/05	2855.52	12/16/10	2849.32
01/08/91	NA	01/10/96	2867.30	01/10/01	2860.89	01/11/06	2855.72	01/12/11	2850.12
02/06/91	2867.32	02/14/96	2868.05	02/14/01	2861.47	02/07/06	2855.22	02/09/11	2850.22
03/07/91	2867.42	03/13/96	2868.22	03/14/01	2862.22	03/08/06	2855.22	03/09/11	2850.02
04/04/91	2867.84	04/30/96	2867.30	04/11/01	2861.72	04/12/06	2855.72	04/13/11	2850.42
05/09/91	2867.91	05/15/96	2866.30	05/09/01	2861.55	05/10/06	2855.22	05/11/11	2851.02
06/07/91	2868.14	06/19/96	2865.14	06/13/01	2860.30	06/21/06	NA	06/08/11	2851.22
07/09/91	2865.47	07/10/96	2864.55	07/11/01	2859.72	07/12/06	NA	07/13/11	2848.52
08/06/91	2865.22	08/21/96	2863.30	08/08/01	2859.47	08/16/06	2851.22	08/10/11	2850.02
09/10/91	2864.14	09/11/96	2863.39	09/12/01	2858.55	09/13/06	NA	09/14/11	2850.22
10/08/91	2864.64	10/09/96	2863.30	10/10/01	2858.72	10/18/06	NA	10/12/11	2850.72
11/12/91	2865.06	11/13/96	2864.39	11/20/01	2858.82	11/15/06	2851.22	11/09/11	2849.22
12/10/91	2866.31	12/18/96	2865.22	12/13/01	2860.97	12/20/06	NA	12/14/11	2849.72
01/14/92	2867.05	01/08/97	2865.47	01/09/02	2860.72	01/10/07	2851.42		
02/11/92	2867.47	02/12/97	2866.22	02/13/02	2861.72	02/13/07	2851.22		
03/10/92	2867.80	03/12/97	2865.97	03/13/02	2862.05	03/14/07	2850.82		
04/14/92	2867.55	04/09/97	2865.22	04/10/02	2861.22	04/18/07	2851.02		
05/12/92	2867.55	05/14/97	2864.55	05/08/02	2861.22	05/16/07	NA		
06/09/92	2866.47	06/11/97	2863.22	06/12/02	2860.22	06/13/07	2849.72		
07/14/92	2867.14	07/09/97	2863.14	07/10/02	2859.62	07/11/07	2849.72		
08/11/92	2866.80	08/13/97	2861.22	08/14/02	2858.72	08/08/07	2844.22		
09/10/92	2866.89	09/10/97	2861.06	09/11/02	2858.47	09/19/07	2845.22		
10/13/92	2866.89	10/08/97	2861.39	10/09/02	2858.97	10/10/07	2845.22		
11/10/92	2870.22	11/12/97	2861.30	11/13/02	2859.52	11/14/07	2846.22		
12/08/92	2869.39	12/10/97	2862.05	12/11/02	2856.52	12/12/07	2848.22		
01/12/93	2871.22	01/14/98	2862.80	01/08/03	2857.22	01/09/08	2848.72		
02/09/93	2870.14	02/11/98	2862.72	02/12/03	2857.62	02/27/08	2850.42		
03/09/93	2870.39	03/11/98	2861.64	03/12/03	2858.22	03/12/08	2851.22		
04/13/93	2870.30	04/08/98	2862.89	04/09/03	2858.22	04/22/08	2851.92		
05/12/93	2870.22	05/13/98	2863.30	05/21/03	2858.72	05/12/08	2851.22		
06/09/93	2869.55	06/10/98	2862.64	06/11/03	2858.02	06/11/08	NA		
07/14/93	2868.39	07/08/98	2861.22	07/16/03	NA	07/09/08	2850.22		
08/11/93	2866.55	08/12/98	2859.80	08/13/03	2856.22	08/27/08	NA		
09/13/93	2867.22	09/09/98	2859.30	09/10/03	2855.92	09/10/08	NA		
10/12/93	2867.55	10/20/98	2859.22	10/08/03	2855.92	10/15/08	2849.02		
11/08/93	2868.05	11/17/98	2860.55	11/12/03	2856.22	11/12/08	2845.22		
12/08/93	2868.47	12/15/98	2858.30	12/10/03	2856.02	12/17/08	NA		
01/12/94	2869.72	01/12/99	2860.47	01/14/04	2857.42	01/14/09	2851.72		
02/09/94	2870.14	02/11/99	2857.47	02/18/04	2857.92	02/11/09	2852.52		
03/09/94	2870.30	03/16/99	2860.64	03/10/04	NA	03/11/09	2851.32		
04/13/94	2870.05	04/14/99	2860.72	04/14/04	2858.22	04/23/09	2847.42		
05/11/94	2869.80	05/12/99	2856.22	05/12/04	2857.52	05/13/09	NA		
06/09/94	2868.22	06/09/99	2859.39	06/16/04	NA	06/09/09	NA		
07/13/94	2868.88	07/14/99	2859.22	07/21/04	2856.22	07/08/09	2850.92		
08/10/94	2868.22	08/11/99	2857.22	08/11/04	2855.42	08/19/09	NA		
09/14/94	2867.39	09/15/99	2858.22	09/08/04	NA	09/16/09	2849.52		
10/12/94	2866.72	10/13/99	2857.22	10/12/04	NA	10/14/09	NA		
11/09/94	2867.47	11/17/99	2857.07	11/17/04	NA	11/12/09	NA		
12/14/94	2868.64	12/08/99	2861.62	12/07/04	2856.82	12/16/09	2849.22		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: HDWD #24
LOCATION: 02N/05E-24H
ELEVATION: 3,282.82

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3282.82	01/11/95	3007.44	01/19/00	3000.24	01/11/05	2997.32	01/14/10	2983.42
02/06/90	3019.02	02/08/95	3007.67	02/14/00	3000.82	02/15/05	2994.87	02/17/10	2985.73
03/06/90	3020.40	03/08/95	3006.52	03/08/00	3000.28	03/09/05	2992.92	03/17/10	2985.73
04/10/90	3018.44	04/19/95	3006.98	04/12/00	3000.28	04/01/05	NA	04/14/10	2983.42
05/02/90	3018.65	05/10/95	3006.52	05/10/00	3000.74	05/18/05	NA	05/12/10	2983.42
06/05/90	3019.42	06/14/95	3006.52	06/14/00	3000.28	06/01/05	NA	06/10/10	2988.04
07/03/90	3019.07	07/12/95	3006.06	07/18/00	3001.67	07/13/05	NA	07/14/10	2985.73
08/07/90	3019.32	08/30/95	3006.52	08/09/00	3000.28	08/17/05	2994.92	08/19/10	2990.35
09/12/90	3019.07	09/13/95	3006.52	09/27/00	2999.82	09/13/05	2994.92	09/08/10	2988.04
10/02/90	3019.32	10/11/95	3006.52	10/11/00	2999.12	10/20/05	NA	10/13/10	2990.35
11/06/90	3018.99	11/08/95	3005.13	11/08/00	2997.97	11/22/05	2990.52	11/17/10	2990.35
12/04/90	3020.82	12/27/95	3003.75	12/12/00	2998.43	12/21/05	2994.92	12/16/10	2988.04
01/08/91	3022.49	01/10/96	2985.05 [1]	01/10/01	2997.97	01/11/06	2990.52	01/12/11	2990.35
02/06/91	3018.82	02/14/96	3003.75	02/14/01	2997.97	02/07/06	2996.82	02/09/11	2988.04
03/07/91	3018.82	03/13/96	3003.75	03/14/01	2999.82	03/08/06	2996.82	03/09/11	2990.35
04/04/91	3019.05	04/30/96	3002.36	04/11/01	3000.28	04/12/06	2996.82	04/13/11	2988.82
05/09/91	3018.82	05/15/96	3003.05	05/09/01	3003.82	05/10/06	2996.82	05/11/11	2990.82
06/07/91	3018.49	06/19/96	3002.36	06/13/01	3002.36	06/21/06	NA	06/08/11	2995.82
07/09/91	3018.90	07/10/96	3001.90	07/11/01	2999.59	07/12/06	NA	07/13/11	2991.82
08/06/91	3019.32	08/21/96	3002.36	08/08/01	2995.43	08/16/06	2996.82	08/10/11	2992.66
09/10/91	3018.74	09/11/96	3000.98	09/12/01	2994.97	09/13/06	NA	09/14/11	2988.04
10/08/91	3018.32	10/09/96	3000.51	10/10/01	2994.97	10/18/06	NA	10/12/11	2990.35
11/12/91	3018.74	11/13/96	2999.13	11/20/01	2996.97	11/15/06	2996.82	11/09/11	2990.35
12/10/91	3014.66	12/18/96	3000.98	12/13/01	2995.44	12/20/06	2996.82	12/14/11	2992.72
01/14/92	3018.90	01/08/97	3001.90	01/09/02	2996.82	01/10/07	2996.82		
02/11/92	3018.90	02/12/97	3001.21	02/13/02	2996.13	02/13/07	NA		
03/10/92	3018.82	03/12/97	3001.90	03/13/02	2994.51	03/14/07	3011.11 [1]		
04/14/92	3018.82	04/09/97	2999.59	04/10/02	2994.51	04/18/07	2997.82		
05/12/92	3018.65	05/14/97	2999.59	05/08/02	2994.51	05/16/07	2996.82		
06/09/92	3018.40	06/11/97	2996.12	06/12/02	2992.66	06/13/07	3000.62		
07/14/92	3018.49	07/09/97	2999.13	07/10/02	2998.42	07/11/07	2992.62		
08/11/92	3019.49	08/13/97	3001.67	08/14/02	NA	08/08/07	2990.42		
09/10/92	3019.82	09/10/97	3001.67	09/11/02	3001.90	09/19/07	NA		
10/13/92	3019.82	10/08/97	3000.74	10/09/02	2999.59	10/10/07	2987.82		
11/10/92	3019.90	11/12/97	2999.36	11/13/02	2999.57	11/14/07	2994.82		
12/08/92	NA	12/10/97	2999.13	12/11/02	2999.59	12/12/07	2990.82		
01/12/93	3019.92	01/14/98	2998.20	01/08/03	3003.62	01/09/08	2994.82		
02/09/93	3019.92	02/11/98	2998.43	02/12/03	3003.62	02/27/08	2994.82		
03/09/93	3019.92	03/11/98	2997.28	03/12/03	3003.62	03/12/08	2994.82		
04/13/93	3019.92	04/08/98	2996.12	04/09/03	3003.62	04/22/08	2994.82		
05/12/93	3020.61	05/13/98	2997.74	05/21/03	3003.62	05/12/08	2994.82		
06/09/93	3020.15	06/10/98	2997.74	06/11/03	2997.32	06/11/08	2994.82		
07/14/93	3019.92	07/08/98	2997.28	07/16/03	2997.32	07/09/08	2994.82		
08/11/93	3020.42	08/12/98	2996.36	08/13/03	NA	08/27/08	2994.82		
09/13/93	3019.46	09/09/98	2996.82	09/10/03	2995.02	09/10/08	2990.35		
10/12/93	3018.52	10/20/98	2995.89	10/08/03	2997.32	10/15/08	2990.35		
11/08/93	3017.61	11/17/98	2997.28	11/12/03	2997.32	11/12/08	2990.35		
12/08/93	3018.07	12/15/98	2998.42	12/10/03	2997.32	12/2008	2992.66		
01/12/94	3013.91	01/12/99	2997.82	01/14/04	2997.32	01/14/09	2990.35		
02/09/94	3012.53	02/11/99	2997.22	02/18/04	2997.32	02/11/09	2992.62		
03/09/94	3011.83	03/16/99	2996.12	03/10/04	2997.32	03/11/09	2992.82		
04/13/94	3012.29	04/14/99	2993.81	04/14/04	2997.32	04/22/09	2992.66		
05/11/94	3011.14	05/12/99	2997.28	05/12/04	2997.32	05/13/09	2994.97		
06/09/94	3011.83	06/09/99	2997.74	06/16/04	2997.32	06/09/09	2992.62		
07/13/94	3011.60	07/14/99	2995.89	07/21/04	2994.97	07/08/09	2992.62		
08/10/94	3016.91	08/11/99	2996.12	08/11/04	2994.97	08/19/09	2990.35		
09/14/94	3011.14	09/15/99	2994.97	09/08/04	2994.97	09/16/09	2990.35		
10/12/94	3011.14	10/13/99	2993.58	10/12/04	2994.97	10/14/09	2985.73		
11/09/94	3008.83	11/17/99	2993.12	11/17/04	2994.87	11/12/09	2983.42		
12/14/94	3007.67	12/08/99	2993.81	12/07/04	2994.92	12/16/09	2983.42		

1. This value reported for Mainstream Well appears to be an aberation and may not be indicative of the actual water level in Mainstream during this month. This value has not been included on the Mainstream well hydrograph, Figure 1.

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: **BDVWA #8**
LOCATION: **02N/05E-22J01S**
ELEVATION: **3,503.88**

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	3247.88	01/19/00	3242.88	01/11/05	3231.58	01/14/10	3222.88
02/06/90	NA	02/08/95	3247.88	02/14/00	3242.88	02/15/05	3229.88	02/17/10	3222.58
03/06/90	NA	03/08/95	3246.88	03/08/00	3242.88	03/09/05	3229.98	03/17/10	3226.08
04/10/90	NA	04/19/95	3247.88	04/12/00	3242.88	04/01/05	NA	04/14/10	NA
05/02/90	NA	05/10/95	3247.88	05/10/00	3242.88	05/18/05	3227.88	05/12/10	3221.78
06/05/90	NA	06/14/95	3236.88	06/14/00	3238.88	06/01/05	NA	06/10/10	3221.08
07/03/90	NA	07/12/95	3235.88	07/18/00	3238.88	07/13/05	3227.58	07/14/10	3221.48
08/07/90	NA	08/30/95	3234.88	08/09/00	3238.88	08/17/05	3226.28	08/19/10	3219.78
09/12/90	NA	09/13/95	3234.88	09/27/00	3238.88	09/13/05	3225.98	09/08/10	NA
10/02/90	NA	10/11/95	3235.88	10/11/00	3239.88	10/20/05	3225.68	10/13/10	3220.08
11/06/90	NA	11/08/95	3236.88	11/08/00	3239.88	11/22/05	3226.08	11/17/10	3221.77
12/04/90	NA	12/27/95	3236.88	12/12/00	3240.88	12/21/05	3226.88	12/16/10	3221.48
01/08/91	NA	01/10/96	3234.88	01/10/01	3240.88	01/11/06	NA	01/12/11	3219.98
02/06/91	NA	02/14/96	3235.88	02/14/01	3240.88	02/07/06	3225.68	02/09/11	3216.78
03/07/91	NA	03/13/96	3237.88	03/14/01	3240.88	03/08/06	3224.88	03/09/11	3221.68
04/04/91	NA	04/30/96	3238.88	04/11/01	3239.88	04/12/06	3222.48	04/13/11	3221.88
05/09/91	NA	05/15/96	3235.88	05/09/01	3239.88	05/10/06	3233.68 [1]	05/11/11	
06/07/91	NA	06/19/96	3234.88	06/13/01	3237.88	06/21/06	NA	06/08/11	684.88
07/09/91	NA	07/10/96	3235.88	07/11/01	3237.88	07/12/06	NA	07/13/11	3221.28
08/06/91	NA	08/21/96	3234.88	08/08/01	3237.88	08/16/06	3224.88	08/10/11	3221.78
09/10/91	NA	09/11/96	3232.88	09/12/01	3238.88	09/13/06	3224.38	09/14/11	3221.28
10/08/91	NA	10/09/96	3235.88	10/10/01	3240.88	10/18/06	3224.68	10/12/11	3223.78
11/12/91	NA	11/13/96	3234.88	11/20/01	3238.88	11/15/06	3225.58	11/09/11	3223.58
12/10/91	NA	12/18/96	3235.88	12/13/01	3238.88	12/20/06	3226.18	12/14/11	3224.38
01/14/92	3268.63	01/08/97	3235.88	01/09/02	3239.88	01/10/07	3224.38		
02/11/92	3269.88	02/12/97	3236.88	02/13/02	3240.88	02/13/07	3224.08		
03/10/92	3269.05	03/12/97	3228.88	03/13/02	3234.88	03/14/07	3227.88		
04/14/92	3267.30	04/09/97	3240.88	04/10/02	3234.88	04/18/07	3228.38		
05/12/92	3267.21	05/14/97	3240.88	05/08/02	3234.88	05/16/07	NA		
06/09/92	3266.80	06/11/97	3239.88	06/12/02	3237.18	06/13/07	3228.38		
07/14/92	NA	07/09/97	3239.88	07/10/02	3237.88	07/11/07	3226.88		
08/11/92	3263.96	08/13/97	3239.88	08/14/02	3236.88	08/08/07	3224.88		
09/10/92	3263.21	09/10/97	3239.88	09/11/02	3236.88	09/19/07	3225.08		
10/13/92	3262.05	10/08/97	3239.88	10/09/02	3236.78	10/10/07	3224.88		
11/10/92	NA	11/12/97	3239.88	11/13/02	NA	11/14/07	3225.88		
12/08/92	3261.96	12/10/97	3239.88	12/11/02	NA	12/12/07	3226.58		
01/12/93	3259.88	01/14/98	3240.88	01/08/03	3232.18	01/09/08	3225.68		
02/09/93	3259.88	02/11/98	3239.88	02/12/03	3232.28	02/27/08	3226.98		
03/09/93	3253.88	03/11/98	3240.88	03/12/03	3232.78	03/12/08	3226.68		
04/13/93	3252.88	04/08/98	3239.88	04/09/03	3232.38	04/22/08	3225.58		
05/12/93	3251.88	05/13/98	3240.88	05/21/03	3231.68	05/12/08	3225.38		
06/09/93	3248.88	06/10/98	3240.88	06/11/03	3231.48	06/11/08	3224.68		
07/14/93	3244.88	07/08/98	3240.88	07/16/03	3232.58	07/09/08	3224.78		
08/11/93	3243.88	08/12/98	3240.88	08/13/03	3229.98	08/27/08	3224.58		
09/13/93	3242.88	09/09/98	3239.88	09/10/03	3230.68	09/10/08	3223.98		
10/12/93	3245.88	10/20/98	3239.88	10/08/03	3231.88	10/15/08	NA		
11/08/93	3245.88	11/17/98	3241.88	11/12/03	NA	11/12/08	3220.98		
12/08/93	3246.88	12/15/98	3238.88	12/10/03	NA	12/17/08	NA		
01/12/94	3246.88	01/12/99	3239.88	01/14/04	3233.18	01/14/09	3226.18		
02/09/94	3246.88	02/11/99	3240.88	02/18/04	3232.88	02/11/09	3226.08		
03/09/94	3246.88	03/16/99	3241.88	03/10/04	3232.88	03/11/09	3225.88		
04/13/94	3246.88	04/14/99	3241.88	04/14/04	3231.58	04/22/09	3225.88		
05/11/94	3246.88	05/12/99	3240.88	05/12/04	3231.88	05/13/09	3225.28		
06/09/94	3246.88	06/09/99	3240.88	06/16/04	3232.38	06/09/09	3225.88		
07/13/94	3246.88	07/14/99	3240.88	07/21/04	NA	07/08/09	3225.48		
08/10/94	3241.88	08/11/99	3238.88	08/11/04	3230.78	08/19/09	3225.38		
09/14/94	3242.88	09/15/99	3238.88	09/08/04	3229.98	09/16/09	NA		
10/12/94	3242.88	10/13/99	3238.88	10/12/04	3230.88	10/14/09	3222.28		
11/09/94	3242.88	11/17/99	3238.88	11/17/04	3230.78	11/12/09	3223.48		
12/14/94	3242.88	12/08/99	3238.88	12/07/04	3230.78	12/16/09	3223.58		

1. This value reported for BVDWA #8 Well appears to be an aberation and may not be indicative of the actual water level in the well during this month.

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: **USGS WELL**
LOCATION: **02N/05E-27A**
ELEVATION: **3469.54**

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3273.04	01/11/95	3246.62	01/19/00	3238.96	01/11/05	3232.94	01/14/10	3225.54
02/06/90	3273.12	02/08/95	3246.46	02/14/00	3239.29	02/15/05	3234.04	02/17/10	3231.14
03/06/90	3273.46	03/08/95	3246.54	03/08/00	3240.21	03/09/05	3234.24	03/17/10	3230.44
04/10/90	3272.54	04/19/95	3246.37	04/12/00	3238.88	04/01/05	NA	04/14/10	NA
05/02/90	3272.71	05/10/95	3246.37	05/10/00	3238.96	05/18/05	3230.44	05/12/10	3229.34
06/05/90	3273.04	06/14/95	3244.21	06/14/00	3238.71	06/01/05	NA	06/10/10	3228.54
07/03/90	3272.71	07/12/95	3244.46	07/18/00	3238.21	07/13/05	3230.54	07/14/10	3228.74
08/07/90	3272.16	08/30/95	3244.46	08/09/00	3238.96	08/17/05	3230.44	08/19/10	3228.34
09/12/90	3271.71	09/13/95	3243.37	09/27/00	3239.54	09/13/05	3230.14	09/08/10	NA
10/02/90	3272.71	10/11/95	3241.12	10/11/00	3238.38	10/20/05	3232.34	10/13/10	3228.34
11/06/90	3272.79	11/08/95	3241.21	11/08/00	3238.12	11/22/05	3232.64	11/17/10	3228.44
12/04/90	3273.54	12/27/95	3241.21	12/12/00	3239.54	12/21/05	3232.14	12/16/10	3228.54
01/08/91	3275.29	01/10/96	3241.37	01/10/01	3238.29	01/11/06	3231.94	01/12/11	3228.54
02/06/91	3272.34	02/14/96	3239.87	02/14/01	3238.79	02/07/06	3230.74	02/09/11	3228.64
03/07/91	3273.54	03/13/96	3240.12	03/14/01	3238.37	03/08/06	3230.74	03/09/11	3228.64
04/04/91	3272.35	04/30/96	3239.96	04/11/01	3238.37	04/12/06	3230.74	04/13/11	3228.74
05/09/91	3272.12	05/15/96	3239.79	05/09/01	3241.64	05/10/06	3231.64	05/11/11	3229.44
06/07/91	3272.13	06/19/96	3239.62	06/13/01	3236.79	06/21/06	NA	06/08/11	3230.04
07/09/91	3271.79	07/10/96	3239.62	07/11/01	3239.54	07/12/06	NA	07/13/11	3230.04
08/06/91	3271.71	08/21/96	3239.71	08/08/01	3238.54	08/16/06	3231.34	08/10/11	3229.44
09/10/91	3271.38	09/11/96	3237.21	09/12/01	3238.54	09/13/06	3231.44	09/14/11	3229.34
10/08/91	3271.13	10/09/96	3239.71	10/10/01	3238.37	10/18/06	3229.34	10/12/11	3229.44
11/12/91	3271.04	11/13/96	3237.46	11/20/01	3238.04	11/15/06	3230.24	11/09/11	3229.44
12/10/91	3271.21	12/18/96	3237.79	12/13/01	3238.54	12/20/06	3229.94	12/14/11	3229.44
01/14/92	3271.12	01/08/97	3237.87	01/09/02	3239.54	01/10/07	3230.14		
02/11/92	3271.21	02/12/97	3237.79	02/13/02	3239.04	02/13/07	3229.74		
03/10/92	3271.21	03/12/97	3237.62	03/13/02	3238.62	03/14/07	3230.44		
04/14/92	3270.96	04/09/97	3238.62	04/10/02	3238.54	04/18/07	3229.74		
05/12/92	3270.54	05/14/97	3238.46	05/08/02	3238.29	05/16/07	3229.74		
06/09/92	3269.79	06/11/97	3238.37	06/12/02	3238.54	06/13/07	3230.14		
07/14/92	3267.62	07/09/97	3238.46	07/10/02	3238.84	07/11/07	3231.44		
08/11/92	3267.29	08/13/97	3238.38	08/14/02	3238.54	08/08/07	3229.94		
09/10/92	3266.21	09/10/97	3238.12	09/11/02	3239.54	09/19/07	3230.54		
10/13/92	3264.54	10/08/97	3238.21	10/09/02	3236.44	10/10/07	3230.44		
11/10/92	3264.29	11/12/97	3237.71	11/13/02	3237.54	11/14/07	3229.64		
12/08/92	3263.54	12/18/96	3237.79	12/11/02	3234.84	12/12/07	3231.14		
01/12/93	3262.62	01/14/98	3238.54	01/08/03	3235.04	01/09/08	3230.44		
02/09/93	3260.12	02/11/98	3238.54	02/12/03	3236.14	02/27/08	3232.34		
03/09/93	3259.37	03/11/98	3238.71	03/12/03	3235.04	03/12/08	3228.54		
04/13/93	3258.21	04/08/98	3237.88	04/09/03	3235.04	04/22/08	3230.54		
05/12/93	3256.96	05/13/98	3238.71	05/21/03	3234.74	05/12/08	3230.34		
06/09/93	3255.71	06/10/98	3238.54	06/11/03	3236.04	06/11/08	3229.74		
07/14/93	3254.54	07/08/98	3238.96	07/16/03	3236.04	07/09/08	3229.64		
08/11/93	3253.54	08/12/98	3238.37	08/13/03	3233.74	08/27/08	3229.54		
09/13/93	3252.46	09/09/98	3238.21	09/10/03	3233.74	09/10/08	3229.64		
10/12/93	3251.71	10/20/98	3237.88	10/08/03	3233.64	10/15/08	3229.24		
11/08/93	3251.04	11/17/98	3238.46	11/12/03	3233.54	11/12/08	3226.94		
12/08/93	3250.71	12/15/98	3238.46	12/10/03	3234.74	12/17/08	NA		
01/12/94	3249.62	01/12/99	3238.54	01/14/04	3234.04	01/14/09	3229.54		
02/09/94	3249.37	02/11/99	3238.37	02/18/04	3234.04	02/11/09	3229.64		
03/09/94	3249.29	03/16/99	3238.79	03/10/04	3234.54	03/11/09	3230.04		
04/13/94	3249.21	04/14/99	3238.46	04/14/04	3233.94	04/22/09	3229.84		
05/11/94	3248.79	05/12/99	3238.04	05/12/04	3233.74	05/13/09	3229.64		
06/09/94	3248.62	06/09/99	3238.29	06/16/04	3233.64	06/09/09	3229.74		
07/13/94	3247.37	07/14/99	3238.54	07/21/04	3233.44	07/08/09	3230.14		
08/10/94	3248.54	08/11/99	3238.29	08/11/04	3234.04	08/19/09	3230.04		
09/14/94	3247.54	09/15/99	3238.04	09/08/04	3234.34	09/16/09	NA		
10/12/94	3246.71	10/13/99	3237.79	10/12/04	3232.74	10/14/09	3228.14		
11/09/94	3246.79	11/17/99	3237.79	11/17/04	3233.74	11/12/09	3227.34		
12/14/94	3248.21	12/08/99	3238.04	12/07/04	3184.14 [1]	12/16/09	3227.94		

1. This value reported for USGS Test Well appears to be an aberation and may not be indicative of the actual water level in USGS Test Well during this month. This value has not been included on the USGS Test Well hydrograph, Figure 2.

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: **BDVWA #3**
LOCATION: **02N/05E-27J02**
ELEVATION: **3468.34**

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3270.84	01/11/95	3244.17	01/19/00	3237.41	01/11/05	3231.54	01/14/10	3225.34
02/06/90	3271.01	02/08/95	3243.42	02/14/00	3237.34	02/15/05	3231.44	02/17/10	3226.54
03/06/90	3271.42	03/08/95	3243.34	03/08/00	3237.34	03/09/05	3231.54	03/17/10	3227.34
04/10/90	3271.34	04/19/95	3243.59	04/12/00	3237.34	04/01/05	NA	04/14/10	NA
05/02/90	3271.26	05/10/95	3244.34	05/10/00	3237.42	05/18/05	3231.84	05/12/10	3228.14
06/05/90	3270.84	06/14/95	3243.51	06/14/00	3237.42	06/01/05	NA	06/10/10	3228.04
07/03/90	3270.17	07/12/95	3243.26	07/18/00	3236.01	07/13/05	3231.14	07/14/10	3227.94
08/07/90	3269.67	08/30/95	3237.17	08/09/00	3236.09	08/17/05	3232.24	08/19/10	3228.14
09/12/90	3270.01	09/13/95	3236.42	09/27/00	3236.01	09/13/05	3231.94	09/08/10	NA
10/02/90	3270.67	10/11/95	3240.51	10/11/00	3235.84	10/20/05	3232.04	10/13/10	3228.24
11/06/90	3270.92	11/08/95	3233.42	11/08/00	3235.92	11/22/05	3233.34	11/17/10	3227.24
12/04/90	3271.26	12/27/95	3240.34	12/12/00	3236.09	12/21/05	NA	12/16/10	3228.34
01/08/91	3273.09	01/10/96	3240.26	01/10/01	3235.92	01/11/06	3230.44	01/12/11	3228.34
02/06/91	3270.44	02/14/96	3234.17	02/14/01	3235.68	02/07/06	3229.74	02/09/11	3228.44
03/07/91	3271.84	03/13/96	3232.34	03/14/01	3236.17	03/08/06	3229.54	03/09/11	3228.44
04/04/91	3270.13	04/30/96	3231.92	04/11/01	3237.34	04/12/06	3229.44	04/13/11	3228.44
05/09/91	3269.68	05/15/96	3229.51	05/09/01	3237.34	05/10/06	3229.34	05/11/11	3227.34
06/07/91	3269.68	06/19/96	3229.34	06/13/01	3236.01	06/21/06	NA	06/08/11	3226.34
07/09/91	3269.43	07/10/96	3234.84	07/11/01	3238.42	07/12/06	NA	07/13/11	3228.24
08/06/91	3269.26	08/21/96	3229.67	08/08/01	3236.59	08/16/06	3225.34	08/10/11	3227.34
09/10/91	3269.01	09/11/96	3235.59	09/12/01	3235.34	09/13/06	3226.04	09/14/11	3228.14
10/08/91	3269.26	10/09/96	3232.67	10/10/01	3232.84	10/18/06	3226.34	10/12/11	3227.84
11/12/91	3267.84	11/13/96	3236.26	11/20/01	3235.09	11/15/06	3227.04	11/09/11	3227.34
12/10/91	3269.34	12/18/96	3236.42	12/13/01	3235.49	12/20/06	3227.94	12/14/11	3228.24
01/14/92	3269.67	01/08/97	3236.67	01/09/02	NA	01/10/07	3228.34		
02/11/92	3269.67	02/12/97	3236.01	02/13/02	3236.34	02/13/07	3223.94		
03/10/92	3270.59	03/12/97	3236.84	03/13/02	3236.67	03/14/07	3225.54		
04/14/92	3268.59	04/09/97	3237.17	04/10/02	3234.42	04/18/07	3225.34		
05/12/92	3266.76	05/14/97	3234.34	05/08/02	3235.84	05/16/07	3226.34		
06/09/92	3266.18	06/11/97	3237.26	06/12/02	3237.14	06/13/07	3225.34		
07/14/92	3264.34	07/09/97	3233.26	07/10/02	3235.34	07/11/07	3225.94		
08/11/92	3263.84	08/13/97	3233.42	08/14/02	3234.09	08/08/07	3226.74		
09/10/92	3261.42	09/10/97	3232.69	09/11/02	3235.09	09/19/07	3222.94		
10/13/92	3256.34	10/08/97	3236.76	10/09/02	3233.34	10/10/07	3223.24		
11/10/92	3256.34	11/12/97	3236.84	11/13/02	3237.74	11/14/07	3227.74		
12/08/92	3255.42	12/10/97	3235.51	12/11/02	3233.84	12/12/07	3227.14		
01/12/93	3256.76	01/14/98	3236.01	01/08/03	3234.04	01/09/08	3226.14		
02/09/93	3254.34	02/11/98	3236.84	02/12/03	3233.94	02/27/08	3227.94		
03/09/93	3253.17	03/11/98	3237.51	03/12/03	3235.64	03/12/08	3222.34		
04/13/93	3256.92	04/08/98	3235.59	04/09/03	3236.14	04/22/08	3227.74		
05/12/93	3254.42	05/13/98	3237.01	05/21/03	3233.34	05/12/08	3227.34		
06/09/93	3252.92	06/10/98	3236.42	06/11/03	3231.54	06/11/08	3227.94		
07/14/93	3250.09	07/08/98	3238.42	07/16/03	3232.04	07/09/08	3225.94		
08/11/93	3248.51	08/12/98	3233.92	08/13/03	3230.34	08/27/08	3225.84		
09/13/93	3248.51	09/09/98	3234.42	09/10/03	3232.34	09/10/08	3226.14		
10/12/93	3247.51	10/20/98	3234.68	10/08/03	3231.24	10/15/08	3226.24		
11/08/93	3249.51	11/17/98	3237.26	11/12/03	3231.34	11/12/08	3225.34		
12/08/93	3249.34	12/15/98	3235.67	12/10/03	3230.94	12/17/08	NA		
01/12/94	3245.34	01/12/99	3236.01	01/14/04	3231.24	01/14/09	3226.64		
02/09/94	3241.51	02/11/99	3235.26	02/18/04	3231.84	02/11/09	3227.44		
03/09/94	3247.42	03/16/99	3237.76	03/10/04	3232.64	03/11/09	3227.34		
04/13/94	3248.26	04/14/99	3237.34	04/14/04	3232.44	04/22/09	3226.94		
05/11/94	3241.51	05/12/99	3237.01	05/12/04	3229.34	05/13/09	3226.94		
06/09/94	3241.84	06/09/99	3236.59	06/16/04	3230.24	06/09/09	3226.34		
07/13/94	3241.59	07/14/99	3237.52	07/21/04	3231.54	07/08/09	3226.64		
08/10/94	3246.50	08/11/99	3237.26	08/11/04	3230.64	08/19/09	3227.14		
09/14/94	3238.51	09/15/99	3237.34	09/08/04	3230.64	09/16/09	NA		
10/12/94	3238.84	10/13/99	3237.01	10/12/04	3230.34	10/14/09	3224.84		
11/09/94	3245.34	11/17/99	3237.01	11/17/04	3231.64	11/12/09	3225.34		
12/14/94	3244.26	12/08/99	3237.26	12/07/04	3231.84	12/16/09	3225.14		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: **BDVWA #2**
LOCATION: **02N/05E-27J01**
ELEVATION: **3465.31**

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3271.01	01/11/95	3244.23	01/19/00	3237.39	01/11/05	3231.41	01/14/10	NA
02/06/90	3271.06	02/08/95	3243.56	02/14/00	3237.98	02/15/05	3231.81	02/17/10	3227.31
03/06/90	3271.23	03/08/95	3243.48	03/08/00	3237.31	03/09/05	3231.91	03/17/10	3227.51
04/10/90	3271.23	04/19/95	3243.64	04/12/00	3237.31	04/01/05	NA	04/14/10	NA
05/02/90	3271.23	05/10/95	3244.39	05/10/00	3237.39	05/18/05	3231.21	05/12/10	3227.91
06/05/90	3271.06	06/14/95	3244.31	06/14/00	3237.64	06/01/05	NA	06/10/10	3227.91
07/03/90	3270.31	07/12/95	3243.31	07/18/00	3235.81	07/13/05	3230.31	07/14/10	3227.61
08/07/90	3270.06	08/30/95	3237.64	08/09/00	3235.98	08/17/05	3231.31	08/19/10	3228.01
09/12/90	3270.14	09/13/95	3236.81	09/27/00	3237.89	09/13/05	3230.81	09/08/10	NA
10/02/90	3270.64	10/11/95	3240.64	10/11/00	3237.31	10/20/05	3230.81	10/13/10	3228.21
11/06/90	3270.81	11/08/95	3233.98	11/08/00	3236.06	11/22/05	3231.01	11/17/10	3228.11
12/04/90	3270.98	12/27/95	3239.98	12/12/00	3236.81	12/21/05	3230.31	12/16/10	3228.21
01/08/91	3272.81	01/10/96	3240.06	01/10/01	3236.81	01/11/06	3230.51	01/12/11	3228.31
02/06/91	3270.01	02/14/96	3234.98	02/14/01	3235.81	02/07/06	3229.71	02/09/11	3228.31
03/07/91	3272.06	03/13/96	3233.06	03/14/01	3236.31	03/08/06	3229.61	03/09/11	3228.31
04/04/91	3270.31	04/30/96	3232.81	04/11/01	3237.31	04/12/06	3229.31	04/13/11	3229.31
05/09/91	3269.73	05/15/96	3230.39	05/09/01	3237.31	05/10/06	3229.41	05/11/11	3227.31
06/07/91	3269.81	06/19/96	3230.23	06/13/01	3235.98	06/21/06	NA	06/08/11	3226.31
07/09/91	3269.64	07/10/96	3234.81	07/11/01	3236.47	07/12/06	NA	07/13/11	3227.81
08/06/91	3269.31	08/21/96	3230.81	08/08/01	3237.14	08/16/06	3225.41	08/10/11	3227.31
09/10/91	3269.23	09/11/96	3235.64	09/12/01	3235.39	09/13/06	3226.11	09/14/11	3227.11
10/08/91	3269.31	10/09/96	3233.39	10/10/01	3234.73	10/18/06	3227.01	10/12/11	3228.11
11/12/91	3269.23	11/13/96	3236.64	11/20/01	3235.31	11/15/06	3227.21	11/09/11	3227.31
12/10/91	3269.31	12/18/96	3236.31	12/13/01	3235.31	12/20/06	3227.91	12/14/11	3228.21
01/14/92	3269.81	01/08/97	3236.23	01/09/02	3233.31	01/10/07	3228.31		
02/11/92	3269.81	02/12/97	3236.14	02/13/02	3236.31	02/13/07	3227.31		
03/10/92	3270.14	03/12/97	3236.31	03/13/02	3236.23	03/14/07	3225.31		
04/14/92	3268.73	04/09/97	3237.14	04/10/02	3234.89	04/18/07	3225.61		
05/12/92	3266.98	05/14/97	3234.39	05/08/02	3235.81	05/16/07	3226.91		
06/09/92	3266.23	06/11/97	3237.14	06/12/02	3237.06	06/13/07	3225.51		
07/14/92	3264.56	07/09/97	3233.34	07/10/02	3235.71	07/11/07	3226.31		
08/11/92	3263.81	08/13/97	3233.81	08/14/02	3234.31	08/08/07	3226.91		
09/10/92	3261.73	09/10/97	3233.31	09/11/02	3235.21	09/19/07	3226.41		
10/13/92	3256.81	10/08/97	3235.81	10/09/02	3233.56	10/10/07	3226.11		
11/10/92	3257.31	11/12/97	3236.98	11/13/02	3234.71	11/14/07	3226.61		
12/08/92	3255.31	12/10/97	3235.64	12/11/02	3234.01	12/12/07	3227.31		
01/12/93	3255.56	01/14/98	3235.39	01/08/03	3233.91	01/09/08	3227.21		
02/09/93	3254.73	02/11/98	3236.81	02/12/03	3233.81	02/27/08	3227.61		
03/09/93	3253.48	03/11/98	3237.73	03/12/03	3232.61	03/12/08	3226.31		
04/13/93	3257.06	04/08/98	3235.73	04/09/03	3233.11	04/22/08	3227.31		
05/12/93	3254.23	05/13/98	3236.65	05/21/03	3233.11	05/12/08	3227.01		
06/09/93	3253.31	06/10/98	3237.56	06/11/03	3231.71	06/11/08	3227.71		
07/14/93	3250.48	07/08/98	3237.31	07/16/03	3232.21	07/09/08	3225.41		
08/11/93	3249.14	08/12/98	3234.31	08/13/03	3230.41	08/27/08	3224.31		
09/13/93	3248.39	09/09/98	3234.65	09/10/03	3232.11	09/10/08	3226.41		
10/12/93	3248.06	10/20/98	3233.98	10/08/03	3231.31	10/15/08	3226.41		
11/08/93	3249.39	11/17/98	3237.14	11/12/03	3231.41	11/12/08	3225.71		
12/08/93	3249.56	12/15/98	3235.81	12/10/03	3231.31	12/17/08	NA		
01/12/94	3245.31	01/12/99	3235.31	01/14/04	3231.41	01/14/09	3226.51		
02/09/94	3242.31	02/11/99	3234.98	02/18/04	3231.81	02/11/09	3227.41		
03/09/94	3247.48	03/16/99	3237.64	03/10/04	3232.61	03/11/09	3227.31		
04/13/94	3248.31	04/14/99	3236.56	04/14/04	3232.81	04/22/09	3227.01		
05/11/94	3243.31	05/12/99	3236.81	05/12/04	3229.51	05/13/09	3226.81		
06/09/94	3243.48	06/09/99	3236.39	06/16/04	3230.31	06/09/09	3225.51		
07/13/94	3243.39	07/14/99	3237.39	07/21/04	3231.91	07/08/09	3226.81		
08/10/94	3247.16	08/11/99	3237.06	08/11/04	3230.71	08/19/09	3226.81		
09/14/94	3239.39	09/15/99	3236.98	09/08/04	3231.11	09/16/09	NA		
10/12/94	3239.73	10/13/99	3236.39	10/12/04	3230.51	10/14/09	3225.01		
11/09/94	3245.48	11/17/99	3237.23	11/17/04	3231.91	11/12/09	3225.41		
12/14/94	3245.23	12/08/99	3236.81	12/07/04	3231.41	12/16/09	3225.51		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: BDVWA #4
LOCATION: 02N/05E-27R
ELEVATION: 3470.17

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3275.07	01/11/95	3245.25	01/19/00	3239.17	01/11/05	NA	01/14/10	3230.27
02/06/90	3275.17	02/08/95	3244.34	02/14/00	3238.67	02/15/05	3254.17	02/17/10	3230.87
03/06/90	3274.92	03/08/95	3244.42	03/08/00	3238.59	03/09/05	3254.17	03/17/10	3230.27
04/10/90	3274.17	04/19/95	3244.59	04/12/00	3238.59	04/01/05	NA	04/14/10	NA
05/02/90	3274.34	05/10/95	3243.17	05/10/00	3238.17	05/18/05	NA	05/12/10	3231.57
06/05/90	3274.34	06/14/95	3244.34	06/14/00	3238.09	06/01/05	NA	06/10/10	3231.77
07/03/90	3273.84	07/12/95	3244.25	07/18/00	3239.01	07/13/05	NA	07/14/10	3231.87
08/07/90	3273.00	08/30/95	3244.00	08/09/00	3239.50	08/17/05	NA	08/19/10	3232.07
09/12/90	3272.84	09/13/95	3243.09	09/27/00	3239.17	09/13/05	NA	09/08/10	NA
10/02/90	3273.09	10/11/95	3242.25	10/11/00	3239.17	10/20/05	NA	10/13/10	3232.07
11/06/90	3273.50	11/08/95	3240.09	11/08/00	3239.17	11/22/05	3231.97	11/17/10	3233.07
12/04/90	3274.42	12/27/95	3239.67	12/12/00	3239.64	12/21/05	NA	12/16/10	3232.37
01/08/91	3277.10	01/10/96	3239.50	01/10/01	3240.33	01/11/06	NA	01/12/11	3232.27
02/06/91	3273.57	02/14/96	3237.09	02/14/01	3239.51	02/07/06	3230.07	02/09/11	3232.27
03/07/91	3275.57	03/13/96	3238.09	03/14/01	3240.42	03/08/06	3230.77	03/09/11	3232.67
04/04/91	3273.50	04/30/96	3237.50	04/11/01	3239.17	04/12/06	3230.67	04/13/11	3232.77
05/09/91	3273.26	05/15/96	3236.34	05/09/01	3238.92	05/10/06	3231.37	05/11/11	3233.17
06/07/91	3272.76	06/19/96	3236.00	06/13/01	3237.25	06/21/06	NA	06/08/11	3233.17
07/09/91	3272.26	07/10/96	3237.42	07/11/01	3239.30	07/12/06	NA	07/13/11	3233.07
08/06/91	3272.01	08/21/96	3237.17	08/08/01	3239.25	08/16/06	3230.67	08/10/11	3233.17
09/10/91	3271.84	09/11/96	3236.17	09/12/01	3239.84	09/13/06	3230.17	09/14/11	3232.97
10/08/91	3271.84	10/09/96	3237.59	10/10/01	3238.09	10/18/06	3230.07	10/12/11	3233.07
11/12/91	3272.01	11/13/96	3236.92	11/20/01	3238.67	11/15/06	3229.77	11/09/11	3232.67
12/10/91	3272.51	12/18/96	3237.17	12/13/01	3238.67	12/20/06	3229.77	12/14/11	3232.87
01/14/92	3272.67	01/08/97	3237.34	01/09/02	3239.17	01/10/07	3230.27		
02/11/92	3272.84	02/12/97	3239.84	02/13/02	3239.17	02/13/07	3230.17		
03/10/92	3272.42	03/12/97	3239.17	03/13/02	3239.09	03/14/07	3227.47		
04/14/92	3271.50	04/09/97	3238.34	04/10/02	3236.51	04/18/07	3229.27		
05/12/92	3270.25	05/14/97	3239.50	05/08/02	3237.92	05/16/07	3228.97		
06/09/92	3268.67	06/11/97	3239.34	06/12/02	3237.67	06/13/07	3229.07		
07/14/92	3266.67	07/09/97	3239.42	07/10/02	3236.97	07/11/07	3229.37		
08/11/92	3266.09	08/13/97	3239.09	08/14/02	3238.42	08/08/07	3230.07		
09/10/92	3264.17	09/10/97	3239.37	09/11/02	3239.17	09/19/07	3225.57		
10/13/92	3261.42	10/08/97	3239.25	10/09/02	3237.17	10/10/07	3225.97		
11/10/92	3261.17	11/12/97	3239.34	11/13/02	NA	11/14/07	3228.87		
12/08/92	3260.09	12/10/97	3239.67	12/11/02	3237.17	12/12/07	3228.77		
01/12/93	3260.17	01/14/98	3239.84	01/08/03	3235.37	01/09/08	3228.57		
02/09/93	3260.17	02/11/98	3239.59	02/12/03	3235.17	02/27/08	3228.97		
03/09/93	NA	03/11/98	3240.42	03/12/03	3235.47	03/12/08	3228.97		
04/13/93	3257.00	04/08/98	3240.67	04/09/03	3236.97	04/22/08	3229.57		
05/12/93	3257.00	05/13/98	3240.09	05/21/03	3235.87	05/12/08	3229.37		
06/09/93	3254.84	06/10/98	3240.84	06/11/03	3236.17	06/11/08	3230.67		
07/14/93	3254.09	07/08/98	3239.59	07/16/03	NA	07/09/08	3230.27		
08/11/93	3254.17	08/12/98	3240.84	08/13/03	NA	08/27/08	3230.17		
09/13/93	3254.09	09/09/98	3241.17	09/10/03	NA	09/10/08	3230.17		
10/12/93	3253.01	10/20/98	3241.25	10/08/03	NA	10/15/08	3230.37		
11/08/93	3250.09	11/17/98	3238.59	11/12/03	NA	11/12/08	3230.27		
12/08/93	3250.00	12/15/98	3241.67	12/10/03	NA	12/17/08	NA		
01/12/94	3248.84	01/12/99	3240.59	01/14/04	NA	01/14/09	3230.37		
02/09/94	3248.50	02/11/99	3239.09	02/18/04	NA	02/11/09	3231.07		
03/09/94	3248.67	03/16/99	3240.67	03/10/04	NA	03/11/09	3231.17		
04/13/94	3249.17	04/14/99	3240.42	04/14/04	NA	04/22/09	3231.57		
05/11/94	3249.00	05/12/99	3240.50	05/12/04	NA	05/13/09	3231.57		
06/09/94	3249.09	06/09/99	3240.67	06/16/04	NA	06/09/09	3231.87		
07/13/94	3248.84	07/14/99	3240.51	07/21/04	NA	07/08/09	3232.17		
08/10/94	3248.17	08/11/99	3240.67	08/11/04	NA	08/19/09	3232.27		
09/14/94	3244.42	09/15/99	3240.51	09/08/04	NA	09/16/09	NA		
10/12/94	3245.17	10/13/99	3241.09	10/12/04	NA	10/14/09	3230.27		
11/09/94	3245.17	11/17/99	3240.67	11/17/04	NA	11/12/09	3230.37		
12/14/94	3245.92	12/08/99	3240.51	12/07/04	NA	12/16/09	3230.27		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: HDWD #6
LOCATION: 02/06E-30N01
ELEVATION: 3,367.92

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3049.92	01/11/95	3016.92	01/19/00	3019.59	01/11/05	3016.32	01/14/10	3010.22
02/06/90	3050.67	02/08/95	3016.50	02/14/00	3018.84	02/15/05	3016.12	02/17/10	3010.32
03/06/90	3050.59	03/08/95	3016.92	03/08/00	3021.59	03/09/05	3015.92	03/17/10	3010.22
04/10/90	3050.42	04/19/95	3017.17	04/12/00	3021.42	04/01/05	NA	04/14/10	3010.22
05/02/90	3050.59	05/10/95	3016.84	05/10/00	3022.67	05/18/05	3016.02	05/12/10	3010.22
06/05/90	3050.67	06/14/95	3016.92	06/14/00	3022.67	06/01/05	NA	06/10/10	3010.22
07/03/90	3050.50	07/12/95	3016.92	07/18/00	3023.50	07/13/05	3016.92	07/14/10	3010.72
08/07/90	3051.25	08/30/95	3016.84	08/09/00	3024.09	08/17/05	3016.92	08/19/10	3010.92
09/12/90	3050.84	09/13/95	3016.67	09/27/00	3024.76	09/13/05	3017.12	09/08/10	3010.92
10/02/90	3050.92	10/11/95	3016.59	10/11/00	3024.92	10/20/05	3017.22	10/13/10	3011.82
11/06/90	3049.00	11/08/95	3016.17	11/08/00	3024.92	11/22/05	3017.82	11/17/10	3012.12
12/04/90	3050.67	12/27/95	3016.75	12/12/00	3025.42	12/21/05	3017.82	12/16/10	3012.92
01/08/91	3051.59	01/10/96	3016.25	01/10/01	3024.92	01/11/06	3018.22	01/12/11	3012.92
02/06/91	3047.62	02/14/96	3015.92	02/14/01	3025.00	02/07/06	3013.92	02/09/11	3013.92
03/07/91	3047.42	03/13/96	3016.42	03/14/01	3024.92	03/08/06	3013.92	03/09/11	3014.02
04/04/91	3047.29	04/30/96	3016.92	04/11/01	3025.00	04/12/06	3015.82	04/13/11	3014.92
05/09/91	3046.79	05/15/96	3016.67	05/09/01	3025.00	05/10/06	3016.72	05/11/11	3015.42
06/07/91	3046.17	06/19/96	3016.84	06/13/01	3025.17	06/21/06	NA	06/08/11	3015.12
07/09/91	3045.75	07/10/96	3016.84	07/11/01	3025.42	07/12/06	NA	07/13/11	3016.82
08/06/91	3045.09	08/21/96	3015.92	08/08/01	3025.08	08/16/06	3013.62	08/10/11	3017.62
09/10/91	3045.01	09/11/96	3016.00	09/12/01	3025.26	09/13/06	3013.82	09/14/11	3017.92
10/08/91	3044.51	10/09/96	3015.92	10/10/01	3026.09	10/18/06	3013.82	10/12/11	3018.12
11/12/91	3044.01	11/13/96	3015.92	11/20/01	3025.92	11/15/06	3013.82	11/09/11	3017.92
12/10/91	3043.92	12/18/96	3015.84	12/13/01	3025.42	12/20/06	3013.62	12/14/11	3018.12
01/14/92	3043.50	01/08/97	3015.67	01/09/02	3025.92	01/10/07	3013.92		
02/11/92	3043.09	02/12/97	3015.84	02/13/02	3025.82	02/13/07	3013.32		
03/10/92	3042.75	03/12/97	3015.92	03/13/02	3025.92	03/14/07	3013.81		
04/14/92	3042.25	04/09/97	3015.92	04/10/02	3023.42	04/18/07	3012.92		
05/12/92	3039.09	05/14/97	3015.84	05/08/02	3025.75	05/16/07	3013.52		
06/09/92	3037.50	06/11/97	3015.84	06/12/02	3025.82	06/13/07	3013.52		
07/14/92	3029.84	07/09/97	3015.84	07/10/02	3025.92	07/11/07	3013.32		
08/11/92	3028.67	08/13/97	3015.84	08/14/02	3025.92	08/08/07	3013.92		
09/10/92	3025.17	09/10/97	3016.50	09/11/02	3025.92	09/19/07	3013.92		
10/13/92	3022.92	10/08/97	3015.09	10/09/02	3025.92	10/10/07	3014.22		
11/10/92	3021.42	11/12/97	3015.09	11/13/02	3025.92	11/14/07	3014.02		
12/08/92	3020.92	12/10/97	3014.75	12/11/02	3019.12	12/12/07	3013.92		
01/12/93	3019.84	01/14/98	3015.17	01/08/03	3019.22	01/09/08	3014.52		
02/09/93	3019.67	02/11/98	3014.92	02/12/03	3019.12	02/27/08	3010.92		
03/09/93	3019.09	03/11/98	3015.84	03/12/03	3019.12	03/12/08	3014.62		
04/13/93	3018.76	04/08/98	3015.67	04/09/03	3018.92	04/22/08	3014.42		
05/12/93	3018.34	05/13/98	3017.17	05/21/03	3018.92	05/12/08	3014.32		
06/09/93	3018.00	06/10/98	3017.59	06/11/03	3018.92	06/11/08	3014.62		
07/14/93	3017.67	07/08/98	3018.17	07/16/03	3018.82	07/09/08	3014.72		
08/11/93	3017.42	08/12/98	3019.25	08/13/03	3018.82	08/27/08	3014.42		
09/13/93	3017.25	09/09/98	3020.00	09/10/03	3018.92	09/10/08	3014.52		
10/12/93	3017.00	10/20/98	3020.50	10/08/03	3017.92	10/15/08	3014.62		
11/08/93	3017.09	11/17/98	3022.25	11/12/03	3017.72	11/12/08	3011.92		
12/08/93	3017.34	12/15/98	3021.67	12/10/03	3017.72	12/17/08	NA		
01/12/94	3016.92	01/12/99	3022.42	01/14/04	3017.82	01/14/09	3014.42		
02/09/94	3017.50	02/11/99	3022.42	02/18/04	3018.42	02/11/09	3014.32		
03/09/94	3016.75	03/16/99	3023.42	03/10/04	3018.12	03/11/09	3014.62		
04/13/94	3016.09	04/14/99	3023.42	04/14/04	3017.42	04/22/09	3014.62		
05/11/94	3016.67	05/12/99	3024.67	05/12/04	3017.42	05/13/09	3014.52		
06/09/94	3016.84	06/09/99	3024.59	06/16/04	3017.12	06/09/09	3014.62		
07/13/94	3015.84	07/14/99	3024.67	07/21/04	3017.12	07/08/09	3014.92		
08/10/94	3017.33	08/11/99	3024.92	08/11/04	3016.92	08/19/09	3015.02		
09/14/94	3016.00	09/15/99	3025.34	09/08/04	3017.12	09/16/09	3012.92		
10/12/94	3016.67	10/13/99	3026.75	10/12/04	3016.52	10/14/09	3010.22		
11/09/94	3016.84	11/17/99	3017.92	11/17/04	3016.22	11/12/09	3010.42		
12/14/94	3016.92	12/08/99	3018.00	12/07/04	3015.12	12/16/09	3009.92		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: HDWD #20
LOCATION: 02N/05E-36C
ELEVATION: 3,433.69

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	3151.69	01/19/00	3155.11	01/11/05	NA	01/14/10	3155.29
02/06/90	NA	02/08/95	3151.69	02/14/00	3154.69	02/15/05	NA	02/17/10	3155.39
03/06/90	NA	03/08/95	3151.69	03/08/00	3155.61	03/09/05	NA	03/17/10	3155.59
04/10/90	NA	04/19/95	3151.69	04/12/00	3155.61	04/01/05	NA	04/14/10	3155.59
05/02/90	NA	05/10/95	3151.77	05/10/00	3154.69	05/18/05	NA	05/12/10	3155.69
06/05/90	NA	06/14/95	3152.02	06/14/00	3155.44	06/01/05	NA	06/10/10	3155.69
07/03/90	NA	07/12/95	3151.77	07/18/00	3155.61	07/13/05	NA	07/14/10	3155.69
08/07/90	NA	08/30/95	3151.94	08/09/00	3156.02	08/17/05	NA	08/19/10	3155.79
09/12/90	NA	09/13/95	3151.77	09/27/00	3156.19	09/13/05	NA	09/08/10	3155.89
10/02/90	NA	10/11/95	3152.36	10/11/00	3156.19	10/20/05	NA	10/13/10	3155.69
11/06/90	NA	11/08/95	3152.61	11/08/00	3156.36	11/22/05	NA	11/17/10	3155.69
12/04/90	NA	12/27/95	3152.69	12/12/00	3156.36	12/21/05	NA	12/16/10	3155.79
01/08/91	NA	01/10/96	3152.69	01/10/01	3156.03	01/11/06	NA	01/12/11	3155.69
02/06/91	3154.79	02/14/96	3152.69	02/14/01	3156.03	02/07/06	NA	02/09/11	3155.79
03/07/91	3154.69	03/13/96	3154.11	03/14/01	3156.11	03/08/06	NA	03/09/11	3155.69
04/04/91	3154.81	04/30/96	3154.44	04/11/01	3156.02	04/12/06	NA	04/13/11	3155.69
05/09/91	3154.69	05/15/96	3154.44	05/09/01	3156.03	05/10/06	NA	05/11/11	3155.69
06/07/91	3154.36	06/19/96	3142.61 [1]	06/13/01	3156.03	06/21/06	NA	06/08/11	3153.69
07/09/91	3154.28	07/10/96	3154.69	07/11/01	3156.03	07/12/06	NA	07/13/11	3156.49
08/06/91	3154.11	08/21/96	3154.36	08/08/01	3156.03	08/16/06	NA	08/10/11	3156.49
09/10/91	3154.03	09/11/96	3154.44	09/12/01	3156.11	09/13/06	NA	09/14/11	3156.59
10/08/91	3153.69	10/09/96	3154.36	10/10/01	3156.27	10/18/06	NA	10/12/11	3153.79
11/12/91	3153.19	11/13/96	3154.69	11/20/01	3156.24	11/15/06	3149.29	11/09/11	3156.19
12/10/91	3153.86	12/18/96	3154.86	12/13/01	3156.29	12/20/06	3149.29	12/14/11	3155.79
01/14/92	3153.61	01/08/97	3154.86	01/09/02	3156.59	01/10/07	3149.49		
02/11/92	3153.27	02/12/97	3155.36	02/13/02	3156.69	02/13/07	3149.29		
03/10/92	3153.36	03/12/97	3155.52	03/13/02	3156.77	03/14/07	3148.99		
04/14/92	3153.36	04/09/97	3155.52	04/10/02	3155.94	04/18/07	3149.09		
05/12/92	3153.27	05/14/97	3155.61	05/08/02	3156.69	05/16/07	3149.69		
06/09/92	3153.02	06/11/97	3155.77	06/12/02	3156.69	06/13/07	3149.69		
07/14/92	3152.44	07/09/97	3155.52	07/10/02	3156.69	07/11/07	NA		
08/11/92	3152.44	08/13/97	3155.69	08/14/02	3157.19	08/08/07	3166.09		
09/10/92	3151.77	09/10/97	3157.11	09/11/02	3157.19	09/19/07	3150.39		
10/13/92	3151.86	10/08/97	3155.86	10/09/02	3157.19	10/10/07	3150.69		
11/10/92	3151.86	11/12/97	3156.94	11/13/02	3157.19	11/14/07	3150.69		
12/08/92	3153.69	12/10/97	3156.27	12/11/02	3152.49	12/12/07	3150.69		
01/12/93	3153.69	01/14/98	3156.11	01/08/03	3152.29	01/09/08	3151.49		
02/09/93	3152.69	02/11/98	3155.69	02/12/03	3152.39	02/27/08	3150.09		
03/09/93	3152.11	03/11/98	3156.27	03/12/03	3152.39	03/12/08	3151.99		
04/13/93	3152.02	04/08/98	3156.19	04/09/03	3152.49	04/22/08	3152.59		
05/12/93	3152.02	05/13/98	3156.19	05/21/03	NA	05/12/08	3152.49		
06/09/93	3152.19	06/10/98	3156.36	06/11/03	NA	06/11/08	3153.29		
07/14/93	3152.11	07/08/98	3156.11	07/16/03	NA	07/09/08	3153.49		
08/11/93	3151.77	08/12/98	3156.11	08/13/03	NA	08/27/08	3153.79		
09/13/93	3152.19	09/09/98	3156.19	09/10/03	NA	09/10/08	3154.19		
10/12/93	3152.36	10/20/98	3156.11	10/08/03	NA	10/15/08	3154.59		
11/08/93	3151.86	11/17/98	3155.94	11/12/03	NA	11/12/08	3152.69		
12/08/93	3151.77	12/15/98	3156.11	12/10/03	NA	12/17/08	NA		
01/12/94	3151.69	01/12/99	3155.94	01/14/04	NA	01/14/09	3161.49		
02/09/94	3152.19	02/11/99	3156.69	02/18/04	NA	02/11/09	3155.69		
03/09/94	3151.77	03/16/99	3155.77	03/10/04	NA	03/11/09	3155.99		
04/13/94	3151.69	04/14/99	3155.44	04/14/04	NA	04/22/09	3156.49		
05/11/94	3151.19	05/12/99	3155.69	05/12/04	NA	05/13/09	3156.49		
06/09/94	3151.36	06/09/99	3156.03	06/16/04	NA	06/09/09	3156.69		
07/13/94	3151.36	07/14/99	3155.61	07/21/04	NA	07/08/09	3157.09		
08/10/94	3153.19	08/11/99	3155.44	08/11/04	NA	08/19/09	3157.69		
09/14/94	3151.69	09/15/99	3155.36	09/08/04	NA	09/16/09	3157.69		
10/12/94	3151.69	10/13/99	3155.11	10/12/04	NA	10/14/09	3155.09		
11/09/94	3151.69	11/17/99	3155.44	11/17/04	NA	11/12/09	3155.09		
12/14/94	3151.69	12/08/99	3155.36	12/07/04	NA	12/16/09	3154.69		

1. This value reported for HDWD #20 Well appears to be an aberation and may not be indicative of the actual water level in the well during this month.

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: HDWD #10
LOCATION: 01N/06E-17A
ELEVATION: 3,309.37

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	3014.11	01/19/00	3048.15	01/11/05	3057.87	01/14/10	3082.47
02/06/90	NA	02/08/95	3016.42	02/14/00	3052.29	02/15/05	3059.87	02/17/10	3083.17
03/06/90	NA	03/08/95	3016.42	03/08/00	3047.69	03/09/05	3060.37	03/17/10	3083.17
04/10/90	NA	04/19/95	3018.73	04/12/00	3048.84	04/01/05	NA	04/14/10	3082.77
05/02/90	NA	05/10/95	3021.04	05/10/00	3051.15	05/18/05	3060.37	05/12/10	3082.87
06/05/90	NA	06/14/95	3023.35	06/14/00	3050.00	06/01/05	NA	06/10/10	NA
07/03/90	NA	07/12/95	3024.74	07/18/00	3050.00	07/13/05	3060.87	07/14/10	3083.57
08/07/90	NA	08/30/95	3021.50	08/09/00	3050.00	08/17/05	3060.27	08/19/10	3084.17
09/12/90	NA	09/13/95	3022.89	09/27/00	3050.46	09/13/05	3059.87	09/08/10	3084.17
10/02/90	NA	10/11/95	3025.20	10/11/00	3050.00	10/20/05	3060.37	10/13/10	3084.37
11/06/90	NA	11/08/95	3023.35	11/08/00	3050.00	11/22/05	3061.37	11/17/10	3084.47
12/04/90	NA	12/27/95	3026.81	12/12/00	3050.00	12/21/05	3068.57	12/16/10	3085.17
01/08/91	NA	01/10/96	3026.12	01/10/01	3050.00	01/11/06	3071.77	01/12/11	3084.87
02/06/91	2950.37	02/14/96	3027.97	02/14/01	3050.00	02/07/06	3069.77	02/09/11	3085.27
03/07/91	2952.37	03/13/96	3027.97	03/14/01	3051.39	03/08/06	3070.17	03/09/11	3085.37
04/04/91	2959.82	04/30/96	3029.12	04/11/01	3051.15	04/12/06	3070.47	04/13/11	3086.27
05/09/91	2960.67	05/15/96	3032.13	05/09/01	3055.77	05/10/06	3070.77	05/11/11	3085.77
06/07/91	2947.12	06/19/96	3034.44	06/13/01	3052.77	06/21/06	NA	06/08/11	3085.37
07/09/91	2964.37	07/10/96	3033.05	07/11/01	3051.15	07/12/06	NA	07/13/11	3086.87
08/06/91	2964.45	08/21/96	3033.51	08/08/01	3050.00	08/16/06	3071.97	08/10/11	3087.07
09/10/91	2937.88	09/11/96	3032.59	09/12/01	3048.84	09/13/06	3072.27	09/14/11	3087.27
10/08/91	2957.52	10/09/96	3032.59	10/10/01	3047.69	10/18/06	3072.67	10/12/11	3087.37
11/12/91	2956.36	11/13/96	3032.13	11/20/01	3050.69	11/15/06	3072.97	11/09/11	3087.27
12/10/91	2955.21	12/18/96	3033.05	12/13/01	3047.67	12/20/06	3073.17	12/14/11	3087.27
01/14/92	2954.05	01/08/97	3034.90	01/09/02	3052.37	01/10/07	3073.77		
02/11/92	2958.67	02/12/97	3036.05	02/13/02	3051.87	02/13/07	3073.87		
03/10/92	2967.91	03/12/97	3037.21	03/13/02	3058.00	03/14/07	3074.27		
04/14/92	2972.99	04/09/97	3037.21	04/10/02	3050.46	04/18/07	3075.37		
05/12/92	2974.37	05/14/97	3038.36	05/08/02	3048.84	05/16/07	3075.27		
06/09/92	2969.76	06/11/97	3039.06	06/12/02	3048.84	06/13/07	3075.27		
07/14/92	2964.91	07/09/97	3039.52	07/10/02	3053.47	07/11/07	3075.67		
08/11/92	2984.37	08/13/97	3043.22	08/14/02	3024.57	08/08/07	3076.07		
09/10/92	2994.48	09/10/97	3042.29	09/11/02	3040.00	09/19/07	3076.87		
10/13/92	2983.62	10/08/97	3041.83	10/09/02	3052.37	10/10/07	3076.77		
11/10/92	2986.85	11/12/97	3033.37	11/13/02	3055.97	11/14/07	3077.17		
12/08/92	2991.01	12/10/97	3042.70	12/11/02	3053.17	12/12/07	3076.37		
01/12/93	2996.09	01/14/98	3053.38	01/08/03	3053.87	01/09/08	3077.37		
02/09/93	2999.79	02/11/98	3044.12	02/12/03	3054.57	02/27/08	3077.17		
03/09/93	2999.09	03/11/98	3041.62	03/12/03	3055.37	03/12/08	3077.27		
04/13/93	2999.79	04/08/98	3043.53	04/09/03	3055.97	04/22/08	3076.37		
05/12/93	3000.71	05/13/98	3044.92	05/21/03	3056.77	05/12/08	3077.37		
06/09/93	3000.25	06/10/98	3044.92	06/11/03	3057.37	06/11/08	3079.37		
07/14/93	2997.94	07/08/98	3044.92	07/16/03	3057.97	07/09/08	3075.37		
08/11/93	2997.47	08/12/98	3048.15	08/13/03	3057.77	08/27/08	3075.57		
09/13/93	2997.48	09/09/98	3047.69	09/10/03	3058.27	09/10/08	3075.97		
10/12/93	2995.63	10/20/98	3048.15	10/08/03	3058.97	10/15/08	3080.27		
11/08/93	3000.27	11/17/98	3047.79	11/12/03	3059.57	11/12/08	3080.47		
12/08/93	3003.48	12/15/98	3048.20	12/10/03	3059.87	12/17/08	NA		
01/12/94	3000.71	01/12/99	3053.37	01/14/04	3059.37	01/14/09	3081.17		
02/09/94	3002.10	02/11/99	3051.97	02/18/04	3059.87	02/11/09	3081.37		
03/09/94	3004.87	03/16/99	3050.00	03/10/04	3059.37	03/11/09	3081.67		
04/13/94	3007.64	04/14/99	3048.84	04/14/04	3059.57	04/22/09	3082.17		
05/11/94	3010.64	05/12/99	3050.87	05/12/04	3059.87	05/13/09	3081.37		
06/09/94	3011.80	06/09/99	3052.77	06/16/04	3059.57	06/09/09	3080.37		
07/13/94	3009.49	07/14/99	3050.00	07/21/04	3059.87	07/08/09	3082.77		
08/10/94	3008.33	08/11/99	3050.00	08/11/04	3059.87	08/19/09	3083.37		
09/14/94	3012.26	09/15/99	3050.46	09/08/04	3059.37	09/16/09	3083.57		
10/12/94	3014.11	10/13/99	3051.15	10/12/04	3059.37	10/14/09	3081.87		
11/09/94	3012.26	11/17/99	3051.85	11/17/04	3059.87	11/12/09	3082.27		
12/14/94	3010.64	12/08/99	3050.46	12/07/04	3059.87	12/16/09	3081.97		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: GUBLER FARM WELL
LOCATION: 02N/05E-01H01
ELEVATION: 2,980.00

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2906.50	01/11/95	NA	01/19/00	NA	01/11/05	NA	01/14/10	NA
02/06/90	2906.42	02/08/95	NA	02/14/00	NA	02/15/05	NA	02/17/10	NA
03/06/90	2906.50	03/08/95	NA	03/08/00	NA	03/09/05	NA	03/17/10	NA
04/10/90	2905.42	04/19/95	NA	04/12/00	NA	04/01/05	NA	04/14/10	NA
05/02/90	2905.75	05/10/95	NA	05/10/00	NA	05/18/05	NA	05/12/10	NA
06/05/90	2905.17	06/14/95	NA	06/14/00	NA	06/01/05	NA	06/10/10	NA
07/03/90	2906.25	07/12/95	NA	07/18/00	NA	07/13/05	NA	07/14/10	NA
08/07/90	2905.50	08/30/95	NA	08/09/00	NA	08/17/05	NA	08/19/10	NA
09/12/90	2905.17	09/13/95	NA	09/27/00	NA	09/13/05	NA	09/08/10	NA
10/02/90	2905.50	10/11/95	NA	10/11/00	NA	10/20/05	NA	10/13/10	NA
11/06/90	2905.92	11/08/95	NA	11/08/00	NA	11/22/05	NA	11/17/10	NA
12/04/90	2906.08	12/27/95	NA	12/12/00	NA	12/21/05	NA	12/16/10	NA
01/08/91	2906.42	01/10/96	NA	01/10/01	NA	01/11/06	NA	01/12/11	NA
02/06/91	NA	02/14/96	NA	02/14/01	NA	02/07/06	NA	02/09/11	NA
03/07/91	NA	03/13/96	NA	03/14/01	NA	03/08/06	NA	03/09/11	NA
04/04/91	NA	04/30/96	NA	04/11/01	NA	04/12/06	NA	04/13/11	NA
05/09/91	NA	05/15/96	NA	05/09/01	NA	05/10/06	NA	05/11/11	NA
06/07/91	NA	06/19/96	NA	06/13/01	NA	06/21/06	NA	06/08/11	NA
07/09/91	NA	07/10/96	NA	07/11/01	NA	07/12/06	NA	07/13/11	NA
08/06/91	NA	08/21/96	NA	08/08/01	NA	08/16/06	NA	08/10/11	NA
09/10/91	NA	09/11/96	NA	09/12/01	NA	09/13/06	NA	09/14/11	NA
10/08/91	NA	10/09/96	NA	10/10/01	NA	10/18/06	NA	10/12/11	NA
11/12/91	NA	11/13/96	NA	11/20/01	NA	11/15/06	NA	11/09/11	NA
12/10/91	NA	12/18/96	NA	12/13/01	NA	12/20/06	NA	12/14/11	NA
01/14/92	NA	01/08/97	NA	01/09/02	NA	01/10/07	2871.90		
02/11/92	NA	02/12/97	NA	02/13/02	NA	02/13/07	2871.70		
03/10/92	NA	03/12/97	NA	03/13/02	NA	03/14/07	NA		
04/14/92	NA	04/09/97	NA	04/10/02	NA	04/18/07	NA		
05/12/92	NA	05/14/97	NA	05/08/02	NA	05/16/07	NA		
06/09/92	NA	06/11/97	NA	06/12/02	NA	06/13/07	NA		
07/14/92	NA	07/09/97	NA	07/10/02	NA	07/11/07	NA		
08/11/92	NA	08/13/97	NA	08/14/02	NA	08/08/07	NA		
09/10/92	NA	09/10/97	NA	09/11/02	NA	09/19/07	NA		
10/13/92	NA	10/08/97	NA	10/09/02	NA	10/10/07	NA		
11/10/92	NA	11/12/97	NA	11/13/02	NA	11/14/07	NA		
12/08/92	NA	12/10/97	NA	12/11/02	NA	12/12/07	2870.80		
01/12/93	NA	01/14/98	NA	01/08/03	NA	01/09/08	NA		
02/09/93	NA	02/11/98	NA	02/12/03	NA	02/27/08	NA		
03/09/93	NA	03/11/98	NA	03/12/03	NA	03/12/08	NA		
04/13/93	NA	04/08/98	NA	04/09/03	NA	04/22/08	NA		
05/12/93	NA	05/13/98	NA	05/21/03	NA	05/12/08	NA		
06/09/93	NA	06/10/98	NA	06/11/03	NA	06/11/08	NA		
07/14/93	NA	07/08/98	NA	07/16/03	NA	07/09/08	NA		
08/11/93	NA	08/12/98	NA	08/13/03	NA	08/27/08	NA		
09/13/93	NA	09/09/98	NA	09/10/03	NA	09/10/08	NA		
10/12/93	NA	10/20/98	NA	10/08/03	NA	10/15/08	NA		
11/08/93	NA	11/17/98	NA	11/12/03	NA	11/12/08	NA		
12/08/93	NA	12/15/98	NA	12/10/03	NA	12/17/08	NA		
01/12/94	NA	01/12/99	NA	01/14/04	NA	01/14/09	NA		
02/09/94	NA	02/11/99	NA	02/18/04	NA	02/11/09	NA		
03/09/94	NA	03/16/99	NA	03/10/04	NA	03/11/09	NA		
04/13/94	NA	04/14/99	NA	04/14/04	NA	04/22/09	NA		
05/11/94	NA	05/12/99	NA	05/12/04	NA	05/13/09	NA		
06/09/94	NA	06/09/99	NA	06/16/04	NA	06/09/09	NA		
07/13/94	NA	07/14/99	NA	07/21/04	NA	07/08/09	NA		
08/10/94	NA	08/11/99	NA	08/11/04	NA	08/19/09	NA		
09/14/94	NA	09/15/99	NA	09/08/04	NA	09/16/09	NA		
10/12/94	NA	10/13/99	NA	10/12/04	NA	10/14/09	NA		
11/09/94	NA	11/17/99	NA	11/17/04	NA	11/12/09	NA		
12/14/94	NA	12/08/99	NA	12/07/04	NA	12/16/09	NA		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: HAYES WELL
LOCATION: 02N/05E-23D
ELEVATION: 3448.96

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3266.36	01/11/95	NA	01/19/00	NA	01/11/05	DRY	01/14/10	DRY
02/06/90	3266.38	02/08/95	NA	02/14/00	NA	02/15/05	DRY	02/17/10	DRY
03/06/90	3266.46	03/08/95	NA	03/08/00	NA	03/09/05	DRY	03/17/10	DRY
04/10/90	3265.88	04/19/95	NA	04/12/00	NA	04/01/05	DRY	04/14/10	DRY
05/02/90	3265.96	05/10/95	NA	05/10/00	NA	05/18/05	DRY	05/12/10	DRY
06/05/90	3266.46	06/14/95	NA	06/14/00	NA	06/01/05	DRY	06/10/10	DRY
07/03/90	3266.46	07/12/95	NA	07/18/00	NA	07/13/05	DRY	07/14/10	DRY
08/07/90	3266.13	08/30/95	NA	08/09/00	NA	08/17/05	DRY	08/19/10	DRY
09/12/90	3266.04	09/13/95	NA	09/27/00	NA	09/13/05	DRY	09/08/10	DRY
10/02/90	3266.13	10/11/95	NA	10/11/00	NA	10/20/05	DRY	10/13/10	DRY
11/06/90	3265.96	11/08/95	NA	11/08/00	NA	11/22/05	DRY	11/17/10	DRY
12/04/90	3266.96	12/27/95	NA	12/12/00	NA	12/21/05	DRY	12/16/10	DRY
01/08/91	3268.80	01/10/96	NA	01/10/01	NA	01/11/06	DRY	01/12/11	DRY
02/06/91	3266.06	02/14/96	NA	02/14/01	NA	02/07/06	DRY	02/09/11	DRY
03/07/91	3267.06	03/13/96	NA	03/14/01	NA	03/08/06	DRY	03/09/11	DRY
04/04/91	3266.04	04/30/96	NA	04/11/01	NA	04/12/06	DRY	04/13/11	DRY
05/09/91	3265.88	05/15/96	NA	05/09/01	NA	05/10/06	DRY	05/11/11	DRY
06/07/91	3265.80	06/19/96	NA	06/13/01	NA	06/21/06	DRY	06/08/11	DRY
07/09/91	3265.80	07/10/96	NA	07/11/01	NA	07/12/06	DRY	07/13/11	DRY
08/06/91	3265.80	08/21/96	NA	08/08/01	NA	08/16/06	DRY	08/10/11	DRY
09/10/91	3265.63	09/11/96	NA	09/12/01	NA	09/13/06	DRY	09/14/11	DRY
10/08/91	3265.63	10/09/96	NA	10/10/01	NA	10/18/06	DRY	10/12/11	DRY
11/12/91	3265.71	11/13/96	NA	11/20/01	NA	11/15/06	DRY	11/09/11	DRY
12/10/91	3265.71	12/18/96	NA	12/13/01	NA	12/20/06	DRY	12/14/11	DRY
01/14/92	3265.79	01/08/97	NA	01/09/02	NA	01/10/07	DRY		
02/11/92	3265.71	02/12/97	NA	02/13/02	NA	02/13/07	DRY		
03/10/92	3265.38	03/12/97	NA	03/13/02	NA	03/14/07	DRY		
04/14/92	3265.54	04/09/97	NA	04/10/02	NA	04/18/07	DRY		
05/12/92	3265.54	05/14/97	NA	05/08/02	NA	05/16/07	DRY		
06/09/92	3265.13	06/11/97	NA	06/12/02	NA	06/13/07	DRY		
07/14/92	3262.46	07/09/97	NA	07/10/02	NA	07/11/07	DRY		
08/11/92	3261.96	08/13/97	NA	08/14/02	NA	08/08/07	DRY		
09/10/92	3260.29	09/10/97	NA	09/11/02	NA	09/19/07	DRY		
10/13/92	3260.21	10/08/97	NA	10/09/02	NA	10/10/07	DRY		
11/10/92	3259.46	11/12/97	NA	11/13/02	NA	11/14/07	DRY		
12/08/92	3260.71	12/10/97	NA	12/11/02	NA	12/12/07	DRY		
01/12/93	3259.96	01/14/98	NA	01/08/03	NA	01/09/08	DRY		
02/09/93	3259.21	02/11/98	NA	02/12/03	NA	02/27/08	DRY		
03/09/93	3257.46	03/11/98	NA	03/12/03	NA	03/12/08	DRY		
04/13/93	3256.46	04/08/98	NA	04/09/03	NA	04/22/08	DRY		
05/12/93	3255.88	05/13/98	NA	05/21/03	NA	05/12/08	DRY		
06/09/93	3255.96	06/10/98	NA	06/11/03	NA	06/11/08	DRY		
07/14/93	3254.21	07/08/98	NA	07/16/03	NA	07/09/08	DRY		
08/11/93	3253.46	08/12/98	NA	08/13/03	NA	08/27/08	DRY		
09/13/93	3252.46	09/09/98	NA	09/10/03	NA	09/10/08	DRY		
10/12/93	3251.79	10/20/98	NA	10/08/03	NA	10/15/08	DRY		
11/08/93	3251.96	11/17/98	NA	11/12/03	NA	11/12/08	DRY		
12/08/93	3252.04	12/15/98	NA	12/10/03	NA	12/17/08	DRY		
01/12/94	3251.96	01/12/99	NA	01/14/04	NA	01/14/09	DRY		
02/09/94	3252.04	02/11/99	NA	02/18/04	NA	02/11/09	DRY		
03/09/94	3252.13	03/16/99	NA	03/10/04	NA	03/11/09	DRY		
04/13/94	3251.96	04/14/99	NA	04/14/04	NA	04/22/09	DRY		
05/11/94	3252.13	05/12/99	NA	05/12/04	NA	05/13/09	DRY		
06/09/94	3252.04	06/09/99	NA	06/16/04	NA	06/09/09	DRY		
07/13/94	3253.96	07/14/99	NA	07/21/04	NA	07/08/09	DRY		
08/10/94	3253.96	08/11/99	NA	08/11/04	NA	08/19/09	DRY		
09/14/94	NA	09/15/99	NA	09/08/04	NA	09/16/09	DRY		
10/12/94	NA	10/13/99	NA	10/12/04	NA	10/14/09	DRY		
11/09/94	NA	11/17/99	NA	11/17/04	NA	11/12/09	DRY		
12/14/94	NA	12/08/99	NA	12/07/04	NA	12/16/09	DRY		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: **BDVWA #1**
LOCATION: **02N/05E-23M**
ELEVATION: **3460.41**

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	3272.11	01/11/95	3247.58	01/19/00	NA	01/11/05	DRY	01/14/10	DRY
02/06/90	3272.24	02/08/95	3247.74	02/14/00	NA	02/15/05	DRY	02/17/10	DRY
03/06/90	3272.41	03/08/95	3247.41	03/08/00	NA	03/09/05	DRY	03/17/10	DRY
04/10/90	3271.75	04/19/95	3242.83	04/12/00	NA	04/01/05	DRY	04/14/10	DRY
05/02/90	3271.91	05/10/95	3242.58	05/10/00	NA	05/18/05	DRY	05/12/10	DRY
06/05/90	3272.41	06/14/95	NA	06/14/00	NA	06/01/05	DRY	06/10/10	DRY
07/03/90	3272.16	07/12/95	NA	07/18/00	NA	07/13/05	DRY	07/14/10	DRY
08/07/90	3271.66	08/30/95	NA	08/09/00	NA	08/17/05	DRY	08/19/10	DRY
09/12/90	3271.41	09/13/95	NA	09/27/00	NA	09/13/05	DRY	09/08/10	DRY
10/02/90	3271.41	10/11/95	NA	10/11/00	NA	10/20/05	DRY	10/13/10	DRY
11/06/90	3271.33	11/08/95	NA	11/08/00	NA	11/22/05	DRY	11/17/10	DRY
12/04/90	3272.24	12/27/95	NA	12/12/00	NA	12/21/05	DRY	12/16/10	DRY
01/08/91	3274.08	01/10/96	NA	01/10/01	NA	01/11/06	DRY	01/12/11	DRY
02/06/91	3271.51	02/14/96	NA	02/14/01	NA	02/07/06	DRY	02/09/11	DRY
03/07/91	3272.51	03/13/96	NA	03/14/01	NA	03/08/06	DRY	03/09/11	DRY
04/04/91	3271.56	04/30/96	NA	04/11/01	NA	04/12/06	DRY	04/13/11	DRY
05/09/91	3271.58	05/15/96	NA	05/09/01	NA	05/10/06	DRY	05/11/11	DRY
06/07/91	3271.25	06/19/96	NA	06/13/01	NA	06/21/06	DRY	06/08/11	DRY
07/09/91	3271.25	07/10/96	NA	07/11/01	NA	07/12/06	DRY	07/13/11	DRY
08/06/91	3271.16	08/21/96	NA	08/08/01	NA	08/16/06	DRY	08/10/11	DRY
09/10/91	3270.91	09/11/96	NA	09/12/01	NA	09/13/06	DRY	09/14/11	DRY
10/08/91	3271.00	10/09/96	NA	10/10/01	NA	10/18/06	DRY	10/12/11	DRY
11/12/91	3271.08	11/13/96	NA	11/20/01	NA	11/15/06	DRY	11/09/11	DRY
12/10/91	3271.08	12/18/96	NA	12/13/01	NA	12/20/06	DRY	12/14/11	DRY
01/14/92	3270.49	01/08/97	NA	01/09/02	NA	01/10/07	DRY		
02/11/92	3270.83	02/12/97	NA	02/13/02	NA	02/13/07	DRY		
03/10/92	3270.74	03/12/97	NA	03/13/02	NA	03/14/07	DRY		
04/14/92	3270.89	04/09/97	NA	04/10/02	NA	04/18/07	DRY		
05/12/92	3270.66	05/14/97	NA	05/08/02	NA	05/16/07	DRY		
06/09/92	3270.33	06/11/97	NA	06/12/02	NA	06/13/07	DRY		
07/14/92	3267.91	07/09/97	NA	07/10/02	NA	07/11/07	DRY		
08/11/92	3267.74	08/13/97	NA	08/14/02	NA	08/08/07	DRY		
09/10/92	3266.74	09/10/97	NA	09/11/02	NA	09/19/07	DRY		
10/13/92	3265.66	10/08/97	NA	10/09/02	NA	10/10/07	DRY		
11/10/92	3265.91	11/12/97	NA	11/13/02	NA	11/14/07	DRY		
12/08/92	3265.16	12/10/97	NA	12/11/02	NA	12/12/07	DRY		
01/12/93	3263.58	01/14/98	NA	01/08/03	NA	01/09/08	DRY		
02/09/93	3262.08	02/11/98	NA	02/12/03	NA	02/27/08	DRY		
03/09/93	3258.74	03/11/98	NA	03/12/03	NA	03/12/08	DRY		
04/13/93	3256.41	04/08/98	NA	04/09/03	NA	04/22/08	DRY		
05/12/93	3254.49	05/13/98	NA	05/21/03	NA	05/12/08	DRY		
06/09/93	3252.41	06/10/98	NA	06/11/03	NA	06/11/08	DRY		
07/14/93	3251.01	07/08/98	NA	07/16/03	NA	07/09/08	DRY		
08/11/93	3249.58	08/12/98	NA	08/13/03	NA	08/27/08	DRY		
09/13/93	3247.99	09/09/98	NA	09/10/03	NA	09/10/08	DRY		
10/12/93	3248.41	10/20/98	NA	10/08/03	NA	10/15/08	DRY		
11/08/93	3248.41	11/17/98	NA	11/12/03	NA	11/12/08	DRY		
12/08/93	3248.41	12/15/98	NA	12/10/03	NA	12/17/08	DRY		
01/12/94	3248.08	01/12/99	NA	01/14/04	NA	01/14/09	DRY		
02/09/94	3247.41	02/11/99	NA	02/18/04	NA	02/11/09	DRY		
03/09/94	3247.49	03/16/99	NA	03/10/04	NA	03/11/09	DRY		
04/13/94	3248.49	04/14/99	NA	04/14/04	NA	04/22/09	DRY		
05/11/94	3248.58	05/12/99	NA	05/12/04	NA	05/13/09	DRY		
06/09/94	3248.33	06/09/99	NA	06/16/04	NA	06/09/09	DRY		
07/13/94	3246.33	07/14/99	NA	07/21/04	NA	07/08/09	DRY		
08/10/94	3248.24	08/11/99	NA	08/11/04	NA	08/19/09	DRY		
09/14/94	3245.49	09/15/99	NA	09/08/04	NA	09/16/09	DRY		
10/12/94	3247.16	10/13/99	NA	10/12/04	NA	10/14/09	DRY		
11/09/94	3247.49	11/17/99	NA	11/17/04	NA	11/12/09	DRY		
12/14/94	3247.66	12/08/99	NA	12/07/04	NA	12/16/09	DRY		

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: HDWD #21
LOCATION: 02N/05E-02A
ELEVATION: 3,561.76

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	NA	01/11/95	NA	01/19/00	NA	01/11/05	3127.46	01/14/10	3139.76
02/06/90	NA	02/08/95	NA	02/14/00	NA	02/15/05	3127.06	02/17/10	3140.26
03/06/90	NA	03/08/95	NA	03/08/00	NA	03/09/05	3128.46	03/17/10	3140.36
04/10/90	NA	04/19/95	NA	04/12/00	NA	04/01/05	NA	04/14/10	3140.16
05/02/90	NA	05/10/95	NA	05/10/00	NA	05/18/05	3129.16	05/12/10	3140.36
06/05/90	NA	06/14/95	NA	06/14/00	NA	06/01/05	NA	06/10/10	3139.96
07/03/90	NA	07/12/95	NA	07/18/00	NA	07/13/05	3129.66	07/14/10	3140.86
08/07/90	NA	08/30/95	NA	08/09/00	NA	08/17/05	3129.86	08/19/10	3141.66
09/12/90	NA	09/13/95	NA	09/27/00	NA	09/13/05	3129.46	09/08/10	3141.76
10/02/90	NA	10/11/95	NA	10/11/00	NA	10/20/05	3129.36	10/13/10	3141.86
11/06/90	NA	11/08/95	NA	11/08/00	NA	11/22/05	3129.96	11/17/10	3142.36
12/04/90	NA	12/27/95	NA	12/12/00	NA	12/21/05	3130.76	12/16/10	3142.76
01/08/91	3163.46	01/10/96	NA	01/10/01	NA	01/11/06	3131.06	01/12/11	3142.76
02/06/91	3163.76	02/14/96	NA	02/14/01	NA	02/07/06	3129.06	02/09/11	3143.66
03/07/91	3163.82	03/13/96	NA	03/14/01	NA	03/08/06	3129.66	03/09/11	3143.46
04/04/91	3163.45	04/30/96	NA	04/11/01	NA	04/12/06	3129.56	04/13/11	3143.76
05/09/91	3163.01	05/15/96	NA	05/09/01	NA	05/10/06	3130.26	05/11/11	3142.96
06/07/91	3163.18	06/19/96	NA	06/13/01	NA	06/21/06	NA	06/08/11	3143.26
07/09/91	3163.01	07/10/96	NA	07/11/01	NA	07/12/06	NA	07/13/11	3145.26
08/06/91	3163.45	08/21/96	NA	08/08/01	NA	08/16/06	3130.76	08/10/11	3145.56
09/10/91	3163.01	09/11/96	NA	09/12/01	NA	09/13/06	3130.96	09/14/11	3145.66
10/08/91	3162.76	10/09/96	NA	10/10/01	NA	10/18/06	3131.56	10/12/11	3145.26
11/12/91	3162.60	11/13/96	NA	11/20/01	NA	11/15/06	3131.76	11/09/11	3145.76
12/10/91	3162.68	12/18/96	NA	12/13/01	NA	12/20/06	3131.76	12/14/11	3145.86
01/14/92	3162.68	01/08/97	NA	01/09/02	3120.01	01/10/07	3132.26		
02/11/92	3162.84	02/12/97	NA	02/13/02	3120.76	02/13/07	3132.46		
03/10/92	3162.18	03/12/97	NA	03/13/02	3121.76	03/14/07	3131.96		
04/14/92	3162.26	04/09/97	NA	04/10/02	3122.43	04/18/07	3132.66		
05/12/92	3161.93	05/14/97	NA	05/08/02	3122.76	05/16/07	3132.76		
06/09/92	3161.76	06/11/97	NA	06/12/02	3124.16	06/13/07	3133.66		
07/14/92	3187.76	07/09/97	NA	07/10/02	3124.16	07/11/07	3134.16		
08/11/92	3176.09	08/13/97	NA	08/14/02	3125.26	08/08/07	3114.56		
09/10/92	3136.68	09/10/97	NA	09/11/02	3125.76	09/19/07	3135.46		
10/13/92	3116.93	10/08/97	NA	10/09/02	3126.46	10/10/07	3135.66		
11/10/92	3101.76	11/12/97	NA	11/13/02	3126.46	11/14/07	3135.76		
12/08/92	3088.84	12/10/97	NA	12/11/02	3119.36	12/12/07	3136.16		
01/12/93	3076.09	01/14/98	NA	01/08/03	3119.66	01/09/08	3136.76		
02/09/93	3068.18	02/11/98	NA	02/12/03	3119.86	02/27/08	3133.76		
03/09/93	3061.43	03/11/98	NA	03/12/03	3120.76	03/12/08	3137.36		
04/13/93	NA	04/08/98	NA	04/09/03	3120.96	04/22/08	3137.86		
05/12/93	NA	05/13/98	NA	05/21/03	3121.76	05/12/08	3138.06		
06/09/93	NA	06/10/98	NA	06/11/03	3121.76	06/11/08	3138.76		
07/14/93	NA	07/08/98	NA	07/16/03	3122.36	07/09/08	3138.86		
08/30/93	3061.76	08/12/98	NA	08/13/03	3121.96	08/27/08	3138.46		
09/13/93	NA	09/09/98	NA	09/10/03	3122.66	09/10/08	3138.76		
10/12/93	3042.68	10/20/98	NA	10/08/03	3122.96	10/15/08	3139.76		
11/08/93	NA	11/17/98	NA	11/12/03	3122.86	11/12/08	3136.26		
12/08/93	NA	12/15/98	NA	12/10/03	3123.26	12/17/08	NA		
01/12/94	NA	01/12/99	NA	01/14/04	3123.76	01/14/09	3140.46		
02/09/94	NA	02/11/99	NA	02/18/04	3134.26	02/11/09	3141.06		
03/09/94	NA	03/16/99	NA	03/10/04	3124.66	03/11/09	3141.56		
04/13/94	NA	04/14/99	NA	04/14/04	3124.96	04/22/09	3141.86		
05/11/94	NA	05/12/99	NA	05/12/04	3125.56	05/13/09	3141.96		
06/09/94	NA	06/09/99	NA	06/16/04	3125.76	06/09/09	3142.66		
07/13/94	NA	07/14/99	NA	07/21/04	3125.66	07/08/09	3143.26		
08/10/94	NA	08/11/99	NA	08/11/04	3126.16	08/19/09	3143.76		
09/14/94	NA	09/15/99	NA	09/08/04	3126.66	09/16/09	3144.06		
10/12/94	NA	10/13/99	NA	10/12/04	3126.56	10/14/09	3138.76		
11/09/94	NA	11/17/99	NA	11/17/04	3126.76	11/12/09	3139.56		
12/14/94	NA	12/08/99	NA	12/07/04	3126.86	12/16/09	3138.86		

NA = NOT AVAILABLE

APPENDIX B

AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: GUBLER FARM WELL
LOCATION: 02N/05E-01K01[1]
ELEVATION: 3,006.03

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2899.93	01/11/95	2902.86	01/19/00	2901.61	01/11/05	2899.03	01/14/10	2898.23
02/06/90	2902.11	02/08/95	2904.78	02/14/00	2901.37	02/15/05	NA	02/17/10	2897.33
03/06/90	2900.45	03/08/95	2904.95	03/08/00	2901.11	03/09/05	2898.53	03/17/10	2897.63
04/10/90	2902.37	04/19/95	2905.03	04/12/00	2898.78	04/01/05	NA	04/14/10	NA
05/02/90	2902.36	05/10/95	2904.86	05/10/00	2900.03	05/18/05	2898.13	05/12/10	2895.83
06/05/90	2902.41	06/14/95	2902.28	06/14/00	2901.70	06/01/05	2898.03	06/10/10	2895.53
07/03/90	2901.20	07/12/95	2902.45	07/18/00	2901.45	07/13/05	NA	07/14/10	2894.83
08/07/90	2901.95	08/30/95	2902.61	08/09/00	2895.36	08/17/05	2898.53	08/19/10	2891.73
09/12/90	2901.11	09/13/95	2903.95	09/27/00	2898.53	09/13/05	NA	09/08/10	NA
10/02/90	2902.45	10/11/95	2903.86	10/11/00	2899.28	10/20/05	2898.63	10/13/10	2896.43
11/06/90	2902.53	11/08/95	2904.11	11/08/00	2900.28	11/22/05	2898.33	11/17/10	2894.92
12/04/90	2902.95	12/27/95	2904.36	12/12/00	2900.45	12/21/05	NA	12/16/10	2895.93
01/08/91	2903.37	01/10/96	2904.28	01/10/01	2900.03	01/11/06	NA	01/12/11	2893.93
02/06/91	2902.78	02/14/96	2904.53	02/14/01	2901.03	02/07/06	2898.53	02/09/11	2895.93
03/07/91	2902.83	03/13/96	2904.28	03/14/01	2900.28	03/08/06	2898.03	03/09/11	2894.93
04/04/91	2902.86	04/30/96	2904.11	04/11/01	2899.03	04/12/06	2898.03	04/13/11	2895.93
05/09/91	2901.03	05/15/96	2904.03	05/09/01	2896.03	05/10/06	2898.63	05/11/11	2895.83
06/07/91	2902.70	06/19/96	2903.95	06/13/01	2900.61	06/21/06	NA	06/08/11	2895.13
07/09/91	2902.70	07/10/96	2904.11	07/11/01	2901.86	07/12/06	NA	07/13/11	2889.93
08/06/91	2901.62	08/21/96	2904.53	08/08/01	2900.78	08/16/06	NA	08/10/11	2894.83
09/10/91	2902.45	09/11/96	2903.36	09/12/01	2900.78	09/13/06	NA	09/14/11	2892.53
10/08/91	2901.78	10/09/96	2903.53	10/10/01	2900.78	10/18/06	2897.03	10/12/11	2887.73
11/12/91	2902.78	11/13/96	2903.70	11/20/01	2900.78	11/15/06	NA	11/09/11	2887.43
12/10/91	2903.03	12/18/96	2904.03	12/13/01	2900.78	12/20/06	2897.73	12/14/11	2888.23
01/14/92	2903.03	01/08/97	2903.95	01/09/02	2901.03	01/10/07	2897.93		
02/11/92	2903.03	02/12/97	2904.03	02/13/02	2900.78	02/13/07	2897.73		
03/10/92	2903.03	03/12/97	2904.20	03/13/02	2900.85	03/14/07	NA		
04/14/92	2903.03	04/09/97	2903.20	04/10/02	2900.53	04/18/07	NA		
05/12/92	2898.03	05/14/97	2903.45	05/08/02	2900.53	05/16/07	NA		
06/09/92	2903.03	06/11/97	2903.70	06/12/02	2900.78	06/13/07	NA		
07/14/92	2902.45	07/09/97	2903.53	07/10/02	2900.78	07/11/07	NA		
08/11/92	2902.03	08/13/97	2903.45	08/14/02	2900.53	08/08/07	NA		
09/10/92	2903.53	09/10/97	2901.86	09/11/02	2900.28	09/19/07	NA		
10/13/92	2903.53	10/08/97	2903.78	10/09/02	2900.33	10/10/07	NA		
11/10/92	2903.70	11/12/97	2903.70	11/13/02	2900.43	11/14/07	NA		
12/08/92	2905.20	12/10/97	2902.70	12/11/02	2900.33	12/12/07	2896.83		
01/12/93	2905.20	01/14/98	2902.95	01/08/03	2900.33	01/09/08	NA		
02/09/93	2903.78	02/11/98	2902.50	02/12/03	2900.43	02/27/08	NA		
03/09/93	2903.95	03/11/98	2902.95	03/12/03	2900.43	03/12/08	NA		
04/13/93	2903.86	04/08/98	2902.37	04/09/03	2900.43	04/22/08	NA		
05/12/93	2904.03	05/13/98	2902.37	05/21/03	2900.23	05/12/08	NA		
06/09/93	2904.03	06/10/98	2902.28	06/11/03	2900.23	06/11/08	2897.23		
07/14/93	2903.86	07/08/98	2901.86	07/16/03	2899.93	07/09/08	2897.33		
08/11/93	2904.20	08/12/98	2902.11	08/13/03	2899.93	08/27/08	NA		
09/13/93	2903.11	09/09/98	2902.70	09/10/03	2899.83	09/10/08	2897.13		
10/12/93	2904.03	10/20/98	2902.28	10/08/03	2899.83	10/15/08	NA		
11/08/93	2904.11	11/17/98	2902.03	11/12/03	2899.83	11/12/08	2896.63		
12/08/93	2904.20	12/15/98	2902.11	12/10/03	2899.83	12/17/08	NA		
01/12/94	2905.03	01/12/99	2901.20	01/14/04	2900.03	01/14/09	NA		
02/09/94	2905.03	02/11/99	2902.28	02/18/04	NA	02/11/09	2897.13		
03/09/94	2904.95	03/16/99	2901.11	03/10/04	NA	03/11/09	2897.13		
04/13/94	2904.78	04/14/99	2901.37	04/14/04	NA	04/22/09	2897.03		
05/11/94	2904.86	05/12/99	2902.03	05/12/04	NA	05/13/09	2897.23		
06/09/94	2904.78	06/09/99	2901.28	06/16/04	NA	06/09/09	2897.13		
07/13/94	2904.61	07/14/99	2901.78	07/21/04	NA	07/08/09	2896.93		
08/10/94	2904.78	08/11/99	2901.37	08/11/04	NA	08/19/09	2897.13		
09/14/94	2904.86	09/15/99	2901.11	09/08/04	NA	09/16/09	2897.03		
10/12/94	2905.03	10/13/99	2901.70	10/12/04	2898.43	10/14/09	2896.93		
11/09/94	2903.11	11/17/99	2901.37	11/17/04	2898.63	11/12/09	NA		
12/14/94	2903.03	12/08/99	2901.53	12/07/04	2898.73	12/16/09	2898.43		

1. Report updated to reflect that data is from Well K01. Prior to 2009, this data was reported under the Well K02 designation.

NA = NOT AVAILABLE

APPENDIX B
AMES VALLEY WATER BASIN MONITORING PROGRAM
MONTHLY GROUNDWATER SURFACE ELEVATIONS

BDVWA WELL DESIGNATION: BH #1
LOCATION: 02N/06E-18P
ELEVATION: 3,138.94

READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV	READ DATE	WATER SURFACE ELEV
01/02/90	2975.34	01/11/95	2974.94	01/19/00	NA	01/11/05	2969.34	01/14/10	2967.64
02/06/90	2975.52	02/08/95	2975.27	02/14/00	NA	02/15/05	2969.44	02/17/10	2968.24
03/06/90	2975.61	03/08/95	2974.77	03/08/00	NA	03/09/05	2969.14	03/17/10	2968.14
04/10/90	2974.94	04/19/95	2974.27	04/12/00	NA	04/01/05	NA	04/14/10	2968.44
05/02/90	2974.94	05/10/95	2974.19	05/10/00	NA	05/18/05	2969.34	05/12/10	2968.74
06/05/90	2975.53	06/14/95	2974.19	06/14/00	NA	06/01/05	NA	06/10/10	2968.54
07/03/90	2975.69	07/12/95	2974.27	07/18/00	NA	07/13/05	2969.24	07/14/10	2968.44
08/07/90	2975.44	08/30/95	2974.44	08/09/00	NA	08/17/05	2969.44	08/19/10	2968.54
09/12/90	2975.02	09/13/95	2974.36	09/27/00	NA	09/13/05	2968.84	09/08/10	NA
10/02/90	2975.19	10/11/95	2974.52	10/11/00	NA	10/20/05	2968.54	10/13/10	2969.34
11/06/90	2975.27	11/08/95	2973.94	11/08/00	NA	11/22/05	2968.74	11/17/10	2968.54
12/04/90	2976.61	12/27/95	2974.02	12/12/00	NA	12/21/05	2969.74	12/16/10	2968.44
01/08/91	2977.28	01/10/96	2973.61	01/10/01	NA	01/11/06	2969.24	01/12/11	2967.94
02/06/91	2975.34	02/14/96	2973.27	02/14/01	NA	02/07/06	2968.94	02/09/11	2968.84
03/07/91	2975.44	03/13/96	2973.44	03/14/01	NA	03/08/06	2969.24	03/09/11	2968.84
04/04/91	2975.50	04/30/96	2973.61	04/11/01	NA	04/12/06	2979.44	04/13/11	2968.84
05/09/91	2975.52	05/15/96	2973.52	05/09/01	NA	05/10/06	2969.54	05/11/11	2968.94
06/07/91	2975.28	06/19/96	2973.44	06/13/01	NA	06/21/06	NA	06/08/11	2969.04
07/09/91	2975.36	07/10/96	2973.27	07/11/01	NA	07/12/06	NA	07/13/11	2969.24
08/06/91	2975.19	08/21/96	2972.52	08/08/01	NA	08/16/06	2969.34	08/10/11	2969.44
09/10/91	2975.36	09/11/96	2972.11	09/12/01	NA	09/13/06	2969.54	09/14/11	2969.84
10/08/91	2975.36	10/09/96	2972.02	10/10/01	NA	10/18/06	2969.54	10/12/11	2969.74
11/12/91	2975.44	11/13/96	2972.02	11/20/01	NA	11/15/06	2968.84	11/09/11	2969.84
12/10/91	2975.53	12/18/96	2972.44	12/13/01	NA	12/20/06	2971.44	12/14/11	2969.84
01/14/92	2975.52	01/01/97	NA	01/09/02	2970.84	01/10/07	2969.64		
02/11/92	2975.27	02/12/97	2971.02	02/13/02	2970.69	02/13/07	2968.94		
03/10/92	2975.27	03/12/97	2971.11	03/13/02	2970.77	03/14/07	2968.64		
04/14/92	2975.27	04/09/97	NA	04/10/02	2970.02	04/18/07	2969.64		
05/12/92	2975.52	05/14/97	NA	05/08/02	2970.69	05/16/07	2969.64		
06/09/92	2975.36	06/11/97	NA	06/12/02	2970.69	06/13/07	2969.74		
07/14/92	2975.52	07/09/97	NA	07/10/02	2970.69	07/11/07	2970.14		
08/11/92	2975.94	08/13/97	NA	08/14/02	2970.69	08/08/07	2969.74		
09/10/92	2975.94	09/10/97	NA	09/11/02	2970.84	09/19/07	2968.44		
10/13/92	2975.94	10/08/97	NA	10/09/02	2970.94	10/10/07	2969.34		
11/10/92	2975.94	11/12/97	NA	11/13/02	2970.94	11/14/07	2969.44		
12/08/92	2977.94	12/10/97	NA	12/11/02	2969.94	12/12/07	2969.04		
01/12/93	2977.61	01/14/98	NA	01/08/03	2969.94	01/09/08	2968.94		
02/09/93	2975.94	02/11/98	NA	02/12/03	2970.04	02/27/08	2969.24		
03/09/93	2976.11	03/11/98	NA	03/12/03	2970.14	03/12/08	2969.24		
04/13/93	2976.02	04/08/98	NA	04/09/03	2970.24	04/22/08	2969.34		
05/12/93	2976.19	05/13/98	NA	05/21/03	2970.44	05/12/08	2969.24		
06/09/93	2976.11	06/10/98	NA	06/11/03	2970.44	06/11/08	2969.34		
07/14/93	2976.02	07/08/98	NA	07/16/03	2970.94	07/09/08	2969.24		
08/11/93	2976.11	08/12/98	NA	08/13/03	2970.14	08/27/08	NA		
09/13/93	2976.19	09/09/98	NA	09/10/03	2970.04	09/10/08	2969.44		
10/12/93	2976.11	10/20/98	NA	10/08/03	2969.94	10/15/08	2969.04		
11/08/93	2976.02	11/17/98	NA	11/12/03	2969.84	11/12/08	2968.84		
12/08/93	2976.11	12/15/98	NA	12/10/03	2969.84	12/17/08	NA		
01/12/94	2975.93	01/12/99	NA	01/14/04	2969.94	01/14/09	2968.94		
02/09/94	2975.94	02/11/99	NA	02/18/04	2969.94	02/11/09	2968.94		
03/09/94	2976.02	03/16/99	NA	03/10/04	2970.04	03/11/09	2968.94		
04/13/94	2975.44	04/14/99	NA	04/14/04	2970.04	04/22/09	2969.04		
05/11/94	2975.61	05/12/99	NA	05/12/04	2969.94	05/13/09	2968.94		
06/09/94	2975.61	06/09/99	NA	06/16/04	2969.94	06/09/09	2969.04		
07/13/94	2974.86	07/14/99	NA	07/21/04	2969.84	07/08/09	2969.04		
08/10/94	2976.77	08/11/99	NA	08/11/04	2969.74	08/19/09	2968.94		
09/14/94	2976.86	09/15/99	NA	09/08/04	2969.74	09/16/09	2969.14		
10/12/94	2976.94	10/13/99	NA	10/12/04	2968.74	10/14/09	2968.54		
11/09/94	2975.11	11/17/99	NA	11/17/04	2969.44	11/12/09	2968.64		
12/14/94	2975.36	12/08/99	NA	12/07/04	2969.44	12/16/09	2968.44		

NA = NOT AVAILABLE

APPENDIX B
TABLE

AMES VALLEY WATER BASIN MONITORING PROGRAM
SUMMARY OF AMES BASIN GROUNDWATER ELEVATIONS

SEPTEMBER 1993 - SEPTEMBER 2011

APPENDIX B - TABLE
AMES VALLEY WATER BASIN MONITORING PROGRAM
SUMMARY OF AMES BASIN GROUNDWATER ELEVATIONS

Map Point	Bighorn-Desert View Water Agency Local Designations	Location	Status	Well Head Elevation	Water Surface Elevations								
					Sep 1993	Sep 1994	Sep 1995	Sep 1996	Sep 1997	Sep 1998	Sep 1999	Sep 2000	Sep 2001
1	GUBLER FARM WELL	02N/05E-01G01	Dormant	3019.84	2905.59	2905.92	2906.51	2906.09	2905.26	2904.59	2905.51	2903.00	2902.34
2	GUBLER FARM WELL	02N/05E-01H01	Producing	2980.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
3	GUBLER FARM WELL [1]	02N/05E-01K01	Producing	3006.03	2903.11	2904.86	2903.95	2903.36	2901.86	2902.70	2901.11	2898.53	2900.78
4	BDVWA #9	02N/05E-12C025	Producing	3094.47	2922.39	2922.47	2923.47	2921.47	2919.47	2919.47	2912.47	2911.47	2909.47
5	BDVWA #6	02N/05E-12B01	Producing	3059.35	2920.52	2913.52	2915.43	2913.35	2912.60	2910.69	2914.69	2910.35	2911.43
6	BDVWA #7	02N/05E-12B02	Producing	3055.71	2918.04	2916.54	2914.63	2913.79	2913.51	2910.38	2915.46	2911.21	2912.13
7	MORAN WELL	02N/05E-13A	Dormant	3084.98	2943.90	2943.73	2941.23	2939.31	2936.15	2934.06	2932.23	2931.23	2930.98
8	CSA 70 W-1 #1	02N/06E-1801	Producing	3097.73	2866.73	2865.40	2864.56	2861.98	2858.40	2858.06	2858.73	2859.73	2857.48
9	CSA 70 W-1 #2	02N/06E-1802	Producing	3091.22	2867.89	2867.39	2865.55	2863.39	2861.06	2859.30	2858.22	2859.47	2858.55
10	HAYES WELL	02N/05E-23D	Dormant	3448.96	3253.38	NA	NA	NA	NA	NA	NA	NA	NA
11	HDWD #24	02N/05E-24H	Producing	3282.82	3020.15	3011.14	3006.52	3000.98	3001.67	2996.82	2994.97	2999.82	2994.97
12	BDVWA #8	02N/05E-22J01S	Producing	3503.88	3243.96	3242.88	3234.88	3232.88	3239.88	3239.88	3238.88	3238.88	3238.88
13	BDVWA #1	02N/05E-23M	Dormant	3460.41	3249.58	3245.49	NA	NA	NA	NA	NA	NA	NA
14	USGS WELL [2]	02N/05E-27A	---	3469.54	3253.37	3247.54	3243.37	3237.21	3238.12	3238.21	3238.04	3239.54	3238.54
15	BDVWA #3 [3]	02N/05E-27J02	Dormant	3468.34	3248.67	3238.51	3236.42	3235.59	3232.69	3234.42	3237.34	3236.01	3235.34
16	BDVWA #2 [3]	02N/05E-27J01	Dormant	3465.31	3248.56	3239.39	3236.81	3235.64	3233.31	3234.65	3236.98	3237.89	3235.39
17	BDVWA #4	02N/05E-27R	Dormant	3470.17	3254.09	3244.42	3243.09	3236.17	3239.37	3241.17	3240.51	3239.17	3239.84
18	HDWD #6	02N/06E-30N01	Dormant	3367.92	3017.25	3016.00	3016.67	3016.00	3016.50	3020.00	3025.34	3024.76	3025.26
19	HDWD #20	02N/05E-36C	Dormant	3433.69	3152.11	3151.69	3151.77	3154.44	3157.11	3156.19	3155.36	3156.19	3156.11
20	HDWD #21	01N/05E-02A	Dormant	3561.76	NA	NA	NA	NA	NA	NA	NA	NA	NA
21	HDWD #10	01N/06E-17A	Dormant	3309.37	2999.10	3012.26	3022.89	3032.59	3042.29	3047.69	3050.46	3050.46	3048.84
22	CSA 70 W-1 #3 [4]	02N/06E-07Q	Producing	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

NOTES:

1. Data identified in previous reports as Gubler Farm Well K02 data has been identified in this report as Gubler Farm Well K01 data. This is a correction of past reports.
2. The USGS Well is a monitoring well.
3. Well was running to waste in 2009.
4. Well head and historical and current water surface elevations are not measured for this well.

APPENDIX B
TABLE

AMES VALLEY WATER BASIN MONITORING PROGRAM
ELAPSED TIME SINCE COMMENCEMENT OF PRODUCTION BY MAINSTREAM WELL
and
CORRESPONDING CUMULATIVE CHANGE IN WATER LEVEL IN PRODUCTION WELLS

APPENDIX B TABLE
Elapsed Time Since Commencement of Production by Mainstream Well
and Corresponding Cumulative Change in Water Levels
in Production Wells including "Mainstream Well"
(All Amounts in Feet)

	2 Months	3 Months	6 Months	9 Months	12 Months	Dec. 2008	Dec. 2009	Dec. 2010	Dec. 2011
Exhibit "D" [1]	**-7.0**	**-8.0**	**-9.0**	**-10.0**	**-11.0**	**-11.0**	**-11.0**	**-11.0**	**-11.0**
Production Wells									
BDVWA #2 [3]	-1.1	0.3	-6.8	-5.8	-2.0	-23.4[2]	-23.6	-20.9	**-20.9**
BDVWA #3 [3]	-1.0	1.0	-7.0	-7.0	-2.0	-23.2[2]	-23.4	-20.2	**-20.3**
BDVWA #4 [3]	-1.2	-4.1	-5.7	-5.2	-6.0	-23.9[2]	-23.9	-21.8	**-21.3**
BDVWA #6	-2.2	-2.0	-1.3	-5.1	-5.6	-23.5[2]	-22.5	-22.1	**-22.2**
BDVWA #7	-2.0	-2.1	-1.2	-3.0	-3.0	-22.5[2]	-22.7	-23.3	**-21.5**
Gubler Farm Well K01[4]	0.0	-0.1	0.8	0.7	0.6	-7.6[2]	-5.8	-8.3	**-16.0**
CSA 70 W 1 #2	1.0	1.5	3.6	3.3	1.7	-21.3[2]	-17.3	-17.2	**-16.8**
CSA 70 W-1 #1	0.3	0.4	2.4	1.9	0.4	-21.6[2]	-20.6	-20.9	**-18.3**
HDWD #10 [3]	-1.8	2.8	4.6	13.2	10.9	83.0[2]	84.5	87.7	**89.8**
HDWD #24 [5]	-1.9	-2.8	-7.9	-9.3	-3.5	-27.8	-37.0	-32.3	**-27.7**
BDVWA #8	2.0	2.0	3.0	3.0	-2.0	-22.9[2]	-20.3	-22.4	**-19.5**
BDVWA #9	0.0	0.0	0.0	1.0	0.0	-14.0[2]	-13.5	-14	**-15.1**

NOTES:
1. Exhibit "D" from AGREEMENT; cumulative water level change in feet over time period
2. November reading
3. Well is offline
4. Previously identified as Gubler Farm Well K02. Report has been updated to accurately identify origin of data, which is from Gubler Farm Well K01.
5. "Mainstream Well"

APPENDIX B
TABLE

AMES VALLEY WATER BASIN MONITORING PROGRAM
ELAPSED TIME SINCE COMMENCEMENT OF PRODUCTION
BY MAINSTREAM WELL
And
CORRESPONDING CUMULATIVE CHANGE IN WATER
LEVEL IN OTHER WELLS

APPENDIX B TABLE
Elapsed Time Since Commencement of Production by Mainstream Well and Corresponding Cumulative Change in Water Levels in Other Wells
(All Amounts in Feet)

	2 Months	3 Months	6 Months	9 Months	12 Months	Dec. 2008	Dec. 2009	Dec. 2010	Dec. 2011
Exhibit "D" [1]	**-2.0**	**-3.0**	**-3.0**	**-3.0**	**-4.0**	**-4.0**	**-4.0**	**-4.0**	**-4.0**
Other Wells									
BDVWA #1 [2]	-1.2	-1.2	2.2	-1.0	-1.3	NA	NA	**NA**	**NA**
Hayes Well [2]	-1.7	-1.5	-1.4	-1.3	0.5	NA	NA	**NA**	**NA**
USGS Well	-1.8	-2.5	-4.2	-4.8	-5.0	-26.6[3]	-25.6	**-25.0**	**-24.1**
Moran Well [2]	0.1	0.1	0.2	0.1	1.3	NA	NA	**NA**	**NA**
Gubler Farm Well G01	0.0	0.0	0.1	0.2	0.3	-7.5[3]	-8.3	**-8.8**	**-9.3**
HDWD #6 [2]	-0.4	-0.3	0.1	-0.8	-0.1	-5.5[3]	-7.5	**-4.5**	**0.7**
HDWD #20 [2]	0.6	0.1	0.4	-0.6	1.4	-0.9[3]	2.9	**4.0**	**0.0**
HDWD #21 [2]	NA	NA	NA	NA	NA	74.5[3]	77.1	**81.0**	**84.1**

NOTES:
1. Exhibit "D" from AGREEMENT; cumulative water level change in feet over time period
2. Well is offline
3. November reading

APPENDIX C

AMES VALLEY WATER BASIN MONITORING PROGRAM
WATER QUALITY DATA SUBMITTED
FOR 2011 REPORT

Well No.

HDWD #24

BDVWA #2

BDVWA #3

BDVWA #6

BDVWA #7

BDVWA #8

BDVWA #9

CSA 70/W-1 #1

CSA 70/W-1 #2

CSA 70/W-1 #3

GUBLER FARM WELL K01

WATER QUALITY

HDWD #24

E.S.BABCOCK&Sons,Inc.
Environmental Laboratories est 1906

Hi-Desert Water District
Steve Schwab
55439 29 Palms Hwy
Yucca Valley CA, 92284-2503

Received: 11/02/11 15:30
Received on Ice (Y/N): Yes Temperature: 4 ° C

Project: Hi-Desert WD-DWcc
Project Number: Ames Basin - Well 24
Project Manager: Steve Schwab
Reported: 11/11/2011
Work Order **A1K0300**

California Drinking Water regulations require that the results for specific sources be reported to the State in electronic format. The notation "EDT" will appear on the header page of each report if this information has been sent to the State database. Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). If you have any questions or concerns regarding this report please contact our client service department.

The following samples are included in this report:

Lab Number	Sample Name	Sampled	Sampled By	Received	Submitted By
A1K0300-01	Well 24 3610073-023	11/02/11 7:53	Steve Schwab	11/02/11 15:30	Jason Cabral

mailing
P.O. Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
www.babcocklabs.com

NELAP no. 02101CA
CA Elap no. 2698
EPA no. CA00102

E.S.BABCOCK&Sons,Inc.
Environmental Laboratories est 1906

GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99) EDT

Date of Report: 11/11/11
Laboratory Name: E.S. Babcock & Sons, Inc.
Name of Sampler: Steve Schwab
Date/Time Sample Collected: 11/11/02 07:53
Sample ID No. A1K0300-01
Project Manager: Deanna L. Bailey For Lorenzo (Z) ~~Rodriguez~~
Employed By: Hi-Desert Water District
Date/Time Sample Received @ Lab: 11/11/02 15:30
Date Analyses Completed: 11/11/10

System Name: HI DESERT WD
System Number: 3610073
Name or Number of Sample Source: WELL 24E

User ID: TAN
Date/Time of Sample: 11/11/02 07:53 (YY MM DD TTTT)
Station Number: 3610073-023
Laboratory Code: 4790 (YY MM DD)
Date Analyses Completed: 11/11/10
Submitted by: _____
Phone # _____

MCL	REPORTING UNITS	CHEMICAL		ENTRY #	ANALYSES RESULTS	DLR
	mg/L	Total Hardness		00900	140	
	mg/L	Calcium		00916	42	
	mg/L	Magnesium		00927	8.0	
	mg/L	Sodium		00929	35	
	mg/L	Potassium		00937	2.3	
Total Cations		Me/L Value	4.35			
	mg/L	Total Alkalinity		00410	160	
	mg/L	Hydroxide		71830	< 3.0	
	mg/L	Carbonate		00445	< 3.0	
	mg/L	Bicarbonate		00440	200	
*	mg/L+	Sulfate		00945	19	0.50
*	mg/L+	Chloride		00940	11	
45	mg/L	Nitrate		71850	5.4	2.0
Total Anions		Me/L Value	4.07			
**	mg/L	Fluoride		00951	0.6	0.1
Total Anions + Fluoride		Me/L Value	4.10			
9	Std.Units+	pH		00403	7.8	
***	umho/cm+	Specific Conductance		00095	430	
****	mg/L+	Total Dissolved Solids		70300	220	
0.5	mg/L+	MBAS		38260	< 0.05	

mailing P.O. Box 432 Riverside, CA 92502-0432 | *location* 6100 Quail Valley Court Riverside, CA 92507-0704 | P 951 653 3351 F 951 653 1662 www.babcocklabs.com | NELAP no. 02101CA CA Elap no. 2698 EPA no. CA00102

Page 2 of 2- Mineral, Physical and Inorganic Chemicals Form Sample ID No. A1K0300-01

MCL	REPORTING UNITS	CHEMICAL	ENTRY #	ANALYSES RESULTS		DLR
		INORGANIC CHEMICALS				
1000	ug/L	Aluminum	01105	<	50	50
6	ug/L	Antimony	01097	<	6.0	6.0
10	ug/L	Arsenic	01002		2.9	2.0
1000	ug/L	Barium	01007	<	100	100
4	ug/L	Beryllium	01012	<	1.0	1.0
5	ug/L	Cadmium	01027	<	1.0	1.0
50	ug/L	Total Chromium	01034		2.2	1.0
1000	ug/L+	Copper	01042	<	50	50
300	ug/L+	Iron	01045	<	100	100
15	ug/L	Lead	01051	<	5.0	5.0
50	ug/L+	Manganese	01055	<	20	20
2	ug/L	Mercury	71900	<	1.0	1.0
100	ug/L	Nickel	01067	<	10	10
50	ug/L	Selenium	01147	<	5.0	5.0
100	ug/L+	Silver	01077	<	10	10
2	ug/L	Thallium	01059	<	1.0	1.0
5000	ug/L	Zinc	01092	<	50	50
		ADDITIONAL ANALYSES				
	ug/L	Cyanide	01291	<	100	100
		ADDITIONAL ANALYSES				
6	ug/L	Perchlorate	A-031	<	4.0	4.0
1000	ug/L	Nitrite as N	00620	<	100	100

* 250-500-600 ** 0.6-1.7 *** 900-1600-2200 **** 500-1000-1500 + Indicates Secondary Drinking Water Standards

mailing P.O. Box 432 | *location* 6100 Quail Valley Court | P 951 653 3351 F 951 653 1662 | NELAP no. 02101CA CA Elap no. 2698

EDT

RADIOACTIVITY ANALYSIS (9/99)

Sample ID No.998349/A1K0348-01

Date of Report: 11/11/22
Laboratory Name: TRUESDAIL LABS
Name of Sampler:Steve Schwab
Date/Time Sample Collected:11/11/02/0753

Signature Lab Director: _____
Employed By: Hi-Desert WD
Date/Time Sample Received @ Lab:11/11/07/1000
Date Analyses Completed:11/11/21

System Name:HI DESERT WD
Name or Number of Sample Source:WELL 24E

System Number: 3610073

* User ID: TAN
* Date/Time of Sample: |11|11|02|0753|
* YY MM DD TTTT
*
* Submitted by: _____

Station Number: 3610073-023 *
Laboratory Code: 9469 *
YY MM DD *
Date Analysis completed: |11|11|21| *
Phone #: _____ *

MCL	REPORT UNITS	CHEMICAL	STORET CODE	ANALYSES RESULTS	DLR
	pCi/L	TITLE 22 CALIFORNIA CODE OF REGULATIONS			
	pCi/L	SECTION 64442 (22 CCR 64442)			
15	pCi/L	Gross Alpha	01501	9.52	3.0
	pCi/L	Gross Alpha Counting Error	01502	2.30	
	pCi/L	Gross Alpha MDA95 *	A-072		
20	pCi/L	Uranium	28012	10.4	1.0
	pCi/L	Uranium Counting Error	A-028	1.46	
	pCi/L	Uranium MDA95	A-073		
	pCi/L	Radium 226	09501		1.0
	pCi/L	Radium 226 Counting Error	09502		
	pCi/L	Radium 226 MDA95	A-074		
	pCi/L	Radium 228	11501		1.0
	pCi/L	Radium 228 Counting Error	11502		
	pCi/L	Radium 228 MDA95	A-075		
5	pCi/L	Ra 226 + Ra 228, Combined	11503		
	pCi/L	Ra 226 + Ra 228 Counting Error, Combined	11504		
	pCi/L	Ra 226 + Ra 229 MDA95, Combined	A-076		
	pCi/L	RADIUM, TOTAL, (FOR NTNC ONLY, BY 903.0)			
	pCi/L	Ra-226 for CWS or Tot RA for NTNC by 903	A-080		
	pCi/L	Ra-226 or Total RA by 903.0 C.E.	A-081		
	pCi/L	Ra-226 or Total RA by 903.0 MDA95	A-082		
	pCi/L	TITLE 22 CALIFORNIA CODE OF REGULATIONS			
	pCi/L	SECTION 64443 (22 CCR 64443)			
50	pCi/L	Gross Beta	03501		4.(
	pCi/L	Gross Beta Counting Error	03502		

	pCi/L Gross Beta MDA95	A-077		
4	pCi/L Gross Beta, Calculated Dose Equivalent *	A-071		
8	pCi/L Strontium 90	13501		2.0
	pCi/L Strontium 90 Counting Error	13502		
	pCi/L Strontium 90 MDA95	A-078		
20000	pCi/L Tritium	07000		1000
	pCi/L Tritium Counting Error	07001		
	pCi/L Tritium MDA95	A-079		
	pCi/L RADON			
	pCi/L Radon 222	82303		100.0
	pCi/L Radon 222 Counting Error	82302		
	pCi/L			
	pCi/L *MDA95 is Minimum Detectable Activity at			
	pCi/L the 95% confidence level, per			
	pCi/L 22 CCR 64442 and 64443.			
	pCi/L			
	pCi/L **Gross Beta, Calculated Total Body or			
	pCi/L Organ Dose Equivalent, Per 22 CCR 64443			
	pCi/L			

SUBCONTRACT ORDER Printed: 11/3/2011 12:01

E.S. Babcock & Sons, Inc.

A1K0348 998 349

SENDING LABORATORY:

E.S. Babcock & Sons, Inc.
P. O. Box 432
Riverside, CA 92502-0432
Phone: (951) 653-3351
Fax: (951) 653-1662
Project Manager: Lorenzo (Z) Rodriguez

RECEIVING LABORATORY:

Truesdail Laboratories - Subcontract
14201 Franklin Avenue
Tustin, CA 92780
Phone :(714) 730-6239
Fax: (714) 730-6462

S 8a

Copy/Relog from A1K0300.
STATE FORM - EDT
System Name: Hi-Desert Water District
Sampler: Steve Schwab
Sampler Employed By: Hi-Desert Water District

Analysis	Due	Expires Regulatory Days Past Date Sampled	Laboratory ID	Comments
Sample ID: A1K0348-01 Water		**Sampled: 11/02/11 07:53**	**Well 24 3610073-023**	*Proj.No.:*Ames Basin - Well 24 11/02/11
Radio-Gross Alpha	12/02/11 17:00	04/30/12 07:53	If GAR > 5 Run Uranium	
Containers Supplied:				
Quart Poly - HNO3 (A)	Quart Poly - HNO3 (B)			

For Sample Conditions
See Form Attached

All Containers Intact: ____ Yes ____ No Samples Preserved Properly: ____ Yes ____ No

Samples Received at ____ oC Sample Lables / COC Agree: ____ Yes ____ No Custody Seals Present: ____ Yes ____ No

Please forward all acknowledgements of sample receipt, final reports and invoices to data@babcocklabs.com
NO HARDCOPIES PLEASE.

Released By	Date	Received By	Date
	11/4/2011		NOV 07 2011 10 am
Released By	Date	Received By	Date

WATER QUALITY
BDVWA WELLS

Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11L0732
622 S. Jemez Trail	Sub Project: 4th Quarter Alpha/Uranium	Received: 12/12/11 17:25
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/21/11

Well 2 — 11L0732-01 (Water) — Sample Date: 12/12/11 10:05 — Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	18	pCi/L	3.0	15	12/16/11	12/20/11	1151440	
Gross Alpha Counting Error	EPA 900.0	3.2	pCi/L			12/16/11	12/20/11	1151440	
Gross Alpha Min Det Activity	EPA 900.0	1.8	pCi/L			12/16/11	12/20/11	1151440	
Uranium	EPA 908.0	18	pCi/L	1.0	20	12/14/11	12/15/11	1151043	
Uranium Counting Error	EPA 908.0	1.8	pCi/L			12/14/11	12/15/11	1151043	
Uranium Min Det Activity	EPA 908.0	0.87	pCi/L			12/14/11	12/15/11	1151043	

Well 3 — 11L0732-02 (Water) — Sample Date: 12/12/11 10:10 — Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	21	pCi/L	3.0	15	12/16/11	12/20/11	1151440	
Gross Alpha Counting Error	EPA 900.0	3.3	pCi/L			12/16/11	12/20/11	1151440	
Gross Alpha Min Det Activity	EPA 900.0	1.3	pCi/L			12/16/11	12/20/11	1151440	
Uranium	EPA 908.0	21	pCi/L	1.0	20	12/14/11	12/15/11	1151043	
Uranium Counting Error	EPA 908.0	2.0	pCi/L			12/14/11	12/15/11	1151043	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			12/14/11	12/15/11	1151043	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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DEC 27 2011
By

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1114
622 S. Jemez Trail	Sub Project:	Received: 11/14/11 16:56
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 11/29/11

Well 3 **11K1114-01 (Water)** **Sample Date: 11/14/11 10:35** **Sampler: Kit Boyd**

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	11/17/11	11/17/11	1147268	
Fluoride (F)	EPA 300.0	0.71	mg/L	0.10	2	11/15/11	11/15/11	1147250	
Nitrate (NO3)	EPA 300.0	6.6	mg/L	2.0	45	11/15/11	11/15/11	1147250	
Nitrate + Nitrite (as N)	EPA 300.0	1500	ug/L	400	10000	11/15/11	11/15/11	1147250	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	11/15/11	11/15/11	1147250	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	11/15/11	11/16/11	1147200	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	11/21/11	11/21/11	1147405	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	11/18/11	11/18/11	1147374	
Arsenic (As)	SM3113-B	2.6	ug/L	2.0	10	11/17/11	11/17/11	1147267	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	11/21/11	11/21/11	1147405	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	11/16/11	11/16/11	1147251	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	11/16/11	11/16/11	1147251	
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	11/16/11	11/16/11	1147251	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		11/18/11	11/18/11	1147361	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	11/23/11	11/28/11	1148162	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	11/16/11	11/16/11	1147251	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	11/16/11	11/16/11	1147229	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	11/16/11	11/16/11	1147251	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	11/16/11	11/16/11	1147194	
Vanadium (V)	EPA 200.9	12	ug/L	3.0		11/18/11	11/18/11	1147391	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	15	pCi/L	3.0	15	11/18/11	11/18/11	1146415	
Gross Alpha Counting Error	EPA 900.0	2.8	pCi/L			11/18/11	11/18/11	1146415	
Gross Alpha Min Det Activity	EPA 900.0	1.6	pCi/L			11/18/11	11/18/11	1146415	
Uranium	EPA 908.0	15	pCi/L	1.0	20	11/16/11	11/17/11	1146319	
Uranium Counting Error	EPA 908.0	1.6	pCi/L			11/16/11	11/17/11	1146319	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			11/16/11	11/17/11	1146319	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11L0732
622 S. Jemez Trail	Sub Project: 4th Quarter Alpha/Uranium	Received: 12/12/11 17:25
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/21/11

Well 2 11L0732-01 (Water) Sample Date: 12/12/11 10:05 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	18	pCi/L	3.0	15	12/16/11	12/20/11	1151440	
Gross Alpha Counting Error	EPA 900.0	3.2	pCi/L			12/16/11	12/20/11	1151440	
Gross Alpha Min Det Activity	EPA 900.0	1.8	pCi/L			12/16/11	12/20/11	1151440	
Uranium	EPA 908.0	18	pCi/L	1.0	20	12/14/11	12/15/11	1151043	
Uranium Counting Error	EPA 908.0	1.8	pCi/L			12/14/11	12/15/11	1151043	
Uranium Min Det Activity	EPA 908.0	0.87	pCi/L			12/14/11	12/15/11	1151043	

Well 3 11L0732-02 (Water) Sample Date: 12/12/11 10:10 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	21	pCi/L	3.0	15	12/16/11	12/20/11	1151440	
Gross Alpha Counting Error	EPA 900.0	3.3	pCi/L			12/16/11	12/20/11	1151440	
Gross Alpha Min Det Activity	EPA 900.0	1.3	pCi/L			12/16/11	12/20/11	1151440	
Uranium	EPA 908.0	21	pCi/L	1.0	20	12/14/11	12/15/11	1151043	
Uranium Counting Error	EPA 908.0	2.0	pCi/L			12/14/11	12/15/11	1151043	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			12/14/11	12/15/11	1151043	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11L0193
622 S. Jemez Trail	Sub Project:	Received: 12/05/11 17:15
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/23/11

Well 3 11L0193-01 (Water) Sample Date: 12/05/11 10:36 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	180	mg/L	5.0		12/05/11	12/06/11	1150021	
Bicarbonate (HCO3)	SM 2320 B	220	mg/L	5.0		12/05/11	12/06/11	1150021	
Calcium (Ca)	SM3500CaD	57	mg/L	1.0		12/05/11	12/06/11	1150021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/05/11	12/06/11	1150021	
Chloride (Cl)	EPA 300.0	32	mg/L	1.0	500	12/06/11	12/06/11	1150251	
Specific Conductance (E.C.)	SM 2510B	550	umhos/cm	2.0	1600	12/05/11	12/06/11	1150021	
Fluoride (F)	EPA 300.0	0.65	mg/L	0.10	2	12/06/11	12/06/11	1150251	
Hardness, Total (as CaCO3)	SM 2340 C	180	mg/L	5.0		12/05/11	12/06/11	1150021	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/05/11	12/06/11	1150021	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	12/07/11	12/07/11	1151200	
Nitrate (NO3)	EPA 300.0	6.3	mg/L	2.0	45	12/06/11	12/06/11	1150251	
pH (Lab)	SM 4500HB	8.0	pH Units			12/06/11	12/06/11	1150021	
Sulfate (SO4)	EPA 300.0	44	mg/L	0.50	500	12/06/11	12/06/11	1150251	
Total Filterable Residue/TDS	SM 2540C	320	mg/L	5.0	1000	12/08/11	12/09/11	1150248	
Metals									
Boron (B)	EPA 200.7	160	ug/L	100		12/08/11	12/08/11	1150250	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	12/08/11	12/08/11	1150250	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	12/08/11	12/08/11	1150250	
Magnesium (Mg)	EPA 200.7	11	mg/L	1.0		12/08/11	12/08/11	1150305	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	12/08/11	12/08/11	1150250	
Potassium (K)	EPA 200.7	3.7	mg/L	1.0		12/08/11	12/08/11	1150305	
Sodium (Na)	EPA 200.7	44	mg/L	1.0		12/08/11	12/08/11	1150305	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	12/08/11	12/08/11	1150250	
Anion / Cation Balance									
Total Anions	Calculated	5.56	meq/L	0.62		12/08/11	12/06/11	[CALC]	
Total Cations	Calculated	5.76	meq/L	0.20		12/08/11	12/08/11	[CALC]	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1114
622 S. Jemez Trail	Sub Project:	Received: 11/14/11 16:56
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 11/29/11

Well 6 11K1114-02 (Water) **Sample Date: 11/14/11 8:32 Sampler: Kit Boyd**

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	11/17/11	11/17/11	1147268	
Fluoride (F)	EPA 300.0	0.97	mg/L	0.10	2	11/15/11	11/15/11	1147250	
Nitrate (NO3)	EPA 300.0	7.1	mg/L	2.0	45	11/15/11	11/15/11	1147250	
Nitrate + Nitrite (as N)	EPA 300.0	1600	ug/L	400	10000	11/15/11	11/15/11	1147250	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	11/15/11	11/15/11	1147250	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	11/15/11	11/16/11	1147200	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	11/21/11	11/21/11	1147405	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	11/18/11	11/18/11	1147374	
Arsenic (As)	SM3113-B	2.5	ug/L	2.0	10	11/17/11	11/17/11	1147267	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	11/21/11	11/21/11	1147405	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	11/16/11	11/16/11	1147251	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	11/16/11	11/16/11	1147251	
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	11/16/11	11/16/11	1147251	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		11/18/11	11/18/11	1147361	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	11/23/11	11/28/11	1148162	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	11/16/11	11/16/11	1147251	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	11/16/11	11/16/11	1147229	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	11/16/11	11/16/11	1147251	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	11/16/11	11/16/11	1147194	
Vanadium (V)	EPA 200.9	5.7	ug/L	3.0		11/18/11	11/18/11	1147391	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	7.7	pCi/L	3.0	15	11/18/11	11/18/11	1146415	
Gross Alpha Counting Error	EPA 900.0	1.7	pCi/L			11/18/11	11/18/11	1146415	
Gross Alpha Min Det Activity	EPA 900.0	1.0	pCi/L			11/18/11	11/18/11	1146415	
Uranium	EPA 908.0	6.6	pCi/L	1.0	20	11/16/11	11/17/11	1146319	
Uranium Counting Error	EPA 908.0	1.0	pCi/L			11/16/11	11/17/11	1146319	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			11/16/11	11/17/11	1146319	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11L0193
622 S. Jemez Trail	Sub Project:	Received: 12/05/11 17:15
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/23/11

Well 6 **11L0193-02 (Water)** **Sample Date: 12/05/11 9:35** **Sampler: Kit Boyd**

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		12/05/11	12/06/11	1150021	
Bicarbonate (HCO3)	SM 2320 B	190	mg/L	5.0		12/05/11	12/06/11	1150021	
Calcium (Ca)	SM3500CaD	42	mg/L	1.0		12/05/11	12/06/11	1150021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/05/11	12/06/11	1150021	
Chloride (Cl)	EPA 300.0	18	mg/L	1.0	500	12/06/11	12/06/11	1150251	
Specific Conductance (E.C.)	SM 2510B	440	umhos/cm	2.0	1600	12/05/11	12/06/11	1150021	
Fluoride (F)	EPA 300.0	0.94	mg/L	0.10	2	12/06/11	12/06/11	1150251	
Hardness, Total (as CaCO3)	SM 2340 C	130	mg/L	5.0		12/05/11	12/06/11	1150021	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/05/11	12/06/11	1150021	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	12/07/11	12/07/11	1151200	
Nitrate (NO3)	EPA 300.0	7.1	mg/L	2.0	45	12/06/11	12/06/11	1150251	
pH (Lab)	SM 4500HB	8.0	pH Units			12/06/11	12/06/11	1150021	
Sulfate (SO4)	EPA 300.0	34	mg/L	0.50	500	12/06/11	12/06/11	1150251	
Total Filterable Residue/TDS	SM 2540C	260	mg/L	5.0	1000	12/08/11	12/09/11	1150248	
Metals									
Boron (B)	EPA 200.7	130	ug/L	100		12/08/11	12/08/11	1150250	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	12/08/11	12/08/11	1150250	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	12/08/11	12/08/11	1150250	
Magnesium (Mg)	EPA 200.7	6.4	mg/L	1.0		12/08/11	12/08/11	1150305	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	12/08/11	12/08/11	1150250	
Potassium (K)	EPA 200.7	2.4	mg/L	1.0		12/08/11	12/08/11	1150305	
Sodium (Na)	EPA 200.7	45	mg/L	1.0		12/08/11	12/08/11	1150305	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	12/08/11	12/08/11	1150250	
Anion / Cation Balance									
Total Anions	Calculated	4.49	meq/L	0.62		12/08/11	12/06/11	[CALC]	
Total Cations	Calculated	4.65	meq/L	0.20		12/08/11	12/08/11	[CALC]	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1114
622 S. Jemez Trail	Sub Project:	Received: 11/14/11 16:56
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 11/29/11

Well 7 11K1114-03 (Water) Sample Date: 11/14/11 8:16 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	20.0	°C			11/14/11	11/21/11	1147141	
General Physical Analyses									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	11/15/11	11/15/11	1147109	
Odor Threshold	EPA 140.1M	1	TON	1	3	11/15/11	11/15/11	1147109	
Turbidity	EPA 180.1	0.2	NTU	0.1	5	11/15/11	11/15/11	1147109	
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	160	mg/L	5.0		11/15/11	11/21/11	1147141	
Bicarbonate (HCO3)	SM 2320 B	200	mg/L	5.0		11/15/11	11/21/11	1147141	
Calcium (Ca)	SM3500CaD	41	mg/L	1.0		11/15/11	11/21/11	1147141	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/15/11	11/21/11	1147141	
Chloride (Cl)	EPA 300.0	18	mg/L	1.0	500	11/15/11	11/15/11	1147250	
Langelier Index at Source Tmp	SM 203	0.11				11/14/11	11/21/11	1147141	
Langelier Index at 60 C	SM 203	0.72				11/14/11	11/21/11	1147141	
Aggressive Index	SM 203	11.92				11/14/11	11/21/11	1147141	
Specific Conductance (E.C.)	SM 2510B	450	umhos/cm	2.0	1600	11/15/11	11/21/11	1147141	
Fluoride (F)	EPA 300.0	1.1	mg/L	0.10	2	11/15/11	11/15/11	1147250	
Hardness, Total (as CaCO3)	SM 2340 C	130	mg/L	5.0		11/15/11	11/21/11	1147141	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/15/11	11/21/11	1147141	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	11/16/11	11/16/11	1147416	
Nitrate (NO3)	EPA 300.0	8.0	mg/L	2.0	45	11/15/11	11/15/11	1147250	
pH (Lab)	SM 4500HB	7.7	pH Units			11/15/11	11/15/11	1147141	
Sulfate (SO4)	EPA 300.0	33	mg/L	0.50	500	11/15/11	11/15/11	1147250	
Total Filterable Residue/TDS	SM 2540C	250	mg/L	5.0	1000	11/17/11	11/18/11	1147300	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	11/21/11	11/21/11	1147405	
Boron (B)	EPA 200.7	120	ug/L	100		11/21/11	11/21/11	1147405	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	11/21/11	11/21/11	1147405	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	11/21/11	11/21/11	1147405	
Magnesium (Mg)	EPA 200.7	7.3	mg/L	1.0		11/18/11	11/18/11	1147376	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	11/21/11	11/21/11	1147405	
Potassium (K)	EPA 200.7	2.5	mg/L	1.0		11/18/11	11/18/11	1147376	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	11/16/11	11/16/11	1147251	
Sodium (Na)	EPA 200.7	48	mg/L	1.0		11/18/11	11/18/11	1147376	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	11/21/11	11/21/11	1147405	
Anion / Cation Balance									
Total Anions	Calculated	4.66	meq/L	0.62		11/18/11	11/21/11	[CALC]	
Total Cations	Calculated	4.8	meq/L	0.20		11/18/11	11/18/11	[CALC]	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1114
622 S. Jemez Trail	Sub Project:	Received: 11/14/11 16:56
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 11/29/11

Well 7 — 11K1114-03 (Water) — Sample Date: 11/14/11 8:16 — Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	6.7	pCi/L	3.0	15	11/23/11	11/29/11	1149005	
Gross Alpha Counting Error	EPA 900.0	1.7	pCi/L			11/23/11	11/29/11	1149005	
Gross Alpha Min Det Activity	EPA 900.0	1.3	pCi/L			11/23/11	11/29/11	1149005	
Uranium	EPA 908.0	9.3	pCi/L	1.0	20	11/16/11	11/17/11	1146319	
Uranium Counting Error	EPA 908.0	1.3	pCi/L			11/16/11	11/17/11	1146319	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			11/16/11	11/17/11	1146319	

Well 9 — 11K1114-04 (Water) — Sample Date: 11/14/11 8:50 — Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	5.4	pCi/L	3.0	15	11/18/11	11/18/11	1146415	
Gross Alpha Counting Error	EPA 900.0	1.6	pCi/L			11/18/11	11/18/11	1146415	
Gross Alpha Min Det Activity	EPA 900.0	1.2	pCi/L			11/18/11	11/18/11	1146415	
Uranium	EPA 908.0	5.7	pCi/L	1.0	20	11/16/11	11/17/11	1146319	
Uranium Counting Error	EPA 908.0	0.95	pCi/L			11/16/11	11/17/11	1146319	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			11/16/11	11/17/11	1146319	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11L0193
622 S. Jemez Trail	Sub Project:	Received: 12/05/11 17:15
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/23/11

Well 8 11L0193-03 (Water) Sample Date: 12/05/11 10:58 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	120	mg/L	5.0		12/05/11	12/06/11	1150021	
Bicarbonate (HCO3)	SM 2320 B	150	mg/L	5.0		12/05/11	12/06/11	1150021	
Calcium (Ca)	SM3500CaD	20	mg/L	1.0		12/05/11	12/06/11	1150021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/05/11	12/06/11	1150021	
Chloride (Cl)	EPA 300.0	30	mg/L	1.0	500	12/06/11	12/06/11	1150251	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	12/12/11	12/12/11	1151012	
Specific Conductance (E.C.)	SM 2510B	450	umhos/cm	2.0	1600	12/05/11	12/06/11	1150021	
Fluoride (F)	EPA 300.0	0.67	mg/L	0.10	2	12/06/11	12/06/11	1150251	
Hardness, Total (as CaCO3)	SM 2340 C	59	mg/L	5.0		12/05/11	12/06/11	1150021	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/05/11	12/06/11	1150021	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	12/07/11	12/07/11	1151200	
Nitrate (NO3)	EPA 300.0	7.8	mg/L	2.0	45	12/06/11	12/06/11	1150251	
Nitrate + Nitrite (as N)	EPA 300.0	1800	ug/L	400	10000	12/06/11	12/06/11	1150251	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	12/06/11	12/06/11	1150251	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	12/06/11	12/07/11	1150151	
pH (Lab)	SM 4500HB	8.3	pH Units			12/06/11	12/06/11	1150021	
Sulfate (SO4)	EPA 300.0	45	mg/L	0.50	500	12/06/11	12/06/11	1150251	
Total Filterable Residue/TDS	SM 2540C	270	mg/L	5.0	1000	12/08/11	12/09/11	1150248	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	12/08/11	12/09/11	1150250	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	12/12/11	12/12/11	1151007	
Arsenic (As)	SM3113-B	5.9	ug/L	2.0	10	12/06/11	12/07/11	1150049	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	12/08/11	12/09/11	1150250	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	12/14/11	12/14/11	1151267	
Boron (B)	EPA 200.7	ND	ug/L	100		12/08/11	12/09/11	1150250	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	12/14/11	12/14/11	1151267	
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	12/14/11	12/14/11	1151267	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	12/08/11	12/09/11	1150250	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	12/08/11	12/09/11	1150250	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		12/08/11	12/08/11	1150259	
Magnesium (Mg)	EPA 200.7	1.6	mg/L	1.0		12/08/11	12/08/11	1150305	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	12/08/11	12/09/11	1150250	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	12/13/11	12/13/11	1151074	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	12/14/11	12/14/11	1151267	
Potassium (K)	EPA 200.7	2.1	mg/L	1.0		12/08/11	12/08/11	1150305	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	12/08/11	12/08/11	1150243	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	12/14/11	12/14/11	1151267	
Sodium (Na)	EPA 200.7	74	mg/L	1.0		12/08/11	12/08/11	1150305	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	12/12/11	12/12/11	1151022	
Vanadium (V)	EPA 200.9	11	ug/L	3.0		12/08/11	12/08/11	1150244	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11L0193
622 S. Jomez Trail	Sub Project:	Received: 12/05/11 17:15
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/23/11

Well 8 11L0193-03 (Water) **Sample Date:** 12/05/11 10:58 **Sampler:** Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	12/08/11	12/09/11	1150250	
Anion / Cation Balance									
Total Anions	Calculated	4.4	meq/L	0.62		12/08/11	12/06/11	[CALC]	
Total Cations	Calculated	4.4	meq/L	0.20		12/08/11	12/08/11	[CALC]	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	ND	pCi/L	3.0	15	12/09/11	12/09/11	1149400	
Gross Alpha Counting Error	EPA 900.0	1.2	pCi/L			12/09/11	12/09/11	1149400	
Gross Alpha Min Det Activity	EPA 900.0	1.2	pCi/L			12/09/11	12/09/11	1149400	
Uranium	EPA 908.0	2.6	pCi/L	1.0	20	12/13/11	12/15/11	1151043	
Uranium Counting Error	EPA 908.0	0.75	pCi/L			12/13/11	12/15/11	1151043	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			12/13/11	12/15/11	1151043	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1114
622 S. Jemez Trail	Sub Project:	Received: 11/14/11 16:56
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 11/29/11

Well 7 11K1114-03 (Water) Sample Date: 11/14/11 8:16 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	6.7	pCi/L	3.0	15	11/23/11	11/29/11	1149005	
Gross Alpha Counting Error	EPA 900.0	1.7	pCi/L			11/23/11	11/29/11	1149005	
Gross Alpha Min Det Activity	EPA 900.0	1.3	pCi/L			11/23/11	11/29/11	1149005	
Uranium	EPA 908.0	9.3	pCi/L	1.0	20	11/16/11	11/17/11	1146319	
Uranium Counting Error	EPA 908.0	1.3	pCi/L			11/16/11	11/17/11	1146319	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			11/16/11	11/17/11	1146319	

Well 9 11K1114-04 (Water) Sample Date: 11/14/11 8:50 Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	5.4	pCi/L	3.0	15	11/18/11	11/18/11	1146415	
Gross Alpha Counting Error	EPA 900.0	1.6	pCi/L			11/18/11	11/18/11	1146415	
Gross Alpha Min Det Activity	EPA 900.0	1.2	pCi/L			11/18/11	11/18/11	1146415	
Uranium	EPA 908.0	5.7	pCi/L	1.0	20	11/16/11	11/17/11	1146319	
Uranium Counting Error	EPA 908.0	0.95	pCi/L			11/16/11	11/17/11	1146319	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			11/16/11	11/17/11	1146319	

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WATER QUALITY

CSA 70/ W-1 WELLS

Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11B1309
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/16/11 16:30
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/04/11

Well 1 **11B1309-01 (Water)** **Sample Date:** 02/16/11 10:45 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	**20.2**	°C			02/16/11	02/16/11	1108364	
General Physical Analyses									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	02/17/11	02/17/11	1108318	
Odor Threshold	EPA 140.1M	**1**	TON	1	3	02/17/11	02/17/11	1108318	
Turbidity	EPA 180.1	**0.1**	NTU	0.1	5	02/17/11	02/17/11	1108318	
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**120**	mg/L	5.0		02/18/11	02/18/11	1108377	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		02/18/11	02/18/11	1108377	
Calcium (Ca)	SM3500CaD	**29**	mg/L	1.0		02/18/11	02/18/11	1108377	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/18/11	02/18/11	1108377	
Chloride (Cl)	EPA 300.0	**18**	mg/L	1.0	500	02/17/11	02/17/11	1108358	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	02/23/11	02/23/11	1109188	
Specific Conductance (E.C.)	SM 2510B	**360**	umhos/cm	2.0	1600	02/18/11	02/18/11	1108377	
Fluoride (F)	EPA 300.0	**0.42**	mg/L	0.10	2	02/17/11	02/17/11	1108358	
Hardness, Total (as CaCO3)	SM 2340 C	**83**	mg/L	5.0		02/18/11	02/18/11	1108377	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/11	02/18/11	1108377	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	02/18/11	02/18/11	1108380	
Nitrate (NO3)	EPA 300.0	**6.2**	mg/L	2.0	45	02/17/11	02/17/11	1108358	
Nitrate + Nitrite (as N)	EPA 300.0	**1400**	ug/L	400	10000	02/17/11	02/17/11	1108358	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	02/17/11	02/17/11	1108358	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	02/17/11	02/18/11	1108346	
pH (Lab)	SM 4500HB	**7.8**	pH Units			02/18/11	02/18/11	1108377	
Sulfate (SO4)	EPA 300.0	**27**	mg/L	0.50	500	02/17/11	02/17/11	1108358	
Total Filterable Residue/TDS	SM 2540C	**230**	mg/L	5.0	1000	02/21/11	02/22/11	1109018	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	02/23/11	02/23/11	1109195	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	02/24/11	02/25/11	1109291	
Arsenic (As)	SM3113-B	**4.4**	ug/L	2.0	10	02/21/11	02/21/11	1109034	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	02/23/11	02/23/11	1109195	
Beryllium (Be)	SM3113-B	ND	ug/L	1.0	4	02/21/11	02/21/11	1109016	
Boron (B)	EPA 200.7	ND	ug/L	100		02/23/11	02/23/11	1109195	
Cadmium (Cd)	SM3113-B	ND	ug/L	1.0	5	02/22/11	02/22/11	1109058	
Chromium (Total Cr)	SM3113-B	ND	ug/L	10	50	02/18/11	02/18/11	1108389	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	02/23/11	02/23/11	1109195	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	02/23/11	02/23/11	1109195	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		02/23/11	02/23/11	1109199	
Magnesium (Mg)	EPA 200.7	**3.9**	mg/L	1.0		02/18/11	02/18/11	1108383	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	02/23/11	02/23/11	1109195	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	02/24/11	02/24/11	1109115	

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11K0408
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 11/03/11 16:40
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 11/16/11

Well 1 **11K0408-01 (Water)** **Sample Date:** 11/03/11 10:15 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Nitrate (NO3)	EPA 300.0	5.7	mg/L	2.0	45	11/03/11	11/05/11	1146033	

Humaira Saleem

Humaira Saleem

Project Manager

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EDT

ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 11/03/17 Sample ID No.10150953001

Laboratory Signature Lab

Name: PACE ANALYTICAL - MINNEAPOLIS Director:

Name of Sampler:Client Employed By: Client

Date/Time Sample Collected:11/02/28/1115 | Date/Time Sample Received @ Lab:11/03/03/1005 | Date Analyses Completed:11/03/16

System Name:SBDNO COUNTY SERVICE AREA W-1

System Number: 3610060

Name or Number of Sample Source:WELL 01

* User ID: TAN Station Number: 3610060-001 *

* Date/Time of Sample: |11|02|28|1115| Laboratory Code: 2155 *

* YY MM DD TTTT YY MM DD *

* Date Analysis completed: |11|03|16| *

* Submitted by:_____ Phone #:_____ *

Page 1 of 1

REGULATED ORGANIC CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
1613	2,3,7,8-TCDD (Dioxin) Units=picogram/L	34676	ND	30	5.00

Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11C0033
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/28/11 16:35
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/24/11

Well 1 **11C0033-01 (Water)** **Sample Date:** 02/28/11 11:15 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.020	0.05	03/01/11	03/01/11	1110128	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug/L	0.0098	0.2	03/01/11	03/01/11	1110128	
Semi-Volatile Organic Analyses									
Endrin	EPA 508.1	ND	ug/L	0.10	2	03/03/11	03/03/11	1110429	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.2	03/03/11	03/03/11	1110429	
Methoxychlor	EPA 508.1	ND	ug/L	10	30	03/03/11	03/03/11	1110429	
Toxaphene	EPA 508.1	ND	ug/L	1.0	3	03/03/11	03/03/11	1110429	
Chlordane	EPA 508.1	ND	ug/L	0.10	0.1	03/03/11	03/03/11	1110429	
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.01	03/03/11	03/03/11	1110429	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0.01	03/03/11	03/03/11	1110429	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	1	03/03/11	03/03/11	1110429	
Hexachlorocyclopentadiene	EPA 508.1	ND	ug/L	1.0	50	03/03/11	03/03/11	1110429	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50	0.5	03/03/11	03/03/11	1110429	
Surrogate: Dibutylchlorendate	*EPA 508.1*	*90 %*				*03/03/11*	*03/03/11*	*1110429*	
Dalapon	EPA 515.4	ND	ug/L	10	200	03/08/11	03/08/11	1111181	
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	50	03/08/11	03/08/11	1111181	
Bentazon (BASAGRAN)	EPA 515.4	ND	ug/L	2.0	18	03/08/11	03/08/11	1111181	
Picloram	EPA 515.4	ND	ug/L	1.0	500	03/08/11	03/08/11	1111181	
2,4-D	EPA 515.4	ND	ug/L	10	70	03/08/11	03/08/11	1111181	
Pentachlorophenol (PCP)	EPA 515.4	ND	ug/L	0.20	1	03/08/11	03/08/11	1111181	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	7	03/08/11	03/08/11	1111181	
Surrogate: 2,4-Dichlorophenylacetic acid	*EPA 515.4*	*121 %*				*03/08/11*	*03/08/11*	*1111181*	
Alachlor (ALANEX)	EPA 525.2	ND	ug/L	1.0	2	03/02/11	03/03/11	1110369	
Atrazine (AATREX)	EPA 525.2	ND	ug/L	0.50	1	03/02/11	03/03/11	1110369	
Benzo(a)pyrene	EPA 525.2	ND	ug/L	0.10	0.2	03/02/11	03/03/11	1110369	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	4	03/02/11	03/03/11	1110369	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	400	03/02/11	03/03/11	1110369	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	2.0	20	03/02/11	03/03/11	1110369	
Simazine (PRINCEP)	EPA 525.2	ND	ug/L	1.0	4	03/02/11	03/03/11	1110369	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug/L	1.0	70	03/02/11	03/03/11	1110369	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 525.2*	*97 %*				*03/02/11*	*03/03/11*	*1110369*	
Surrogate: Perylene-d12	*EPA 525.2*	*90 %*				*03/02/11*	*03/03/11*	*1110369*	
Surrogate: Triphenylphosphate	*EPA 525.2*	*128 %*				*03/02/11*	*03/03/11*	*1110369*	
Oxamyl (VYDATE)	EPA 531.1	ND	ug/L	20	50	03/05/11	03/05/11	1111047	
Carbofuran (FURADAN)	EPA 531.1	ND	ug/L	5.0	18	03/05/11	03/05/11	1111047	
Glyphosate	EPA 547	ND	ug/L	25	700	03/02/11	03/02/11	1110428	
Endothall	EPA 548.1	ND	ug/L	45	100	03/01/11	03/01/11	1110137	

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11B1309
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/16/11 16:30
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/04/11

Well 1 **11B1309-01 (Water)** **Sample Date:** 02/16/11 10:45 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Nickel (Ni)	SM3113-B	ND	ug/L	10	100	02/21/11	02/21/11	1109021	
Potassium (K)	EPA 200.7	**2.1**	mg/L	1.0		02/18/11	02/18/11	1108383	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	02/23/11	02/23/11	1109178	
Silver (Ag)	SM3113-B	ND	ug/L	10	100	02/24/11	02/28/11	1109288	
Sodium (Na)	EPA 200.7	**40**	mg/L	1.0		02/18/11	02/18/11	1108383	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	02/24/11	02/24/11	1109290	
Vanadium (V)	EPA 200.9	**11**	ug/L	3.0		02/24/11	02/24/11	1109266	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	02/23/11	02/23/11	1109195	
Anion / Cation Balance									
Total Anions	Calculated	**3.65**	meq/L	0.62		02/18/11	02/18/11	[CALC]	
Total Cations	Calculated	**3.56**	meq/L	0.20		02/18/11	02/18/11	[CALC]	

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11B1309
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/16/11 16:30
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/04/11

Well 2 **11B1309-02 (Water)** **Sample Date: 02/16/11 11:05** **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	**20.4**	°C			02/16/11	02/16/11	1108364	
General Physical Analyses									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	02/17/11	02/17/11	1108318	
Odor Threshold	EPA 140.1M	1	TON	1	3	02/17/11	02/17/11	1108318	
Turbidity	EPA 180.1	ND	NTU	0.1	5	02/17/11	02/17/11	1108318	
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**140**	mg/L	5.0		02/18/11	02/18/11	1108377	
Bicarbonate (HCO3)	SM 2320 B	**170**	mg/L	5.0		02/18/11	02/18/11	1108377	
Calcium (Ca)	SM3500CaD	**33**	mg/L	1.0		02/18/11	02/18/11	1108377	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/18/11	02/18/11	1108377	
Chloride (Cl)	EPA 300.0	**19**	mg/L	1.0	500	02/17/11	02/17/11	1108358	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	02/23/11	02/23/11	1109188	
Specific Conductance (E.C.)	SM 2510B	**390**	umhos/cm	2.0	1600	02/18/11	02/18/11	1108377	
Fluoride (F)	EPA 300.0	**0.37**	mg/L	0.10	2	02/17/11	02/17/11	1108358	
Hardness, Total (as CaCO3)	SM 2340 C	**98**	mg/L	5.0		02/18/11	02/18/11	1108377	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/11	02/18/11	1108377	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	02/18/11	02/18/11	1108380	
Nitrate (NO3)	EPA 300.0	**5.9**	mg/L	2.0	45	02/17/11	02/17/11	1108358	
Nitrate + Nitrite (as N)	EPA 300.0	**1300**	ug/L	400	10000	02/17/11	02/17/11	1108358	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	02/17/11	02/17/11	1108358	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	02/17/11	02/18/11	1108346	
pH (Lab)	SM 4500HB	**7.8**	pH Units			02/18/11	02/18/11	1108377	
Sulfate (SO4)	EPA 300.0	**29**	mg/L	0.50	500	02/17/11	02/17/11	1108358	
Total Filterable Residue/TDS	SM 2540C	**260**	mg/L	5.0	1000	02/21/11	02/22/11	1109018	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	02/23/11	02/23/11	1109195	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	02/24/11	02/25/11	1109291	
Arsenic (As)	SM3113-B	**4.1**	ug/L	2.0	10	02/21/11	02/21/11	1109034	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	02/23/11	02/23/11	1109195	
Beryllium (Be)	SM3113-B	ND	ug/L	1.0	4	02/21/11	02/21/11	1109016	
Boron (B)	EPA 200.7	ND	ug/L	100		02/23/11	02/23/11	1109195	
Cadmium (Cd)	SM3113-B	ND	ug/L	1.0	5	02/22/11	02/22/11	1109058	
Chromium (Total Cr)	SM3113-B	ND	ug/L	10	50	02/18/11	02/18/11	1108389	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	02/23/11	02/23/11	1109195	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	02/23/11	02/23/11	1109195	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		02/23/11	02/23/11	1109199	
Magnesium (Mg)	EPA 200.7	**4.5**	mg/L	1.0		02/18/11	02/18/11	1108383	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	02/23/11	02/23/11	1109195	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	02/24/11	02/24/11	1109115	

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11B1309
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/16/11 16:30
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/04/11

Well 2 **11B1309-02 (Water)** **Sample Date:** 02/16/11 11:05 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Nickel (Ni)	SM3113-B	ND	ug/L	10	100	02/21/11	02/21/11	1109021	
Potassium (K)	EPA 200.7	**2.2**	mg/L	1.0		02/18/11	02/18/11	1108383	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	02/23/11	02/23/11	1109178	
Silver (Ag)	SM3113-B	ND	ug/L	10	100	02/24/11	02/28/11	1109288	
Sodium (Na)	EPA 200.7	**43**	mg/L	1.0		02/18/11	02/18/11	1108383	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	02/24/11	02/24/11	1109290	
Vanadium (V)	EPA 200.9	**9.9**	ug/L	3.0		02/24/11	02/24/11	1109266	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	02/23/11	02/23/11	1109195	
Anion / Cation Balance									
Total Anions	Calculated	**4.04**	meq/L	0.62		02/18/11	02/18/11	[CALC]	
Total Cations	Calculated	**3.95**	meq/L	0.20		02/18/11	02/18/11	[CALC]	

ND Analyte NOT DETECTED at or above the reporting limit

Nancy Benart

Nancy Benart

Admin Assistant/Project Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11K0408
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 11/03/11 16:40
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 11/16/11

Well 2 **11K0408-02 (Water)** **Sample Date:** 11/03/11 10:20 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Nitrate (NO3)	EPA 300.0	5.9	mg/L	2.0	45	11/03/11	11/05/11	1146033	

Humaira Saleem

Humaira Saleem

Project Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11C0429
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 03/03/11 18:30
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/18/11

Well 3 — **11C0429-01 (Water)** — **Sample Date:** 03/03/11 11:10 — **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	**21.2**	°C			03/03/11	03/03/11	1111092	
General Physical Analyses									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	03/04/11	03/04/11	1110434	
Odor Threshold	EPA 140.1M	**1**	TON	1	3	03/04/11	03/04/11	1110434	
Turbidity	EPA 180.1	ND	NTU	0.1	5	03/04/11	03/04/11	1110434	
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**150**	mg/L	5.0		03/08/11	03/08/11	1111092	
Bicarbonate (HCO3)	SM 2320 B	**180**	mg/L	5.0		03/08/11	03/08/11	1111092	
Calcium (Ca)	SM3500CaD	**35**	mg/L	1.0		03/08/11	03/08/11	1111092	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/08/11	03/08/11	1111092	
Chloride (Cl)	EPA 300.0	**17**	mg/L	1.0	500	03/04/11	03/04/11	1111015	
Langelier Index at Source Tmp	SM 203	**0.32**				03/03/11	03/03/11	1111092	
Langelier Index at 60 C	SM 203	**0.90**				03/03/11	03/03/11	1111092	
Aggressive Index	SM 203	**12.10**				03/03/11	03/03/11	1111092	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	03/08/11	03/08/11	1111148	
Specific Conductance (E.C.)	SM 2510B	**390**	umhos/cm	2.0	1600	03/08/11	03/08/11	1111092	
Fluoride (F)	EPA 300.0	**0.36**	mg/L	0.10	2	03/04/11	03/04/11	1111015	
Hardness, Total (as CaCO3)	SM 2340 C	**110**	mg/L	5.0		03/08/11	03/08/11	1111092	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/08/11	03/08/11	1111092	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	03/04/11	03/04/11	1110390	
Nitrate (NO3)	EPA 300.0	**5.8**	mg/L	2.0	45	03/04/11	03/04/11	1111015	
Nitrate + Nitrite (as N)	EPA 300.0	**1300**	ug/L	400	10000	03/04/11	03/04/11	1111015	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	03/04/11	03/04/11	1111015	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	03/08/11	03/08/11	1111243	
pH (Lab)	SM 4500HB	**8.0**	pH Units			03/04/11	03/04/11	1111092	
Sulfate (SO4)	EPA 300.0	**28**	mg/L	0.50	500	03/04/11	03/04/11	1111015	
Total Filterable Residue/TDS	SM 2540C	**250**	mg/L	5.0	1000	03/09/11	03/10/11	1111082	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	03/11/11	03/11/11	1111402	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	03/11/11	03/11/11	1111420	
Arsenic (As)	SM3113-B	**4.4**	ug/L	2.0	10	03/09/11	03/09/11	1111244	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	03/11/11	03/11/11	1111402	
Beryllium (Be)	SM3113-B	ND	ug/L	1.0	4	03/16/11	03/16/11	1112236	
Boron (B)	EPA 200.7	ND	ug/L	100		03/11/11	03/11/11	1111402	
Cadmium (Cd)	SM3113-B	ND	ug/L	1.0	5	03/11/11	03/11/11	1111431	
Chromium (Total Cr)	SM3113-B	ND	ug/L	10	50	03/08/11	03/08/11	1111093	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	03/11/11	03/11/11	1111402	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	03/11/11	03/11/11	1111402	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		03/11/11	03/11/11	1111425	

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11C0429
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 03/03/11 18:30
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/18/11

Well 3 **11C0429-01 (Water)** **Sample Date:** 03/03/11 11:10 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Magnesium (Mg)	EPA 200.7	**4.9**	mg/L	1.0		03/15/11	03/15/11	1112051	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	03/11/11	03/11/11	1111402	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	03/16/11	03/16/11	1111392	
Nickel (Ni)	SM3113-B	ND	ug/L	10	100	03/10/11	03/10/11	1111332	
Potassium (K)	EPA 200.7	**2.5**	mg/L	1.0		03/15/11	03/15/11	1112051	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	03/11/11	03/11/11	1111430	
Silver (Ag)	SM3113-B	ND	ug/L	10	100	03/10/11	03/10/11	1111389	
Sodium (Na)	EPA 200.7	**39**	mg/L	1.0		03/15/11	03/15/11	1112051	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	03/11/11	03/11/11	1111407	
Vanadium (V)	EPA 200.9	**9.5**	ug/L	3.0		03/07/11	03/07/11	1111019	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	03/11/11	03/11/11	1111402	
Anion / Cation Balance									
Total Anions	Calculated	**4.13**	meq/L	0.62		03/15/11	03/08/11	[CALC]	
Total Cations	Calculated	**3.91**	meq/L	0.20		03/15/11	03/15/11	[CALC]	

ND Analyte NOT DETECTED at or above the reporting limit

Nancy Benart

Nancy Benart

Admin Assistant/Project Manager

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11H0433
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 08/03/11 16:45
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 08/09/11

Well 3 **11H0433-01 (Water)** **Sample Date:** 08/03/11 11:05 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Nitrate (NO3)	EPA 300.0	5.8	mg/L	2.0	45	08/04/11	08/04/11	1132208	

ND Analyte NOT DETECTED at or above the reporting limit

Humaira Saleem

Humaira Saleem

Project Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

EDT

ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 11/03/17
Laboratory
Name: PACE ANALYTICAL - MINNEAPOLIS
Name of Sampler:Client
Date/Time Sample Collected:11/02/28/1140
Sample ID No.10150952001
Signature Lab Director:
Employed By: Client
Date/Time Sample Received @ Lab:11/03/03/1005
Date Analyses Completed:11/03/16

System Name:SBDNO COUNTY SERVICE AREA W-1
Name or Number of Sample Source:WELL 03
System Number: 3610060

* User ID: TAN
* Date/Time of Sample: |11|02|28|1140|
* YY MM DD TTTT
* Submitted by:_____
Station Number: 3610060-003
Laboratory Code: 2155
YY MM DD
Date Analysis completed: |11|03|16|
Phone #:_____

REGULATED ORGANIC CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
1613	2,3,7,8-TCDD (Dioxin) Units=picogram/L	34676	ND	30	5.00

Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11C0035
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/28/11 16:35
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/22/11

Well 3 **11C0035-01 (Water)** **Sample Date:** 02/28/11 11:40 **Sampler:** Nanta Baqai

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.019	0.05	03/01/11	03/01/11	1110128	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug/L	0.0097	0.2	03/01/11	03/01/11	1110128	
Semi-Volatile Organic Analyses									
Endrin	EPA 508.1	ND	ug/L	0.10	2	03/03/11	03/03/11	1110429	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.2	03/03/11	03/03/11	1110429	
Methoxychlor	EPA 508.1	ND	ug/L	10	30	03/03/11	03/03/11	1110429	
Toxaphene	EPA 508.1	ND	ug/L	1.0	3	03/03/11	03/03/11	1110429	
Chlordane	EPA 508.1	ND	ug/L	0.10	0.1	03/03/11	03/03/11	1110429	
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.01	03/03/11	03/03/11	1110429	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0.01	03/03/11	03/03/11	1110429	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	1	03/03/11	03/03/11	1110429	
Hexachlorocyclopentadiene	EPA 508.1	ND	ug/L	1.0	50	03/03/11	03/03/11	1110429	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50	0.5	03/03/11	03/03/11	1110429	
Surrogate: Dibutylchlorendate	*EPA 508.1*	*92 %*				*03/03/11*	*03/03/11*	*1110429*	
Dalapon	EPA 515.4	ND	ug/L	10	200	03/08/11	03/08/11	1111181	
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	50	03/08/11	03/08/11	1111181	
Bentazon (BASAGRAN)	EPA 515.4	ND	ug/L	2.0	18	03/08/11	03/08/11	1111181	
Picloram	EPA 515.4	ND	ug/L	1.0	500	03/08/11	03/08/11	1111181	
2,4-D	EPA 515.4	ND	ug/L	10	70	03/08/11	03/08/11	1111181	
Pentachlorophenol (PCP)	EPA 515.4	ND	ug/L	0.20	1	03/08/11	03/08/11	1111181	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	7	03/08/11	03/08/11	1111181	
Surrogate: 2,4-Dichlorophenylacetic acid	*EPA 515.4*	*118 %*				*03/08/11*	*03/08/11*	*1111181*	
Alachlor (ALANEX)	EPA 525.2	ND	ug/L	1.0	2	03/09/11	03/09/11	1111146	
Atrazine (AATREX)	EPA 525.2	ND	ug/L	0.50	1	03/09/11	03/09/11	1111146	
Benzo(a)pyrene	EPA 525.2	ND	ug/L	0.10	0.2	03/09/11	03/09/11	1111146	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	4	03/09/11	03/09/11	1111146	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	400	03/09/11	03/09/11	1111146	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	2.0	20	03/09/11	03/09/11	1111146	
Simazine (PRINCEP)	EPA 525.2	ND	ug/L	1.0	4	03/09/11	03/09/11	1111146	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug/L	1.0	70	03/09/11	03/09/11	1111146	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 525.2*	*96 %*				*03/09/11*	*03/09/11*	*1111146*	
Surrogate: Perylene-d12	*EPA 525.2*	*104 %*				*03/09/11*	*03/09/11*	*1111146*	
Surrogate: Triphenylphosphate	*EPA 525.2*	*114 %*				*03/09/11*	*03/09/11*	*1111146*	
Oxamyl (VYDATE)	EPA 531.1	ND	ug/L	20	50	03/05/11	03/05/11	1111047	
Carbofuran (FURADAN)	EPA 531.1	ND	ug/L	5.0	18	03/05/11	03/05/11	1111047	
Glyphosate	EPA 547	ND	ug/L	25	700	03/02/11	03/02/11	1110428	
Endothall	EPA 548.1	ND	ug/L	45	100	03/01/11	03/01/11	1110137	

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Clinical Laboratory of San Bernardino, Inc.

County of San Bernardino - CSA 70 W-1	Project: CSA 70 W-1	Work Order: 11C0035
12402 Industrial Blvd., Bldg. D6 (P.O Box 5004)	Sub Project: CSA 70 W-1	Received: 02/28/11 16:35
Victorville CA, 92393	Project Manager: Steve Samaras	Reported: 03/22/11

Trip Blank **11C0035-02 (Water)** **Sample Date:** 02/28/11 0:00 **Sampler:**

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.020	0.05	03/01/11	03/01/11	1110128	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug/L	0.0098	0.2	03/01/11	03/01/11	1110128	

ND Analyte NOT DETECTED at or above the reporting limit

Nancy Benart

Nancy Benart

Admin Assistant/Project Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Certificate of Analysis

Report Date: Friday, March 11, 2011
Received Date: Wednesday, March 2, 2011
Received Time: 11:30 am
Turnaround Time: Normal

Client: Clinical Laboratory of San Bernardino, Inc.
21881 Barton Road
Grand Terrace, CA 92313

Phones: (909) 825-7693
Fax: (909) 825-7696

Attn: Nancy Benart
Project: 11C0035

P.O. #:

Lab Sample ID: 1C02031-01 **Sample ID:** Well 3 / 11C0035-01 **Matrix:** Water
Sampled by: Client **Sampled:** 02/28/11 11:40

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Diquat	ND	0.90	4.0	ug/l	1x1	EPA 549.2	3/2/11	3/9/11 12:23	W1C0098	

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

WATER QUALITY

GUBLER FARM WELL K01

Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1975
622 S. Jemez Trail	Sub Project: Ames Basin	Received: 11/28/11 16:45
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/08/11

Gublers ~~Goblers~~ K1 Well — 11K1975-01 (Water) — Sample Date: 11/28/11 9:00 — Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	130	mg/L	5.0		11/29/11	11/29/11	1149173	
Bicarbonate (HCO3)	SM 2320 B	160	mg/L	5.0		11/29/11	11/29/11	1149173	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/29/11	11/29/11	1149173	
Chloride (Cl)	EPA 300.0	37	mg/L	1.0	500	11/29/11	11/30/11	1149228	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	12/01/11	12/01/11	1149343	
Specific Conductance (E.C.)	SM 2510B	510	umhos/cm	2.0	1600	11/29/11	11/29/11	1149173	
Fluoride (F)	EPA 300.0	0.81	mg/L	0.10	2	11/29/11	11/30/11	1149228	
Hardness, Total (as CaCO3)	SM 2340 C	140	mg/L	5.0		11/29/11	11/29/11	1149173	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/29/11	11/29/11	1149173	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	11/30/11	11/30/11	1149349	
Nitrate (NO3)	EPA 300.0	6.8	mg/L	2.0	45	11/29/11	11/30/11	1149228	
Nitrate + Nitrite (as N)	EPA 300.0	1500	ug/L	400	10000	11/29/11	11/30/11	1149228	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	11/29/11	11/30/11	1149228	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	11/29/11	11/30/11	1149217	
pH (Lab)	SM 4500HB	8.0	pH Units			11/29/11	11/29/11	1149173	
Sulfate (SO4)	EPA 300.0	59	mg/L	0.50	500	11/29/11	11/30/11	1149228	
Total Filterable Residue/TDS	SM 2540C	300	mg/L	5.0	1000	12/01/11	12/02/11	1149350	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	11/29/11	12/02/11	1149182	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	12/05/11	12/05/11	1150022	
Arsenic (As)	SM3113-B	2.4	ug/L	2.0	10	11/29/11	11/30/11	1149187	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	11/29/11	12/02/11	1149182	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	12/01/11	12/01/11	1149248	
Boron (B)	EPA 200.7	ND	ug/L	100		11/29/11	12/02/11	1149182	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	12/01/11	12/01/11	1149248	
Calcium (Ca)	EPA 200.7	42	mg/L	1.0		12/07/11	12/07/11	1150142	
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	12/01/11	12/01/11	1149248	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	11/29/11	12/02/11	1149182	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	11/29/11	12/02/11	1149182	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		12/02/11	12/02/11	1149403	
Magnesium (Mg)	EPA 200.7	7.4	mg/L	1.0		12/07/11	12/07/11	1150142	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	11/29/11	12/02/11	1149182	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	12/01/11	12/02/11	1149347	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	12/01/11	12/01/11	1149248	
Potassium (K)	EPA 200.7	2.4	mg/L	1.0		12/07/11	12/07/11	1150142	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	12/01/11	12/01/11	1149378	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	12/01/11	12/01/11	1149248	
Sodium (Na)	EPA 200.7	53	mg/L	1.0		12/07/11	12/07/11	1150142	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	12/05/11	12/05/11	1150017	
Vanadium (V)	EPA 200.9	8.0	ug/L	3.0		11/30/11	11/30/11	1149107	

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Clinical Laboratory of San Bernardino, Inc.

Bighorn-Desert View Water	Project: Routine	Work Order: 11K1975
622 S. Jemez Trail	Sub Project: Ames Basin	Received: 11/28/11 16:45
Yucca Valley CA, 92284	Project Manager: Marina West	Reported: 12/08/11

Gublers ~~Coblers~~ K1 Well — 11K1975-01 (Water) — Sample Date: 11/28/11 9:00 — Sampler: Kit Boyd

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	11/29/11	12/02/11	1149182	
Anion / Cation Balance									
Total Anions	Calculated	5.05	meq/L	0.62		12/07/11	11/30/11	[CALC]	
Total Cations	Calculated	5.08	meq/L	0.20		12/07/11	12/07/11	[CALC]	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	3.9	pCi/L	3.0	15	12/02/11	12/06/11	1149400	
Gross Alpha Counting Error	EPA 900.0	1.6	pCi/L			12/02/11	12/06/11	1149400	
Gross Alpha Min Det Activity	EPA 900.0	1.3	pCi/L			12/02/11	12/06/11	1149400	
Uranium	EPA 908.0	2.9	pCi/L	1.0	20	12/01/11	12/02/11	1149119	
Uranium Counting Error	EPA 908.0	0.77	pCi/L			12/01/11	12/02/11	1149119	
Uranium Min Det Activity	EPA 908.0	0.88	pCi/L			12/01/11	12/02/11	1149119	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

APPENDIX C
TABLE

AMES VALLEY WATER BASIN MONITORING PROGRAM
SUMMARY OF AMES BASIN WATER QUALITY DATA
(Fluoride, Total Dissolved Solids, Gross Alpha)

AUGUST 1993 - DECEMBER 2011

APPENDIX C TABLE
AMES VALLEY WATER BASIN MONITORING PROGRAM
SUMMARY OF AMES BASIN WATER QUALITY DATA

Map Point	Bighorn-Desert View Water Agency Local Designations	Location	Status	Water Quality Constituent	Maximum Contaminent Level	Water Quality Data Aug 93	Sep 93	Nov 93	Nov 94	Dec 94	Nov 95	Dec 95	Nov 96	Nov 97	Nov 98	Nov 99	Nov 00	Nov 01	Oct 02	Dec 03	Nov 04	Nov 05	Nov 06	Jun 07[1]	Dec 08	Jul 09	Dec 10	11-Dec	Percent Change[2] (+ or -)
2	GUBLER FARM WELL	02N/05E-01H01	Unknown	FLUORIDE (mg/L)	2	0.70	0.70	0.70		0.70	0.60		0.60	0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0%
				TDS (mg/L)	—	270	255	260		358	305		310	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15%
				ALPHA (pCi/L)	15	2.00	5.00	3.00		NA	3.00		2.00	2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0%
3	GUBLER FARM WELL[3]	02N/05E-01K01	Producing	FLUORIDE (mg/L)	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.67	NA	0.81	---[3]
				TDS (mg/L)	—	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.00	NA	300.00	—
				ALPHA (pCi/L)	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	NA	3.90	---
4	BDVWA #9[4]	02N/05E-12C025	Producing	FLUORIDE (mg/L)	2			1.20	1.00		NA		1.00	NA	NA	NA	NA	NA	NA	NA	NA	1.00	NA	NA	1.10	---	—[4]	—[4]
				TDS (mg/L)	—			265	315		NA		310	NA	NA	NA	NA	NA	NA	NA	NA	270	NA	NA	290	---	—[4]	—[4]
				ALPHA (pCi/L)	15			7.00	6.00		7.75		6.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.50	NA	8.80	---	---[4]	---[4]
5	BDVWA #6[5]	02N/05E-12B01	Producing	FLUORIDE (mg/L)	2			1.10	0.80		NA			0.90	NA	NA	NA	NA	NA	NA	NA	NA	0.79	NA	NA	0.81	---	0.94	—[4]	—[4]
				TDS (mg/L)	—			275	280		NA			280	NA	NA	NA	NA	NA	NA	NA	NA	260	NA	NA	280	—	230	---[4]	—[4]
				ALPHA (pCi/L)	15			5.00	13.00		13.00			4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.30	NA	—	7.80	---[4]	—[4]
6	BDVWA #7[4]	02N/05E-12B02	Producing	FLUORIDE (mg/L)	2		0.90		NA		1.00			NA	NA	NA	NA	NA	NA	NA	NA	0.81	NA	NA	0.91	—	---	1.10	22%
				TDS (mg/L)	----		245		NA		261			NA	NA	NA	NA	NA	NA	NA	NA	260	NA	NA	290	—	---	250	2%
				ALPHA (pCi/L)	15		8.00		NA		11.00			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.15	NA	—	---	6.70	-16%
8	CSA 70 W-1 #1[6]	02N/06E-18D1	Producing	FLUORIDE (mg/L)	2	0.40		0.50		0.40			0.40	NA	NA	NA	NA	NA	NA	NA	NA	0.41	NA	NA	0.43	NA	NA	0.42	5%
				TDS (mg/L)	—	265		225		235			230	NA	NA	NA	NA	NA	NA	NA	NA	210	NA	NA	180	NA	235	230	-13%
				ALPHA (pCi/L)	15	3.00		3.00		NA			4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	—[6]
9	CSA 70 W-1 #2[7]	02N/06E-18D2	Producing	FLUORIDE (mg/L)	2		0.40				0.40			0.50	NA	NA	NA	NA	NA	NA	NA	0.37	NA	NA	0.37	NA	NA	0.37	-8%
				TDS (mg/L)	—		245				264			230	NA	NA	NA	NA	NA	NA	NA	260	NA	NA	200	NA	255	260	6%
				ALPHA (pCi/L)	15		3.00				2.00			2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.00	NA	0%
11	HDWD #24[8]	02N/05E-24I1	Producing	FLUORIDE (mg/L)	2	0.80	0.50	0.50				0.70	0.56	0.70	0.77	0.67	0.62	0.61	0.50	0.60	0.65	NA	NA	NA	0.70	0.60	0.60	0.60	-25%
				TDS (mg/L)	—	220	229	239				245	234	240	245	246	241	250	240	250	450	NA	NA	NA	240	250	260	220	0%
				ALPHA (pCi/L)	15	6.90	9.20	9.20				10.80	10.70	8.60	9.70	12.20	9.30	6.90	6.40	NA	7.60	NA	NA	NA	9.36	11.10	11.60	9.52	38%
12	BDVWA #8[9, 10]	02N/05E-22J01S	Producing	FLUORIDE (mg/L)	2	0.60	0.60	0.70	0.60		0.70		0.60	0.60	NA	NA	NA	NA	NA	NA	NA	0.51	NA	NA	0.56	0.56	0.70	0.67	12%
				TDS (mg/L)	—	280	250	260	290		251		290	280	NA	NA	NA	NA	NA	NA	NA	270	NA	NA	310	280	310	270	-4%
				ALPHA (pCi/L)	15	2.00	1.00	1.00	0.00		5.00		2.00	2.00	NA	NA	NA	NA	NA	NA	NA	0.00	NA	NA	3.60	NA	0.00	3.80	0.00	-100%
15	BDVWA #3[11]	02N/05E-27J01S	Producing	FLUORIDE (mg/L)	2		0.60		NA		0.50			NA	NA	NA	NA	NA	NA	NA	NA	0.52	NA	NA	0.57	—	0.70	0.65	8%
				TDS (mg/L)	—		300		NA		334			NA	NA	NA	NA	NA	NA	NA	NA	350	NA	NA	340	—	350	320	7%
				ALPHA (pCi/L)	15		21.00		NA		14.00			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.00	NA	14.00	21.00	0%
16	BDVWA #2[11]	02N/05E-27J01	Offline	FLUORIDE (mg/L)	2	0.60			0.60		NA			0.60	NA	NA	NA	NA	NA	NA	NA	0.47	NA	NA	0.57	0.55	—[11]	---[11]	—[11]
				TDS (mg/L)	----	305			305		NA			380	NA	NA	NA	NA	NA	NA	NA	320	NA	NA	350	320	—[11]	—[11]	—[11]
				ALPHA (pCi/L)	15	12.00			NA		20.00			10.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.00	NA	16.00	13.00	18.00	50%
17	BDVWA #2[11]	02N/05E-27R	Offline	FLUORIDE (mg/L)	2			0.70	0.60		NA		0.60	NA	NA	NA	NA	NA	NA	NA	NA	0.53	NA	NA	0.56	—	---[12]	—[12]	---[12]
				TDS (mg/L)	—			290	305		NA		330	NA	NA	NA	NA	NA	NA	NA	NA	310	NA	NA	320	---	—[12]	---[12]	—[12]
				ALPHA (pCi/L)	15			19.00	NA		21.30		16.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.00	NA	—	---[12]	—[12]	—[12]
21	HDWD #10[14]	01N/06E-17A	Offline	FLUORIDE (mg/L)	2	0.70	0.40	0.30				0.50	0.40	NA	0.49	0.53	0.50	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-41%
				TDS (mg/L)	----	197	199	198				208	194	NA	200	214	205	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2%
				ALPHA (pCi/L)	15	3.80	4.00	4.50				3.80	4.00	NA	5.00	3.50	2.40	3.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-18%

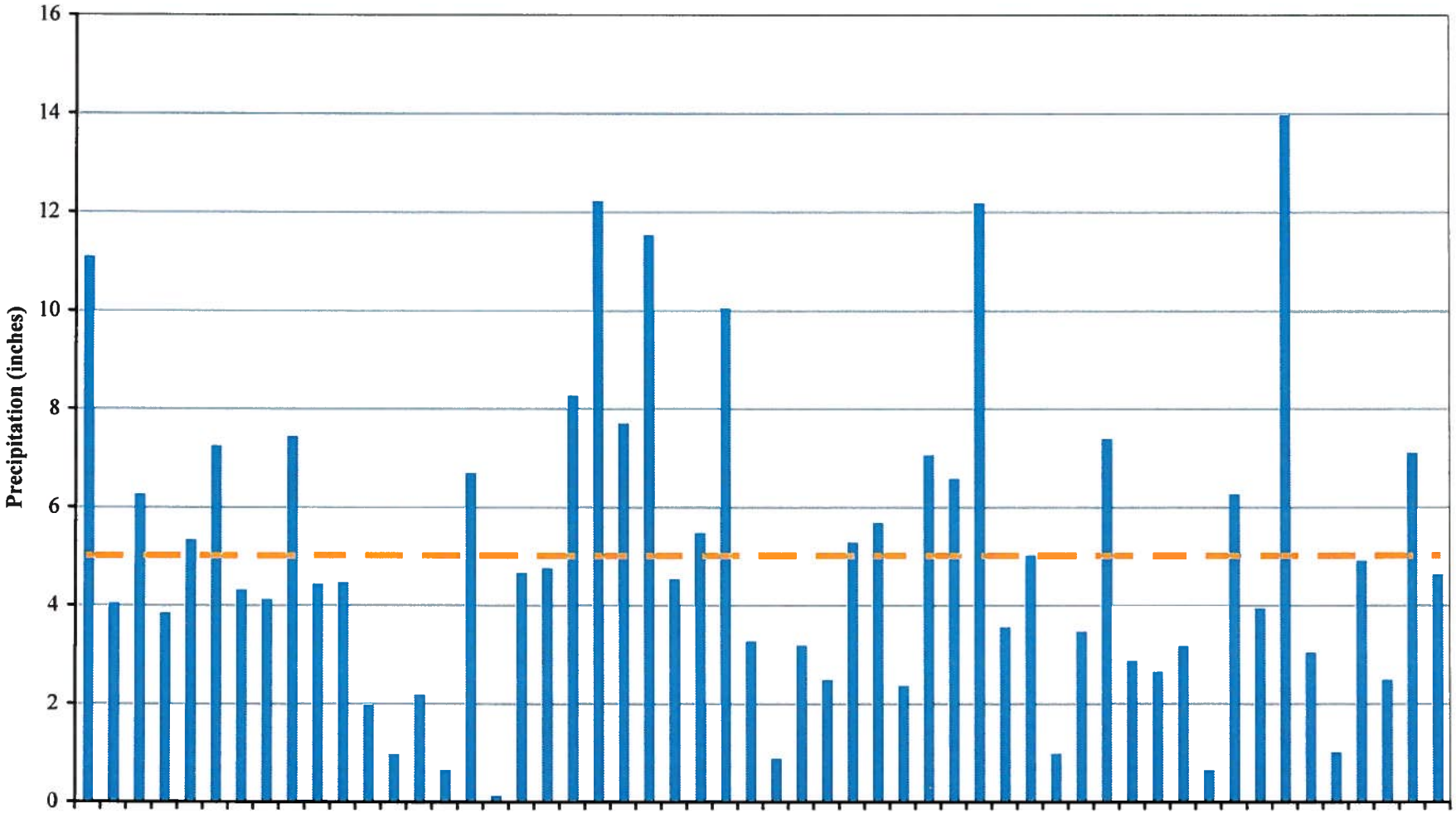
NA = No Data Available
ND = None Detected

Note:
1) 2007 Alpha values are the average of May and June test results for all BDVWA wells except BDVWA No. 8, which was tested only in May.
2) Percent change is based on the first data report available for 1993 and the most recent data available.
3) Data provided during year 2009 were sampled in December. Comparison to historical water quality values is not possible for Well K01 as initial water quality data were not obtained in 1993.
4) Pursuant to Exhibit "C" of the Agreement, groundwater wells within 1,500 feet of each other are considered as a single well field, and water samples shall be rotated between each. Accordingly, BDVWA Wells #6, #7 and #9 are considered as a single well field, and water was sampled from BDVWA Well #7 in 2011.
5) Pursuant to Exhibit "C" of the Agreement, groundwater wells within 1,500 feet of each other are considered as a single well field, and water samples shall be rotated between each. Accordingly, BDVWA Wells #6, #7 and #9 are considered as a single well field, and water was sampled from BDVWA Well #7 in 2011.
6) Gross Alpha was not tested in 2011.
7) Gross Alpha was not tested in 2011.
8) Data provided for HDWD Well #24 during year 2002 were sampled in October except ALPHA (pCi/L) which was sampled in July. Data provided during year 2009 and 2010 were sampled in November.
9) The 450 mg/L value shown for this well in November 2004 differs significantly from the values reported in December 2008, November 2009, December 2010 and December 2011, which are 240 mg/L, 250mg/L, 260 mg/L and 220 mg/L. This is thought to be a lab error.
10) Well testing data from March 2004 for BDVWA #8 became available in 2010.
11) Pursuant to Exhibit "C" of the Agreement, groundwater wells within 1,500 feet of each other are considered as a single well field, and water samples shall be rotated between each. Accordingly, BDVWA Wells #2, #3 and #4 are considered as a single well field. Water from BDVWA Well #3 was tested in 2011. Well #2 was also tested for Alpha in 2011. Well No. 4 is out of service and in "inactive" status.
12) Pursuant to Exhibit "C" of the Agreement, groundwater wells within 1,500 feet of each other are considered as a single well field, and water samples shall be rotated between each. Accordingly, BDVWA Wells #2, #3 and #4 are considered as a single well field. Water from BDVWA Well #3 was tested in 2011. Well #2 was also tested for Alpha in 2011. Well No. 4 is out of service and in "inactive" status.
13) Pursuant to Exhibit "C" of the Agreement, groundwater wells within 1,500 feet of each other are considered as a single well field, and water samples shall be rotated between each. Accordingly, BDVWA Wells #2, #3 and #4 are considered as a single well field. Water from BDVWA Well #3 was tested in 2011. Well #2 was also tested for Alpha in 2011. Well No. 4 is out of service and in "inactive" status.
14) HDWD Well #10 taken offline October 2002.

APPENDIX D
CHART

AMES VALLEY WATER BASIN MONITORING PROGRAM
ANNUAL PRECIPITATION
FOR WATER YEARS 1958 THROUGH 2011
YUCCA VALLEY PRECIPITATION STATION
CA DEPT. OF FORESTY AND FIRE PROTECTION

Appendix D Chart
Annual Precipitation for Water Years 1958-2011
Yucca Valley Precipitation Station, CA Department of Forestry and Fire Protection

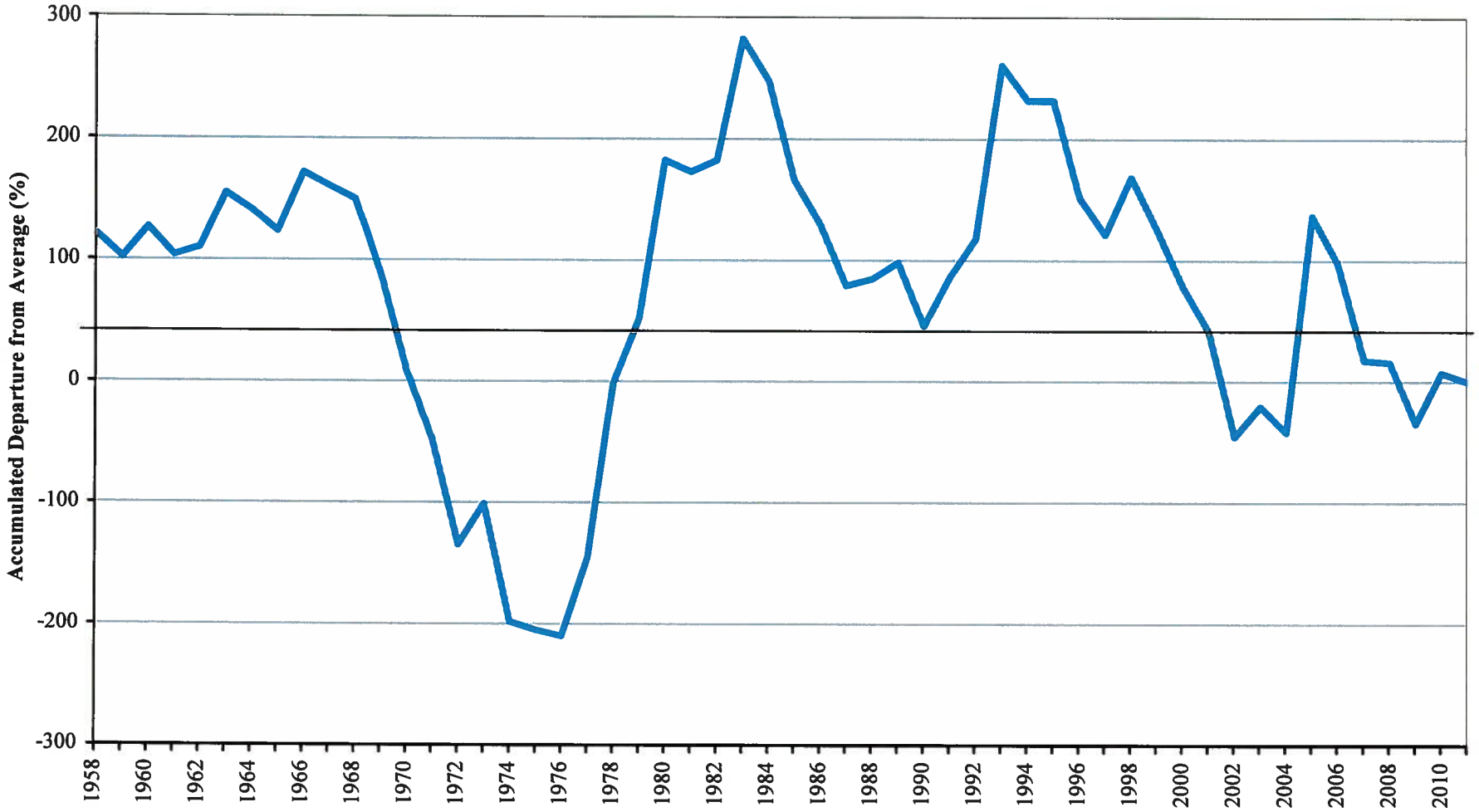


APPENDIX D
GRAPH

AMES VALLEY WATER BASIN MONITORING PROGRAM
ACCUMULATED DEPARTURE FROM AVERAGE ANNUAL PRECIPITATION
FOR WATER YEARS 1958 THROUGH 2011
YUCCA VALLEY PRECIPITATION STATION
CA DEPT. OF FORESTY AND FIRE PROTECTION

Appendix D Figure
Accumulated Departure from Average Precipitation
for Water Years 1958-2011
Yucca Valley Precipitation Station, CA Dept. of Forestry and Fire Protection

Average Annual Precipitation: 5.02 inches



APPENDIX D

AMES VALLEY WATER BASIN MONITORING PROGRAM
ANNUAL PRECIPITATION DATA
FOR WATER YEARS 1958 THROUGH 2011
YUCCA VALLEY PRECIPITATION STATION
CA DEPT. OF FORESTY AND FIRE PROTECTION

APPENDIX D
AMES VALLEY WATER BASIN MONITORING PROGRAM
PRECIPITATION BY WATER YEAR
YUCCA VALLEY PRECIPITATION STATION, CA DEPT OF FORESTRY AND FIRE PROTECTION

Water Year	Precipiation (in)	Percent Departure from Average	Accumulated Percent Departure from Average
1957-1958	11.11	121.27	121.27
1958-1959	4.06	-19.14	102.12
1959-1960	6.27	24.87	127.00
1960-1961	3.86	-23.12	103.87
1961-1962	5.35	6.55	110.42
1962-1963	7.26	44.59	155.01
1963-1964	4.33	-13.76	141.25
1964-1965	4.14	-17.55	123.70
1965-1966	7.45	48.37	172.07
1966-1967	4.45	-11.37	160.70
1967-1968	4.48	-10.78	149.92
1968-1969	1.98	-60.57	89.36
1969-1970	0.98	-80.48	8.87
1970-1971	2.19	-56.38	-47.51
1971-1972	0.66	-86.86	-134.37
1972-1973	6.71	33.64	-100.73
1973-1974	0.14	-97.21	-197.94
1974-1975	4.68	-6.79	-204.74
1975-1976	4.77	-5.00	-209.74
1976-1977	8.28	64.90	-144.83
1977-1978	12.23	143.57	-1.26
1978-1979	7.72	53.75	52.49
1979-1980	11.54	129.83	182.32
1980-1981	4.55	-9.38	172.94
1981-1982	5.49	9.34	182.27
1982-1983	10.06	100.35	282.63
1983-1984	3.28	-34.68	247.95
1984-1985	0.9	-82.08	165.88
1985-1986	3.2	-36.27	129.61
1986-1987	2.5	-50.21	79.40
1987-1988	5.3	5.55	84.95
1988-1989	5.7	13.52	98.47
1989-1990	2.38	-52.60	45.87
1990-1991	7.07	40.81	86.68
1991-1992	6.59	31.25	117.92
1992-1993	12.19	142.77	260.70
1993-1994	3.57	-28.90	231.80

APPENDIX D
AMES VALLEY WATER BASIN MONITORING PROGRAM
PRECIPITATION BY WATER YEAR
YUCCA VALLEY PRECIPITATION STATION, CA DEPT OF FORESTRY AND FIRE PROTECTION

Water Year	Precipiation (in)	Percent Departure from Average	Accumulated Percent Departure from Average
1994-1995	5.03	0.18	231.98
1995-1996	1	-80.08	151.89
1996-1997	3.48	-30.69	121.20
1997-1998	7.4	47.38	168.58
1998-1999	2.87	-42.84	125.74
1999-2000	2.65	-47.22	78.51
2000-2001	3.17	-36.87	41.65
2001-2002	0.66	-86.86	-45.21
2002-2003	6.27	24.87	-20.34
2003-2004	3.95	-21.33	-41.67
2004-2005	13.98	178.42	136.76
2005-2006	3.05	-39.26	97.50
2006-2007	1.02	-79.69	17.81
2007-2008	4.93	-1.81	16.00
2008-2009	2.5	-50.21	-34.21
2009-2010	7.12	41.80	7.59
2010-2011	4.64	-7.59	0.00
Average	**5.02**		

Precipitation Raw Data obtained at:
http://www.sbcounty.gov/trnsprtn/pwg/Precip_Data/Zone_6_Precip_Data/9002.zip

APPENDIX E

AMES VALLEY WATER BASIN MONITORING PROGRAM
AMES VALLEY WATER BASIN AGREEMENT and AMENDMENTS

AMES VALLEY WATER BASIN WATER

AGREEMENT

JANUARY 10, 1991

AMES VALLEY WATER BASIN AGREEMENT

THIS AGREEMENT is entered into as of the 10th day of January, 1991 by and between the HI-DESERT WATER DISTRICT, a County Water District (hereinafter "HDWD") and the BIGHORN-DESERT VIEW WATER AGENCY, a public agency, (hereinafter "BDVWA").

RECITALS

A. HDWD is a County Water District organized and operating pursuant to Section 30000 et seq., of the California Water Code.

B. BDVWA is a public agency formed by an special act of the legislature and operating under the Water Code Appendix Section 112-1, et seq.

C. HDWD has entered into a contract for water to be extracted from a well located in Section 24, Township 2 North, Range 5 East, SBBM in San Bernardino County, California (also referred to as the "Mainstream Well") and has adopted an Environmental Impact Report (EIR) for the construction of facilities to take water from that well.

D. BDVWA has protested that EIR, and filed suit in the Superior Court of San Bernardino County (Bighorn Mountain Water Agency, et al. v. Hi-Desert Water District, Case No. BCV 5157).

E. The parties desire to enter into this AGREEMENT for the purpose of settling the litigation, and providing information on, and dealing with the environmental impacts from water extractions from the Ames Valley Water Basin in San Bernardino County. This AGREEMENT shall never be treated or otherwise construed as an admission of liability and/or inadequacy of the EIR by either party for any purpose.

COVENANTS

NOW THEREFORE, in consideration of the preceding RECITALS and the mutual COVENANTS contained herein, the parties agree as follows:

Section 1.0 STIPULATED JUDGMENT AS AMENDMENT OF "EIR". The parties will enter into a Stipulation for Judgment embodying the terms and conditions of this AGREEMENT, and such stipulated judgment shall be deemed to be an amendment of the EIR.

Section 2.0 LIMITATION ON THE USE OF WATER. HDWD agrees that water pumped from the Section 24 Well and any additional wells owned, operated or controlled by HDWD within the Ames Valley Water Basin will be limited to eight hundred (800) acre feet per year, and that the water delivered from wells within the Ames Valley Water Basin will be used only within the Ames Valley Water Basin. The amount of water pumped in the Ames Valley Water Basin may be increased depending on the water needs of property owners within the Ames Valley Water Basin by an amount equal to one half acre feet per year for each new residential water meter installation by HDWD following approval of this AGREEMENT by the parties. The Ames Valley Water Basin is identified for the purposes of this AGREEMENT in Exhibit "A", which is attached hereto and incorporated herein by reference.

Section 2.1 MODIFICATION TO THE WELL. HDWD agrees at its expense to place a "sleeve", or other device, in the Section 24 Well to seal the upper aquifer and to prevent pumping of water from that zone. The HDWD engineer, in consultation with the BDVWA engineer, shall evaluate water quality individually in both the upper and lower aquifer and shall test for possible flow between the upper and lower aquifers. If there is agreement between engineers that a "sleeve", or other device, is not required prior to production, BDVWA agrees that the "sleeve", or other device, will be installed at a future date, if so required at that time.

Section 3.0 MONITORING PROGRAM. The parties hereto agree to establish and implement a groundwater monitoring program to mitigate any potential environmental damage to the hydrologic resources of the Ames Valley Water Basin caused by the Section 24 Well, or from additional production wells. Monitoring of the wells included in the program, as listed in Exhibit "B", which is attached hereto and incorporated herein by reference, will commence immediately following execution of this AGREEMENT. Any new production wells shall be added automatically to Exhibit "B" for inclusion in the monitoring program, and if production shall be terminated as to any production well included in Exhibit "B", it shall be dropped from the program.

Section 3.1 MONITORING TEAM. The recording of well data, sampling and the taking of well measurements shall be accomplished by a team consisting of one representative each from HDWD and BDVWA. Working together, one team member shall sample, sound and take readings and record them on a form approved by both parties. The other team member shall confirm all recorded data and both team members shall initial and date the form and distribute copies to the respective parties. Team members shall be instructed in correct data collection, sampling and sounding techniques.

Section 3.2 PREPARATION OF WELLS. All wells in the program shall be identified by State Well Number, where possible. All wells shall have a designated reference point (top of casing or measuring tube, etc.) and the elevation of the reference point of selected wells shall be determined by a surveyor prior to production. Each well to be monitored for production shall be equipped with a totalizing flowmeter reading in gallons per minute for pumping rate and in gallons per minute, or cubic feet, for total quantity pumped.

Section 3.3 WELL MEASUREMENT AND SAMPLING. All well sounding measurements shall be taken with a sounding device approved by both parties. The sounding device shall be calibrated at the start of the program and recalibrated at least every six (6) months thereafter. Each production well shall be off, if possible, at least two (2) hours prior to sounding for a static level. The recovery time should be consistent for all readings taken at a given well. Well measurements shall be taken on the same time of the day and date of the month, insofar as possible. Any deviation from the regular monitoring schedule shall be so noted on the recording form. Water quality samples shall be taken from production wells and the method of sampling shall be consistent for all wells sampled. All laboratory testing shall be accomplished by the same firm, if possible. Samples shall be tested according to the latest requirements of Title 22 of the California Domestic Water Quality and Monitoring Regulations and other applicable regulations. The frequency of monitoring shall be accordance with Exhibit "C", which is attached hereto and incorporated herein by reference. HDWD and BDVWA shall provide to each party copies of all available historical well data, including static and pumping water levels, pumping quantities and water quality reports and each party shall maintain identical data bases in a mutually agreed format.

Section 3.4 DATA EVALUATION. HDWD and BDVWA shall be responsible for the submission to, and evaluation of, monitoring data by their respective consultants. Within thirty (30) days following the end of each six (6) month period, each respective consultant shall evaluate the collected data and make a written report on the progress of the monitoring program, including recommendations, if any. Copies of these, and other applicable reports shall be distributed to the other parties to this AGREEMENT.

Section 4.0 ENVIRONMENTAL ACTION CRITERIA. Criteria which shall initiate immediate environmental review are identified in Exhibit "D", which is attached hereto and incorporated herein by reference. Any water level or water quality decline exceeding the criteria shall be cause for a written request for a reduction or cessation of the pumping of the Section 24 Well. Such request shall be delivered to the HDWD office and shall be documented with supporting data.

Section 5.0 CORRECTIVE ACTION. HDWD shall reduce pumping in the Section 24 Well to an amount not to exceed one (1) acre foot per twenty-four (24) hour period within forty-eight (48) hours of receiving a written request from BDVWA. HDWD shall maintain the reduced pumping level until the general managers of HDWD and BDVWA, and their designated consultants, have reviewed collected data, met in conference to make recommendations, and have reached agreement regarding the future operations of the well. If HDWD and BDVWA are unable to agree on a course of action within thirty (30) days from the date of the original request, reduced production in pumping shall continue and the matter shall be submitted for arbitration by an independent consultant, as provided in Section 5.3 herein.

Section 5.1 PRODUCTION REMEDY. BDVWA shall, if so requested in writing by HDWD, replace water production lost from the Section 24 Well during the period of reduced pumping, not to exceed six (6) months, at a price per acre foot comparable to that currently paid by HDWD for the lost production.

Section 5.2 DESIGNATION OF CONSULTANTS. Each party hereto, shall designate the consultant to be retained to evaluate the data from the monitoring program. Such consultant shall remain the primary consultant of the party during the term of this agreement unless notification of a change is provided in writing.

Section 5.3 ARBITRATION OF ENVIRONMENTAL ACTIONS. Respective to Section 5.0 herein, HDWD and BDVWA consultants shall recommend an independent arbitrator who shall be capable of making proper evaluation of the data, and he shall provide recommendations on corrective action, if any. The parties agree that this arbitrator will be retained to examine the data and reports of the consultants and make a binding determination on the impacts of the data and impose the most effective corrective action, if any. If the respective consultants of HDWD and BDVWA are unable to agree on a designated arbitrator within a forty-five (45) day period from the date of the original request, an arbitrator shall be appointed in accordance with the California Arbitration Act, Section 1280 through 1294.2 of the Code of Civil Procedure. At any time following implementation of the arbitrator's decision, either party may request a conference as between the general managers of HDWD and BDVWA and their respective designated consultants, to reach agreement on a proposed modification or elimination of the corrective action imposed by the arbitrator. If the general managers and the designated consultants are unable to arrive at a mutually acceptable solution, the parties shall again proceed in accordance with this Section 5.3.

Section 6.0 PROGRAM COSTS. Program costs, other than in-house manpower, designated consultants and the support thereof, incurred by the parties relating to the program (survey, sampling, laboratory, arbitration, etc.) shall be shared equally by the parties.

Section 7.0 PROGRAM PERIOD. The program shall be ongoing and may be expanded or terminated by the unanimous consent of all parties.

Section 8.0 INDEMNIFICATION. Each party agrees to indemnify, hold harmless, and assume the defense of the other party, its officers, agents, employees, and elective Boards, and pay all court costs and reasonable attorneys fees relating thereto, in any action, with respect to a claim, loss, damage or injury, asserted by a third party against the party entitled to indemnification hereunder, and arising out of a negligent act, error or omission, or wilful misconduct, of an employee or agent of the party whose actions under this AGREEMENT gave rise to such third party claim.

Section 9.0 NOTICES. Any notice, tender or delivery to be given hereunder by either party to the other shall be effected by personal delivery in writing or by registered or certified mail, postage prepaid, return receipt requested, and shall be deemed communicated as of mailing or in the case of personal delivery, as of actual receipt. Mailed notices shall be addressed as set forth below, but each party may change its address by written notice in accordance with this Section.

TO: HI-DESERT WATER DISTRICT
6955 Old Woman Springs Road
Yucca Valley, CA 92284
Attention: General Manager

TO: BIGHORN-DESERT VIEW WATER AGENCY
P. O. Box 3838
1720 North Cherokee Trail
Landers, CA 92285
Attention: General Manager

Section 10.0 ARBITRATION OF DISPUTES. Other than those disputes which shall be arbitrated under Section 5.3, any dispute or controversy arising out of, under, or in connection with, or in relation to the AGREEMENT, and any amendments thereof, or the breach thereof, shall be submitted to arbitration in accordance with the following procedures:

A party desiring arbitration ("First Party") shall give written notice to the other party ("Second Party") containing a general description of the controversy to be submitted to arbitration and designating by name and address, three proposed arbitrators acceptable to the First Party, each of whom have agreed to act as arbitrator, if selected. If the Second Party agrees upon one of the three proposed arbitrators. The Second Party shall so advise the First Party in writing within ten (10) business days of such written notice by the First Party.

The arbitrator selected shall promptly give written notice of the arbitration hearing which shall take place within sixty (60) days of the date as is selected by the arbitrator. The arbitration hearing shall take place at a location mutually agreeable to the parties, but within San Bernardino County, California.

If the Second Party fails to agree to the selection of one of the three proposed arbitrators within the ten (10) business day period, an arbitrator shall be appointed in accordance with the California Arbitration Act, Section 1280 through 1294.2 of the Code of Civil Procedure.

The cost of the arbitration shall be paid by the parties equally. Except as otherwise provided herein, the arbitration shall be conducted and enforced in accordance with the provisions of the California Arbitration Act, Section 1280 through 1294.2 of the Code of Civil Procedure.

Section 11.0 ATTORNEYS FEES. If a dispute arises, which cannot be resolved by arbitration, regarding breach or enforcement of the provisions of this AGREEMENT, the responding and/or defending party who is determined to be the prevailing party therein shall be entitled to recover all attorneys fees or other costs actually incurred in connection with resolving the dispute only if litigation is filed and judgment is rendered. In any action brought, the entitlement to recover attorneys fees and costs will be considered an element of costs and not of damages

Section 12.0 AMENDMENTS. This is an entire AGREEMENT and supercedes all prior agreements oral or written between the parties, and their agents, and cannot be amended unless in writing, with specific reference hereto by the parties authorized to be charged. Failure by either party to enforce any provisions shall not constitute a waiver of said party's right to enforce subsequent violation of the same or any other provisions.

Section 13.0 INUREMENT. This AGREEMENT shall be binding upon and inure to the benefit of the successors and assigns of the parties.

Section 14.0 CAPTIONS. The captions of Sections and Subsections of this AGREEMENT are for reference only and are not to be construed in any way as a part of this AGREEMENT.

Section 15.0 VALIDITY. This AGREEMENT will be construed in accordance with the laws of the State of California.

Section 16.0 SEVERABILITY. If any section, clause or phrase of this AGREEMENT is for any reason held to be unconstitutional or unlawful, such a decision shall not effect the validity of the remaining portions of this AGREEMENT.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed by their respective officers as of this date first above written.

HI-DESERT WATER DISTRICT

BY _____
Board President

ATTEST _____
Board Secretary

BIGHORN-DESERT VIEW WATER AGENCY

BY _____
Board President

ATTEST _____
Board Secretary

AMES VALLEY WATER BASIN MONITORING PROGRAM
EXHIBIT "A"
LEGAL BOUNDARIES OF THE AMES VALLEY WATER BASIN
(MAP ATTACHED)

The boundaries of the Ames Valley Water Basin, for the purposes of this monitoring program, shall be as follows: Township 1 North, Range 5 East, Sections 1, 2, 3, 10, 11, 12, 13, 14, 15, 22, 23, and 24; Township 1 North, Range 6 East, Sections 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20, and 21; Township 2 North, Range 5 East, Sections 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 33, 34, 35, and 36; Township 2 North, Range 6 East, Sections 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 32, 33, and 34; all located within San Bernardino County.

AMES VALLEY WATER BASIN MONITORING PROGRAM
EXHIBIT "B"
LIST OF MONITORING WELLS

OWNER	LOCATION	STATUS
Archie King	2N/5E/26B,SBM	Dormant
DV #1 (BDVWA)	2N/5E/23M,SBM	Dormant
Joan Hayes	2N/5E/23D,SBM	Dormant
DV #2 (BDVWA)	2N/5E/27J1,SBM	Producing
DV #3 (BDVWA)	2N/5E/27J01S,SBM	Producing
DV #4 (BDVWA)	2N/5E/27R,SBM	Producing
USGS Test Well	2N/5E/27A,SBM	Dormant
Moran	2N/5E/13A,SBM	Dormant
BH #2 (BDVWA)	2N/5E/12B1,SBM	Producing
BH #3 (BDVWA)	2N/5E/12B2,SBM	Producing
Gubler Farm	2N/5E/1K1,SBM	Producing
Gubler Farm	2N/5E/1K2,SBM	Dormant
Gubler Farm	2N/5E/1G1,SBM	Dormant
Gubler Farm	2N/5E/1H1,SBM	Producing
BH #1 (BDVWA)	2N/6E/18P,SBM	Dormant
W-1 #3 (COUNTY)	2N/5E/18,SBM	Producing
W-1 #2 (COUNTY)	2N/6E/18,SBM	Producing
W-1 #1 (COUNTY)	2N/6E/7,SBM	Dormant
HD #6 (HDWD)	2N/6E/30,SBM	Dormant
HD #10 (HDWD)	1N/6E/17,SBM	Producing
MAINSTREAM (HDWD)	2N/5E/24,SBM	Producing
HD #20 (HDWD)	2N/6E/36,SBM	Producing
HD #21 (HDWD)	2N/5E/2,SBM	Dormant
Patty Karawczyk	2N/5E/25,SBM	Producing

AMES VALLEY WATER BASIN MONITORING PROGRAM
EXHIBIT "C"
WELL MONITORING FREQUENCY

TIME INTERVAL	GROUNDWATER LEVELS	GROUNDWATER QUALITY	GROUNDWATER PRODUCTION
0 to 15	Every 5 Days	1st Day Only	Daily
16 to 30	Every 7 Days	Day 30	Daily
31 to 90	Every 14 Days	Day 90	Daily
Over 91	Monthly	Annually	Daily

NOTES:

1. Time interval is in number of days from the start of production from the Mainstream Well.

2. Static groundwater levels apply to all monitoring wells. Pumping levels on production wells should be noted at least once monthly, where possible.

3. Groundwater quality is applicable to production wells only. Production wells located in pairs shall be considered a single wellfield and water samples shall be rotated between each.

AMES VALLEY WATER BASIN MONITORING PROGRAM
EXHIBIT "D"
CRITERIA FOR IMPLEMENTING ENVIRONMENTAL REVIEW

Cumulative Water Level Decline in Feet over Time Period:

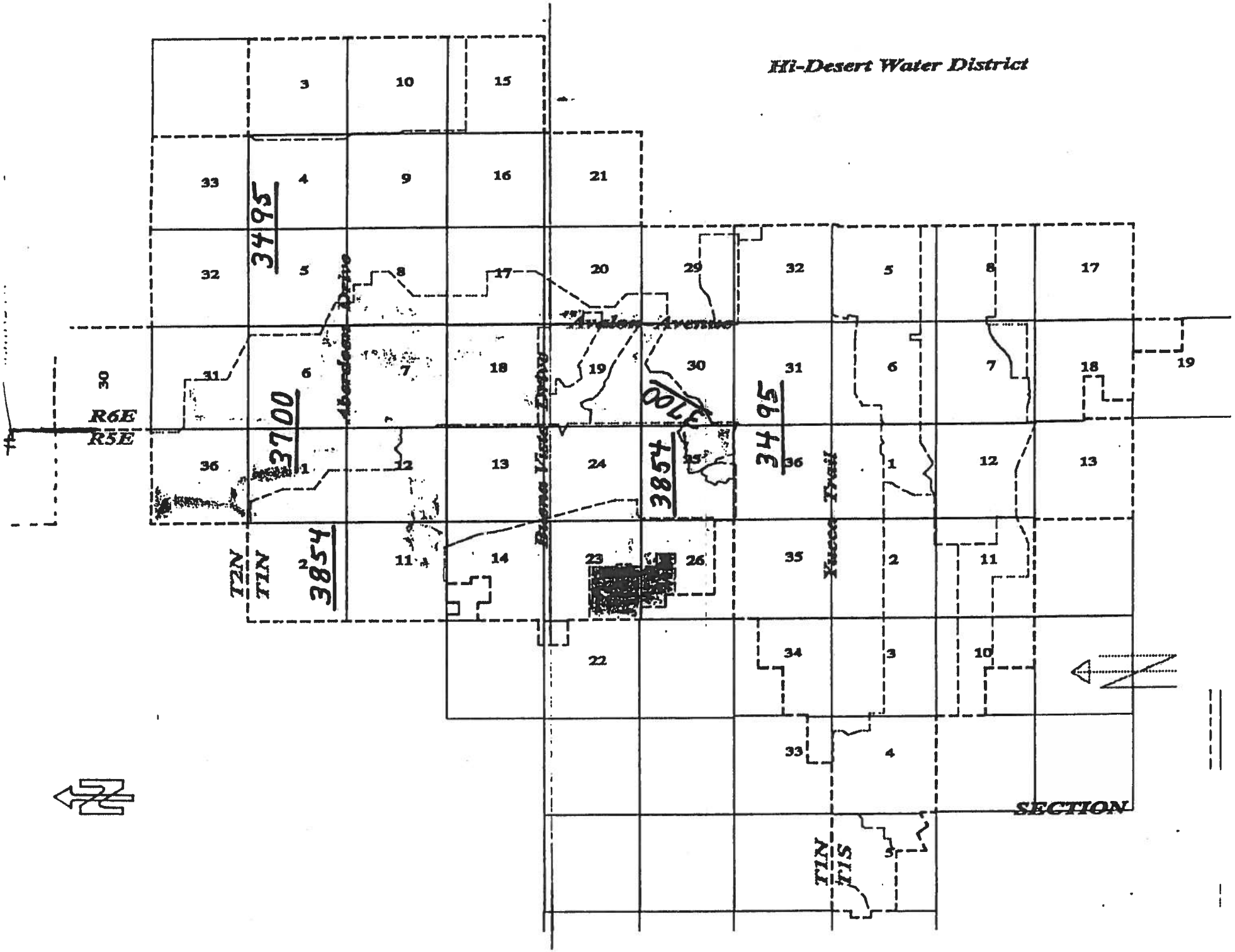
	2 Mo.	3 Mo.	6 Mo.	9 Mo.	+12 Mo.
Production Wells	7	8	9	10	11
Other Wells	2	3	3	3	4

Cumulative Water Quality Decline in Percent over Time Period:

	2 Mo.	3 Mo.	6 Mo.	9 Mo.	+12 Mo.
Fluoride Increase	30	30	30	30	30
TDS Increase	20	20	20	20	20
Alpha Increase	50	50	50	50	50
Other Components	50	50	50	50	50

NOTES:

1. All criteria measured relative to values in individual monitoring wells measured prior to the start of production in the Mainstream Well. These values will constitute the baseline values for water levels and water quality. The initial measurements shall be reviewed by the parties for consistency with historical measurements.


Hi-Desert Water District
3495
3700
3854
3700
3854
3495
Aberdeen Drive
Avalon Avenue
Buena Vista Drive
Yucca Trail
R6E
R5E
T2N
T1N
T1N
T1S
SECTION

AMES VALLEY WATER BASIN WATER

AGREEMENT

AMMENDMENT #1

AUGUST 12, 1993

AMENDMENT NUMBER ONE TO THE AMES VALLEY WATER BASIN AGREEMENT DATED JANUARY 10, 1991

WHEREAS, on January 10, 1991 the Hi-Desert Water District (HDWD) and the Bighorn-Desert View Water Agency (BDVWA) entered into an agreement entitled the Ames Valley Water Basin Agreement (Agreement); and,

WHEREAS, Section 12.0 of said Agreement specifically provides for amendment of said Agreement; and,

WHEREAS, both parties to said Agreement now desire to amend Section 3.1, Section 3.4, Section 5.2, Section 5.3, Section 9.0, Exhibit B and Exhibit C of said Agreement.

NOW, THEREFORE, in consideration of the mutual consent by both parties, said Agreement shall be amended as follows:

1. Section 3.1 is amended to read as follows in its entirety. Section 3.1 MONITORING TEAM. The recording of well measurements shall be accomplished by a team consisting of one representative each from HDWD and BDVWA. Working together the team shall sound and record the data on a form approved by both parties. The team members shall confirm all recorded data, initial and date the form, and distribute copies to the respective parties. Team members shall be instructed in the correct sounding and data recordation techniques. All other data collection shall be done respectively by in-house employees and the data exchanged monthly or as soon as collected, which ever is agreed upon by both parties.

2. Section 3.4 is amended to read as follows in its entirety. Section 3.4 DATA EVALUATION. At the end of each six month period HDWD and BDVWA shall submit to a qualified independent consultant, which has been agreed upon and selected by both parties, the data collected in the monitoring program for evaluation. Within thirty days the consultant shall evaluate the data and provide a written report to both parties on the progress of the monitoring program, including any recommendations.

3. Section 5.2 is amended to read as follows in its entirety. Section 5.2 DESIGNATION OF CONSULTANT. Both parties shall agree upon and designate a qualified independent consultant to be retained, and jointly paid for by HDWD and BDVWA, to evaluate the data collected from the monitoring program. Said consultant shall remain the primary consultant throughout the term of this Agreement unless both parties agree to change the consultant in writing. The parties understand and agree that the retention of such consultant shall not have a conflict of interest with either party. Nothing in this section shall preclude either party from retaining their own consultant at their own cost to review all data collected from the monitoring program. If both parties do not agree upon and designate a single qualified consultant to review all data collected in the monitoring program, the parties hereto shall retain their own independent consultant at their own expense to review the data collected.

4. Section 5.3 is amended to read as follows in its entirety. Section 5.3 ARBITRATION OF ENVIRONMENTAL ACTION. In reference to Section 5.0 herein, the independent consultant shall recommend an independent arbitrator, acceptable to BDVWA and HDWD, capable of making a proper evaluation of the monitoring data, and the independent arbitrator shall make recommendations on the corrective action, if any. Both parties agree that the independent arbitrator shall be retained to examine all the data and reports and make a binding determination based on the impact to the Ames Valley Water Basin and impose the most effective corrective action, if any. If HDWD and BDVWA are not able to agree on an independent arbitrator within forty-five days of the original request date for arbitration, an arbitrator shall be appointed in accordance with the California Arbitration Act, Section 1280 through 1294.2 of the Code of Civil Procedure. At any time following the implementation of the arbitrators decision, either party may request a conference between both parties in an effort to reach agreement on a proposed modification or elimination of the corrective action imposed by the arbitrator. Any modification or elimination of said corrective action must be agreed to by both parties in writing. If both parties can not agree upon a mutually acceptable solution, the arbitrators decision shall remain in effect.

5. Section 9.0 is amended to read as follows in its entirety.

Section 9.0 NOTICES. Any notice, tender or delivery to be given hereunder by either party to the other shall be effected by personal delivery in writing or by registered or certified mail, postage prepaid, return receipt requested, and shall be deemed communicated as of mailing or in the case of personal delivery, as of actual receipt. Mailed notices shall be addressed as set forth below, but each party may change its address by written notice in accordance with this section.

To: HI-DESERT WATER DISTRICT
6955 Old Woman Springs Road
Yucca Valley, CA 92284
Attn: General Manager

To: BIG-HORN DESERT VIEW WATER AGENCY
Post Office Box 3838
Landers, CA 92285
Attn: General Manager

6. Exhibit B is amended to read as follows in its entirety.

AMES VALLEY WATER BASIN MONITORING PROGRAM

EXHIBIT B

LIST OF WELLS TO BE MONITORED

1	Gubler Farm	2N/5E/1G1 SBM	Mon.
2	Gubler Farm	2N/5E/1H1 SBM	Pro.
3	Gubler Farm	2N/5E/1K1 SBM	Pro.
4	BDVWA #9	2N/5E/12C025 SBM	Pro. *
5	BDVWA #6	2N/5E/12B1 SBM	Pro.
6	BDVWA # 7	2N/5E/12B2 SBM	Pro.
7	Moran	2N/5E/13A SBM	Mon.
8	CSA70W-1 #1	2N/6E/18 SBM	Pro.
9	CSA70W-1 #2	2N/6E/18 SBM	Pro.
10	Hayes	2N/5E/23D SBM	Mon.
11	HDWD #MS	2N/5E/24 SBM	Pro. **
12	BDVWA #8	2N/5E/22J01S SBM	Pro. *
13	BDVWA #1	2N/5E/23M SBM	Mon.
14	USGS	2N/5E/27A SBM	Mon.
15	BDVWA #3	2N/5E/27J10S SBM	Pro.
16	BDVWA #2	2N/5W/27J1 SBM	Pro.
17	BDVWA #4	2N/5E/27R SBM	Pro.
18	HDWD HD#6	2N/6E/30 SBM	Mon.
19	HDWD HD #20	2N/5E/36 SBM	Mon.
20	HDWD HD #21	1N/5E/2 SBM	Mon.
21	HDWD HD#10	1N/6E/17 SBM	Pro.

* Newly added production wells.

** Monitoring begins when production begins.

7. Exhibit C is amended to read as follows in its entirety.

AMES VALLEY WATER BASIN MONITORING PROGRAM

EXHIBIT C

WELL MONITORING FREQUENCY

Time Interval	Groundwater Levels	Groundwater Quality	Groundwater Production
0-15	Every 5 days	1st day	Daily
16-30	Every 7 days	Day 30	Daily
31-90	Every 14 day	Day 90	Daily
Over 91	Monthly	Annually	Daily

NOTES:

1. Time interval is in number of days from the start of production from the Mainstream well.

2. Static groundwater levels apply to all wells being monitored. Pumping levels on production wells should be noted at least once monthly, where possible.

3. Groundwater quality monitoring is applicable to production wells only. Production wells located within 1,500 feet of each other shall be considered a single wellfield and water quality samples shall be rotated between each well annually.

IN WITNESS WHEREOF, the parties hereto have executed this amendment to said Agreement pursuant to authorization from their respective Boards of Directors.

HI-DESERT WATER DISTRICT

By: _____ Date: July 21, 1993
President of the Board

By: _____ Date: July 21, 1993
Secretary of the Board

BIGHORN-DESERT VIEW WATER AGENCY

By: _____ Date: August 12, 1993
President of the Board

By: _____ Date: Aug 12 1993
Secretary of the Board

AMES VALLEY WATER BASIN WATER

AGREEMENT

AMMENDMENT #2

FEBRUARY 6, 1997

PROPOSED AMENDMENT NO. 2 TO THE
AMES VALLEY WATER BASIN AGREEMENT
DATED JANUARY 10, 1991

WHEREAS, on January 10, 1991, the Hi-Desert Water District (HDWD) and the Bighorn-Desert View Water Agency (BDVWA) entered into an agreement entitled the Ames Valley Water Basin Agreement; and,

WHEREAS, Section 12.0 of said agreement specifically provides for the amendment of said agreement; and,

WHEREAS, both parties to said agreement now desire to amend Section 3.4 of said agreement.

NOW, THEREFORE, in consideration of the mutual consent by both parties, said agreement shall be amended as follows:

Section 3.4 DATA EVALUATION. On or before February 1st of each calendar year HDWD and BDVWA shall submit to a qualified independent consultant, which has been agreed upon and selected by both parties, the data collected in the monitoring program for evaluation. On or before March 1st of each calendar year said consultant shall supply the parties hereto with a written report on the evaluation of the data supplied. The report shall also contain any recommendations derived from the evaluation of said data.

IN WITNESS HEREOF, the parties hereto have executed this amendment to said agreement pursuant to authorization from their respective Boards of Directors.

HDWD Board President — Date: 2/6/97

HDWD Board Secretary — Date: 1-23-97

BDVWA Board President — Date: 1/21/97

BDVWA Board Secretary — Date: 1/21/97

AMES VALLEY WATER BASIN WATER

AGREEMENT

COURT'S RULING AND RELATED ORDER ON HI DESERT'S MOTION TO REFORM THE JUDGMENT IN 2001

NOVEMBER 8, 2001

ROBERT H. CLARK, ESQ.
23560 Lyons Avenue, Suite 208
Santa Clarita, California 91321
(805) 259-9566

Attorney for Petitioners and Plaintiffs

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. 211504 JUDGMENT

On January 23, 1989, Bighorn Mountains Water Agency, a public entity, and Desert Water District, a public entity, and which entities are now consolidated under the provisions of the Bighorn-Desert View Water Agency Law, with the name Bighorn-Desert View Water Agency, filed in the Superior Court of the State of California

EXHIBIT 2

in and for the County of San Bernardino, as Case No. BCV 5157, a "PETITION FOR WRIT OF MANDATE [C.C.P. §§1085, 1086]; AND COMPLAINT FOR DECLARATORY RELIEF [C.C.P. §1060]." On March 6, 1989 a "RESPONSE AND ANSWER TO PETITION FOR WRIT OF MANDATE AND COMPLAINT FOR DECLARATORY RELIEF" was filed by defendant and respondent Hi-Desert Water District, a public entity, and real parties in interest Mainstream Water Development Company, a California limited partnership, and Mike V. Page, an individual doing business as Mainstream Water Development Company.

Venue in said Case No. 5157 was changed and it was transferred to the above-entitled court for trial or other disposition. It is now pending in this court. There has been filed herein a Stipulation for Judgment signed by all of the parties.

After due examination and consideration of the pleadings, said Stipulation for Judgment and other documents and papers on file herein, it appears to the Court that:

(a) On the basis of the Stipulation for Judgment filed herein and the consent of plaintiff and petitioner Bighorn-Desert View Water Agency (herein "BDVWA"), defendant and respondent Hi-Desert Water District (herein "HDWD"), and real parties in interest Mainstream Water Development Company and Mike V. Page, it is in the interests of justice and in furtherance of the purposes and objectives of the California Environmental Quality Act, to proceed without trial and to make and enter this Judgment.

(b) The declarations, determinations, and orders embodied in this Judgment, deal only with the production of water from the Ames Valley Water Basin and the use of such water within that basin. They do not deal with any environmental impacts that may be

associated with or result from the exportation of water produced from that basin for use outside of that basin. The declarations, determinations and orders constitute a feasible, equitable and just resolution of the issues presented by the complaint and petition, and answer thereto, on file herein, and which relate to such production of water from the Ames Valley Water Basin and the use of such water within that basin. Compliance with this Judgment will adequately mitigate and control the environmental impacts of the project which is the subject of this action.

Now, therefore, it is hereby ORDERED, ADJUDGED AND DECREED:

1. The Court has jurisdiction of the subject matter of this action and jurisdiction over plaintiff and petitioner Bighorn-Desert View Water Agency and defendant and respondent Hi-Desert Water District, those entities being the two parties having continuing rights, duties and obligations under the terms and provisions of this Judgment.

2. Water pumped from that certain well constructed on behalf of HDWD and located in Section 24, Township 2 North, Range 5 East, San Bernardino Base and Meridian, in San Bernardino County, California (referred to as the "Mainstream Well"), and any additional wells owned, operated, or controlled by HDWD within the Ames Valley Water Basin, is limited to a total of eight hundred (800) acre-feet per year. Any and all water delivered from such wells located within the Ames Valley Water Basin shall be used only within the Ames Valley Water Basin. The amount of water pumped by HDWD from the Ames Valley Water Basin may be increased, depending on the water needs of property owners within the Ames Valley Water Basin, by an amount equal to one-half acre foot per year for each

new residential water meter installed by HDWD following entry of this Judgment. The Ames Valley Water Basin is identified in Exhibit "A" to this Judgment, as set forth herein.

3. HDWD shall at its expense place a "sleeve," or other device, in the Mainstream Well to seal the upper aquifer and to prevent pumping of water from that zone. HDWD's engineer, in consultation with BDVWA's engineer, shall evaluate water quality individually in both the upper and lower aquifer and shall test for possible flow between the upper and lower aquifers. If there is agreement between those engineers that a "sleeve," or other device, is not required prior to production, the "sleeve," or other device, shall be installed by HDWD at a future date, if so required at that time.

4. HDWD and BDVWA shall establish and implement a groundwater monitoring program to mitigate any potential environmental damage to the hydrologic resources of the Ames Valley Water Basin caused by the Mainstream Well, or by additional production wells. Monitoring of the wells included in the program, as listed in Exhibit "B" to this Judgment, as set forth herein, shall commence immediately. Any new production wells shall as between the parties be deemed added automatically to Exhibit "B" for inclusion in the monitoring program, and if production shall be terminated as to any production well included in Exhibit "B," it shall be deemed dropped from the program.

5. The recording of well data, sampling, and the taking of well measurements, shall be accomplished by a team consisting of one representative each from HDWD and BDVWA. Working together, one team member shall sample, sound, and take readings and record them

on a form approved by both parties. The other team member shall confirm all recorded data, and both team members shall initial and date the form and distribute copies to the respective parties. Team members shall be instructed in correct data collection, sampling and sounding techniques.

6. All wells in the program shall be identified by State Well Number, where possible. All wells shall have a designated reference point (top of casing or measuring tube, etc.) and the elevation of the reference point of selected wells shall be determined by a surveyor prior to production. Each well to be monitored for production shall be equipped with a totalizing flowmeter reading in gallons per minute for pumping rate and in gallons per minute, or cubic feet, for total quantity pumped.

7. All well sounding measurements shall be taken with a sounding device approved by both parties. The sounding device shall be calibrated at the start of the program and recalibrated at least every six (6) months thereafter. Each production well shall be off, if possible, at least two (2) hours prior to sounding for a static level. The recovery time should be consistent for all readings taken at a given well. Well measurements shall be taken at the same time of the day and date of the month, insofar as possible. Any deviation from the regular monitoring schedule shall be so noted on the recording form. Water quality samples shall be taken from production wells and the method of sampling shall be consistent for all wells sampled. All laboratory testing shall be accomplished by the same firm, if possible. Samples shall be tested according to the latest requirements of Title 22 of the California Domestic Water Quality and Monitoring Regulations and other applicable regulations.

The frequency of monitoring shall be in accordance with Exhibit "C" to this Judgment, as set forth herein. HDWD and BDVWA shall provide to each other copies of all available historical well data, including static and pumping water levels, pumping quantities and water quality reports, and each party shall maintain identical data bases in a mutually-agreed format.

8. HDWD and BDVWA shall be responsible for the submission to, and evaluation of, monitoring data by, their respective consultants. Within thirty (30) days following the end of each six (6) month period, each respective consultant shall evaluate the collected data and make a written report on the progress of the monitoring program, including recommendations, if any. Copies of these and other applicable reports shall be distributed by each party to the other party.

9. Criteria which shall initiate immediate environmental review are identified in Exhibit "D" to this Judgment, as set forth herein. Any water level or water quality decline exceeding the criteria shall be cause for a written request for a reduction or cessation of the pumping of the Mainstream Well. Such request shall be delivered to the HDWD office and shall be documented with supporting data.

10. HDWD shall reduce pumping in the Mainstream Well to an amount not to exceed one (1) acre-foot per twenty-four (24) hour period within forty-eight (48) hours of receiving a written request from BDVWA. HDWD shall maintain the reduced pumping level until the general managers of HDWD and BDVWA, and their designated consultants, have reviewed collected data, met in conference to make recommendations, and have reached agreement regarding the future

operations of the well. If HDWD and BDVWA are unable to agree on a course of action within thirty (30) days from the date of the original request, reduced production in pumping shall continue and the matter shall be submitted for arbitration by an independent consultant, as provided in paragraph 13 of this Judgment.

11. BDVWA shall, if so requested in writing by HDWD, replace water production lost from the Mainstream Well during the period of reduced pumping, said replacement not to exceed six (6) months, at a price per acre-foot comparable to that then currently paid by HDWD for the lost production.

12. BDVWA and HDWD shall each designate the consultant to be retained to evaluate the data from the monitoring program. Such consultant shall remain the primary consultant of the party during the time this Judgment is in effect, unless notification of a change is provided in writing.

13. With respect to paragraph 10 of this Judgment, consultants for HDWD and BDVWA shall recommend an independent arbitrator who shall be capable of making proper evaluation of the data, and he shall provide recommendations on corrective action, if any. Said arbitrator will be retained to examine the data and reports of the consultants and make a binding determination on the impacts of the data and impose the most effective corrective action, if any. If the respective consultants of HDWD and BDVWA are unable to agree on a designated arbitrator within a forty-five (45) day period from the date of the original request, an arbitrator shall be appointed in accordance with the California Arbitration Act, Sections 1280 through 1294.2 of the Code of Civil Procedure. At any time following implementation of the arbitrator's decision either party

may request a conference as between the general manager of HDWD and BDVWA and their respective designated consultants, to reach agreement on a proposed modification or elimination of the corrective action imposed by the arbitrator. If the general managers and the designated consultants are unable to arrive at a mutually acceptable solution, the parties shall again proceed in accordance with this paragraph 13.

14. Program costs, other than in-house manpower, designated consultants and the support thereof, incurred by the parties relating to the program (survey, sampling, laboratory, arbitration, etc.), shall be shared equally by the parties.

15. The program shall be ongoing and may be expanded or terminated by the unanimous consent of the parties.

16. Each party shall indemnify, hold harmless and assume the defense of the other party, its officers, agents, employees, and elective boards, and each party shall pay all court costs and reasonable attorneys fees relating thereto, in any action, with respect to a claim, loss, damage or injury, asserted by a third party against the party entitled to indemnification under this Judgment, and arising out of a negligent act, error or omission, or wilful misconduct, of an employee or agent of the party whose actions under this Judgment gave rise to such third party claim.

17. Any notice, tender or delivery to be given hereunder by either party to the other, shall be effected by personal delivery in writing or by registered or certified mail, postage prepaid, return receipt requested, and shall be deemed communicated as of mailing or in case of personal delivery, as of actual receipt. Mailed notices shall be addressed as set forth below, but each party may change its

address by written notice in accordance with this paragraph 17.

TO: HI-DESERT WATER DISTRICT
6955 Old Woman Springs Rd.
Yucca Valley, CA 92284
Attention: General Manger

TO: BIGHORN-DESERT VIEW WATER AGENCY
Post Office Box 3838
1720 North Cherokee Trail
Landers, CA 92285
Attention: General Manager

18. Other than those disputes which shall be arbitrated under paragraph 13 of this Judgment, any dispute or controversy arising out of, under, or in connection with, or in relation to, this Judgment, or the breach thereof, shall be submitted to arbitration in accordance with the following procedures:

A party desiring arbitration ("First Party") shall give written notice to the other party ("Second Party") containing a general description of the controversy to be submitted to arbitration and designating by name and address three proposed arbitrators acceptable to the First Party, each of whom has agreed to act as arbitrator, if selected. If the Second Party agrees upon one of the three proposed arbitrators, the Second Party shall so advise the First Party in writing within ten (10) business days of such written notice by the First Party.

The arbitrator selected shall promptly give written notice of the arbitration hearing, which shall take place within sixty (60) days of the date that is selected by the arbitrator. The arbitration hearing shall take place at a location mutually agreeable to the parties, but within San Bernardino County, California.

If the Second Party fails to agree to the selection of one of the three proposed arbitrators within the ten (10) business day period, an arbitrator shall be appointed in accordance with the California Arbitration Act, Sections 1280 through 1294.2 of the Code of Civil Procedure.

The cost of the arbitration shall be paid by the parties equally. Except as otherwise provided by this Judgment, the arbitration shall be conducted and enforced in accordance with the provisions of the California Arbitration Act, Sections 1280 through 1294.2 of the Code of Civil Procedure.

19. Full jurisdiction, power and authority is retained and reserved by the Court for the purpose of enabling the Court, upon application of either HDWD or BDVWA by motion and upon at least thirty (30) days notice thereof, and after hearing thereon, to make such further or supplemental orders or directions as may be necessary or appropriate for the construction, enforcement or carrying out of this Judgment in a case where a dispute arises which cannot be resolved by the parties by arbitration. The responding and/or defending party who is determined to be the prevailing party in any such hearing shall be entitled to recover as costs upon the conclusion of such hearing all attorneys fees or other costs actually incurred in connection with resolving the dispute by the making of such motion and the hearing thereon.

20. The effective date of this Judgment is the date of its filing.

21. All parties shall bear their own costs of suit and their own attorneys fees.

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22. Exhibits "A" through "D" to this Judgment are made a part hereof and are set forth in the following pages of this Judgment.

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EXHIBIT "A"

AMES VALLEY WATER BASIN MONITORING PROGRAM
LEGAL BOUNDARIES OF THE AMES VALLEY WATER BASIN
(MAP ATTACHED)

The boundaries of the Ames Valley Water Basin, for the purposes of this monitoring program, shall be as follows: Township 1 North, Range 5 East, Sections 1, 2, 3, 10, 11, 12, 13, 14, 15, 22, 23, and 24; Township 1 North, Range 6 East, Sections 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20, and 21; Township 2 North, Range 5 East, Sections 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 33, 34, 35, and 36; Township 2 North, Range 6 East, Sections 2,3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 32, 33, and 34; all located within San Bernardino County.

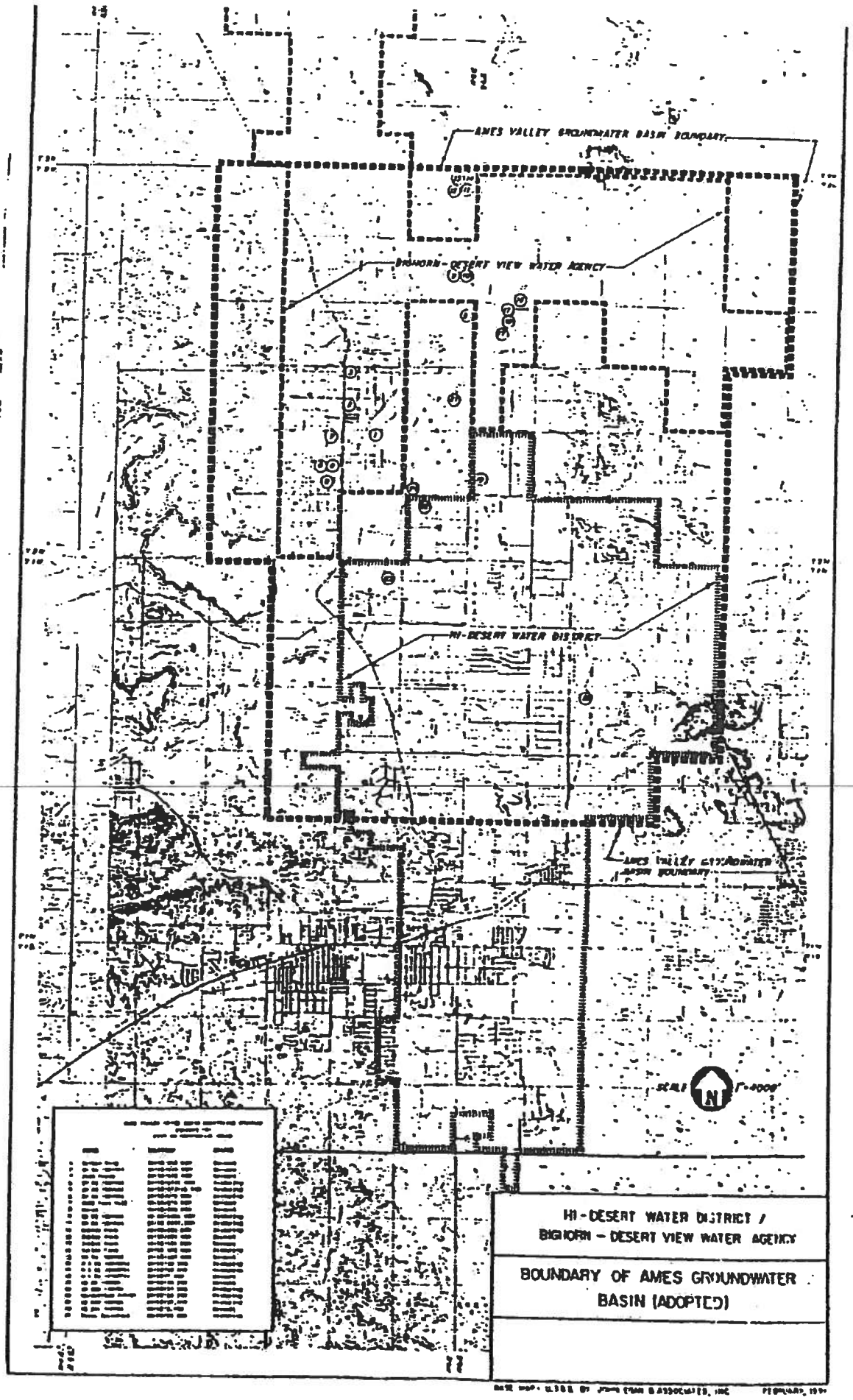
AMES VALLEY GROUNDWATER BASIN BOUNDARY
BIGHORN-DESERT VIEW WATER AGENCY
HI-DESERT WATER DISTRICT
AMES VALLEY GROUNDWATER BASIN BOUNDARY
SCALE
N
HI-DESERT WATER DISTRICT /
BIGHORN – DESERT VIEW WATER AGENCY
BOUNDARY OF AMES GROUNDWATER BASIN (ADOPTED)

EXHIBIT "B"

AMES VALLEY WATER BASIN MONITORING PROGRAM
LIST OF MONITORING WELLS

OWNER	LOCATION	STATUS
Archie King	2N/5E/26B,SBM	Dormant
DV #1 (BDVWA)	2N/5E/23M,SBM	Dormant
Joan Hayes	2N/5E/23D,SBM	Dormant
DV #2 (BDVWA)	2N/5E/27J1,SBM	Producing
DV #3 (BDVWA)	2N/5E/27J01S,SBM	Producing
DV #4 (BDVWA)	2N/5E/27R,SBM	Producing
USGS Test Well	2N/5E/27A,SBM	Dormant
Moran	2N/5E/13A,SBM	Dormant
BH #16 (BDVWA)	2N/5E/12B1,SBM	Producing
BH #17 (BDVWA)	2N/5E/12B2,SBM	Producing
Gubler Farm	2N/5E/1K1,SBM	Producing
Gubler Farm	2N/5E/1K2,SBM	Dormant
Gubler Farm	2N/5E/1G1,SBM	Dormant
Gubler Farm	2N/5E/1H1,SBM	Producing
BH #1 (BDVWA)	2N/6E/18P,SBM	Dormant
W-1 #3 (COUNTY)	2N/5E/18,SBM	Producing
W-1 #2 (COUNTY)	2N/6E/18,SBM	Producing
W-1 #1 (COUNTY)	2N/6E/7,SBM	Dormant
HD #6 (HDWD)	2N/6E/30,SBM	Dormant
HD #10 (HDWD)	1N/6E/17,SBM	Producing
MAINSTREAM (HDWD)	2N/5E/24,SBM	Producing
HD #20 (HDWD)	2N/6E/36,SBM	Producing
HD #21 (HDWD)	2N/5E/2,SBM	Dormant
Patty Karawczyk	2N/5E/25,SBM	Producing

EXHIBIT "C"

AMES VALLEY WATER BASIN MONITORING PROGRAM
WELL MONITORING FREQUENCY

TIME INTERVAL	GROUNDWATER LEVELS	GROUNDWATER QUALITY	GROUNDWATER PRODUCTION
0 to 15	Every 5 Days	1st Day Only	Daily
16 to 30	Every 7 Days	Day 30	Daily
31 to 90	Every 14 Days	Day 90	Daily
Over 91	Monthly	Annually	Daily

NOTES:

1. Time interval is in number of days from the start of production from the Mainstream Well.

2. Static groundwater levels apply to all monitoring wells. Pumping levels on production wells should be noted at least once monthly, where possible.

3. Groundwater quality is applicable to production wells only. Production wells located in pairs shall be considered a single wellfield and water samples shall be rotated between each.

EXHIBIT "D"

AMES VALLEY WATER BASIN MONITORING PROGRAM
CRITERIA FOR IMPLEMENTING ENVIRONMENTAL REVIEW

Cumulative Water Level Decline in Feet over Time Period:

	2 Mo.	3 Mo.	6 Mo.	9 Mo.	+12 Mo.
Production Wells	7	8	9	10	11
Other Wells	2	3	3	3	4

Cumulative Water Quality Decline in Percent over Time Period:

	2 Mo.	3 Mo.	6 Mo.	9 Mo.	+12 Mo.
Fluoride Increase	30	30	30	30	30
TDS Increase	20	20	20	20	20
Alpha Increase	50	50	50	50	50
Other Components	50	50	50	50	50

NOTES:
1. All Criteria is measured relative to values in individual monitoring wells that shall be measured prior to the start of production in the Mainstream Well. These values will constitute the "Baseline Values" for Water Levels and Water Quality. The initial measurements shall be reviewed by the parties for consistency with historical measurements.

Dated: JUN 03 1991

E. MICHAEL KAISER

Judge of the Superior Court

SUPERIOR COURT OF CALIFORNIA, COUNTY OF RIVERSIDE

TITLE:	DATE & DEPT:	NUMBER:
BIGHORN-DESERT VIEW WATER vs. HI-DESERT WATER DISTRICT	11/8/01 D-3	RIC 211504
COUNSEL: None present	**REPORTER:** None	

PROCEEDING:
RULING ON MOTION FOR RELIEF FROM OR REFORMATION OF CONTRACT AND STIPULATED JUDGMENT

On July 5, 2001 Hi-Desert Water District ("Hi-Desert") filed a motion for relief from or reformation of contract and stipulated judgment ("Motion"). The Motion was heard on September 20, 2001. Attorneys Eric L. Garner, Jeffrey V. Dunn and Theresa E. Antonucci appeared for Hi-Desert. Attorney James D. Ciampa appeared for Bighorn-Desert View Water Agency ("Bighorn").

The court, having read and considered all of the submitted material and the arguments of counsel, rules as follows:

HISTORY:

In 1991, Hi-Desert and Bighorn entered into a stipulation for judgment. The Judgment, filed on June 3, 1991 ("Judgment"), was preceded by the Ames Valley Water Basin Agreement of January 10, 1991 ("Agreement") and Stipulation for Judgment filed on June 3, 1991 ("Stipulation"). The Judgment concerned Hi-Desert's proposed construction of a new production well on land owned by the Bureau of Land Management in the Ames Valley Water Basin. The proposed well was in an area between Hi Desert's service area and Bighorn's service area. Bighorn's service area lies generally north of Hi-Desert's service area. The new well constructed as a result of the Judgment is referred to as the Mainstream Well or Well 24.

The California Department of Water Resources and the U.S. Geological Survey use different criteria to describe the geological area identified in the Judgment. The Judgment, Stipulation and Agreement identify the area as the Ames Valley Water Basin ("Basin"). The Basin contains two (2) sub-basins: Pipes and Reche. All recharge to the Reche sub-basin is by subsurface flow across the Pipes barrier. (Lewis, 1972)[1] The estimates of the amount of recharge to the Basin vary dramatically. Hi-Desert admits that the amount of recharge is unknown.

[1]Rasmussen and Associates Report, September 30, 1988

KAISER, Judge

Portillo(re), Clerk

THE MOTION:

Hi-Desert brings the Motion pursuant to the court's continuing jurisdiction in paragraph 19 of the Judgment, requesting modification of the Agreement and Judgment. Paragraph 19 of the Judgment provides that, the court retain full jurisdiction and authority "to make such further or supplemental orders or directions as may be necessary or appropriate for the construction, enforcement or carry-out of the judgment . . ."

First, Hi-Desert seeks a modification of the Agreement. Hi-Desert wants the Agreement's definition of the "Yucca Mesa Area" expanded to include an additional six-hundred and ninety-two (692) connections ("Unserved Area") located in the Hi-Desert service area.

Second, Hi-Desert asks to strike Section 2.0 of the Agreement and the corresponding portion of the Judgment.

Third, Hi-Desert asks to strike Sections 5.0 and 5.3 of the Agreement and the corresponding portions of the Judgment because these sections represent an unconstitutional delegation of powers vested in Hi-Desert's governing board.

DECISION:

At the time Hi-Desert entered into the Agreement, Stipulation and Judgment, Hi-Desert's service area included areas within the Basin and the Warren Basin. Hi-Desert contends that the Unserved Area outside of the Basin was inadvertently omitted from the definition of the "Yucca Mesa Area" in the Agreement. Thus, the Agreement is based upon the parties' mutual mistake of fact or at the very least, Hi-Desert's unilateral mistake.

The Agreement clearly provides, in the recitals, that the intent of the Agreement is to deal with the environmental impact from water extraction in the Basin. (Recital E). Section 2.0 of the Agreement provides that water diverted from wells within the Basin will be used only within the Basin. The legal boundaries of the Basin are set forth in Exhibit "A" to the Agreement.

The Stipulation filed on June 13, 1991 states in part as follows:

> ". . . [a]nd with respect to the production of water from the Ames Valley Basin and the use of such water within the basin, as opposed to the exportation of such water and its use outside of that basin."

The Judgment, filed on June 3, 1991 refers to the production of water within the Basin for use within the Basin. The Judgment also provides, "the amount of water pumped by HDWD from the Ames Valley Water basin may be increased, depending on the water needs of property owners within the Ames Valley Water Basin . . ." Exhibit "A" to the Agreement and a map are attached as exhibits to the Judgment. The

map outlines the service areas of Hi-Desert, Bighorn and the Basin boundaries.

Hi-Desert's motion seeks to expand the Agreement's definition of the "Yucca Mesa Area." The term "Yucca Mesa Area" is not used in the Agreement, the Stipulation or the Judgment. The Agreement, the Stipulation and the Judgment are specific in the use of the term "Ames Valley Water Basin." The intent of the parties is clear and precise. The water pumped within the Basin is to be used within the Basin.

In the materials submitted by the parties, there is some reference to the Yucca Mesa alluvial fan and the Yucca Mesa Area. It is not clear from these references that the Yucca Mesa Area includes the Unserved Area. Even if the "Yucca Mesa Area" includes the unserved area, the intent of the Agreement, the Stipulation and the Judgment is clear and unambiguous.

Where both parties to an agreement are mistaken as to a fact so material as to destroy or vitiate the essential basis on which they entered into the agreement, either party may seek recision or restitution if enforcement would work as a material hardship on him. (1 Witkin, Summary of California Law, (9th ed. 1987) Contracts, §365, et. seq.) The evidence does not support grounds for relief on the basis of mutual mistake.

Hi-Desert contends that it will suffer and it's rate payers will suffer either because of the lack of water or the increased cost of water. This alleged hardship is neither an extreme, unforseen or unexpected hardship. As far back as 1977 Hi-Desert's need for supplemental water was recognized in the Warren Basin Judgment.[2]

From the date of filing of the petition for writ of mandate, Hi-Desert was on notice that the issues in dispute were, (1) the extraction of water from the Basin; (2) the transport of the water outside the Basin, and (3) the feasibility of using state project water as an alternative. (Writ of Mandate, filed January 23, 1989, ¶20A and 25)

A unilateral mistake of fact involves a misunderstanding about some basic material fact. Unilateral mistakes require some act by the other party. Relief is not available where the mistake is caused by the negligence or error in judgment of the person making the mistake.

The parties signed three documents. The clear and unambiguous language of the three documents precludes a finding of unilateral mistake. Also, the power of the court to exercise its jurisdiction, does not apply to the modification sought by Hi-Desert because no relief sought by Hi-Desert relates to the unreasonable use or waste of water. (Big Bear Municipal Water District v. Bear Valley Mutual Water Co., (1989) 207 Cal.App.3d. 363)

The parties agree that Section 5.3 of the Agreement and Paragraph 12 of the Judgment are an

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[2]Exhibit A to the Declaration of Charles Bryant, filed July 5, 2001, pars. 8 and 17.

KAISER, Judge

Portillo(re), Clerk

unconstitutional delegation of their respective governing board's authority and should be stricken.

The court finds as follows:

1) The 1991 Judgment was the result of a stipulated agreement by the parties;
2) The intent of the parties to the Agreement controlled the interpretation of the terms of the Judgment.
3) The parties intended the court to reserve jurisdiction to construct, enforce or carry out the Judgment, not to modify the Judgment to affect the substantive rights of the parties. To strike Section 2.0 of the Agreement and the corresponding portion of the Judgment would be a modification affecting the substantive rights of the parties.
4) The court does not have jurisdiction under Article X, Section 2 of the California Constitution.
5) The evidence does not support a finding of mutual or unilateral mistake.
6) The motion for relief from or reformation of the contract is denied.
7) Hi-Desert to prepare an order striking Section 5.3 of the Agreement and Paragraph 12 of the Judgment.

Ruling on the objections to declarations:

1. Bighorn's objections
   a) Declaration of Martin Stockstill
      sustained
   b) Declaration of Charles Bryant
      (1) sustained; (2) sustained

2. Hi-Desert's objections
   a) Declaration of Ruth Riemon
      (8) overruled; (9) sustained; (10) overruled

   b) Declaration of Andrea Donnelly
      (3) sustained; (4) sustained

   c) Declaration of Robert Hefner
      (5) overruled; (6) overruled

   d) Declaration of Philip Johnson
      (1) overruled; (2) overruled

   e) Declaration of James Ciampa
      (13) sustained

   f) Stanley Zarahor
      The objections to pars. 3, 4, 5 and 6 are sustained.

KAISER, Judge

Portillo(re), Clerk

SUPERIOR COURT OF CALIFORNIA, COUNTY OF RIVERSIDE
[√] 4050 MAIN ST RIVERSIDE, CALIFORNIA 92501
[ ] 41002 COUNTY CENTER DR. TEMECULA, CALIFORNIA 92591
[ ] 880 NORTH STATE STREET HEMET, CALIFORNIA 92543
[ ] 505 SO. BUENA VISTA AVE CORONA, CALIFORNIA 91720
[ ] 3547 TENTH STREET, RIVERSIDE, CALIFORNIA 92501
[ ] 155 E. HAYS STREET, BANNING, CALIFONIA 92220
[ ] 117 S. LANGSTAFF, LAKE ELSINORE, CALIFORNIA 92530

CLERKS CERTIFICATE OF MAILING

PLAINTIFF: BIGHORN MOUNTAINS WATER AGENCY
VS.
DEFENDANT: HI-DESERT WATER DISTRICT

Case No. 211504

TO: BEST, BEST, & KRIEGER
3750 UNIVERSITY AVENUE
SUITE 400
RIVERSIDE CA 92501

I, clerk of the above entitled court, do hereby certify I am not a party to the within action or proceeding; that on the date below indicated, I served a copy of the attached RULING[by depositing said copy enclosed in a sealed envelope with postage thereon fully prepaid in the mail at Riverside, California addressed as above.

CLERK OF THE COURT

Dated: 11/08/01

By: R. Esparza
ROSE ESPARZA

Hon. L. A. Simmons
Superior Court Judge, Retired
Judicial Arbitration and Mediation Service (J.A.M.S.)
650 E. Hospitality Lane, #125
San Bernardino, CA 92408
Tel: 909-885-7473
Fax: 909-889-2162

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF RIVERSIDE

BIGHORN-DESERT VIEW WATER AGENCY Plaintiff vs. HI-DESERT WATER DISTRICT Defendant	CASE NO. 211504 FINDINGS AND AWARD AFTER ARBITRATION

The above captioned matter came on for binding arbitration on January 7, 2001 at the offices of Judicial Arbitration and Mediation Service (J.A.M.S.), the Hon. L. A. Simmons, Judge (Ret.) Presiding. All parties were present and represented by counsel . Oral testimony was received and exhibits were submitted by both sides. Thereafter, a telephone conference was had between counsel and the arbitrator and on February 8, 2001 an additional conference was held at J.A.M.S. which was attended by all counsel and the arbitrator. Additional argument was had and documents submitted relating to the reservations expressed by the arbitrator about the defined scope of the arbitration award. Counsel for Bighorn thereafter submitted an additional written comment addressing those reservations.

Having read and considered all of the submitted material, together with the comments of counsel, the following award is rendered. However, some threshold observations are necessary. First, counsel for Hi-Desert Water District has urged that this arbitrator terminate the agreement entered into between Hi-Desert Water District and Bighorn-Desert View Water Agency in 1991. The agreement, of course, has long since been incorporated into a judgment of the Riverside Superior Court. While the parties can stipulate that the court can amend the judgment to conform to some

stipulation upon which they mutually agree, an arbitrator has no jurisdiction to amend, let alone terminate, such an integral part of a court judgment. It seems clear that the parties themselves would be well advised to revisit the terms of the earlier agreement to seek agreement on modifications, but this arbitrator is without legal authority to make such an adjustments.

The parties have reached some stipulations relating to the dispute which initially brought these controversies into arbitration. Those stipulations are repeated here for clarity. Specifically the parties agree as follows:

1. Installation of a sleeve in Well 24 is not necessary at this time. A sleeve may be required in the future if the water quality declines.

2. At this time, there has been only limited degradation in water quality in excess of the environmental review criteria set forth in Exhibit D to the Judgment and Agreement in one of the wells in the monitoring program (Bighorn Well No. 2). However, water quality should continue to be monitored.

3. The Johnson Valley Fault acts as a hydraulic barrier, although it may be permeable to some extent in some locations, between the Pipes and Reche subbasins.

4. At this time, Hi-Desert's pumping from Well 24 does not appear to be directly negatively impacting the water levels at any of the wells in the Pipes subbasin, including but not limited to Bighorn Wells 2, 3, 4, and 8, and the USGS Monitoring Well.

5. Most of the decline in the water levels in the wells in the Pipes subbasin, including but not limited to Bighorn Wells 2, 3, 4, and 8, and the USGS Monitoring Well, appears to have been caused by the use of the intertie from 1992 to 1996 and the resulting increase in pumping, and the Joshua Tree and Landers earthquakes in 1992.

6. At this time, there is not enough evidence to conclude that Well 24 is directly causing water level declines at any other wells in the Ames Valley Basin.

7. The current well monitoring program should be improved to enable the actual effects of pumping within the Ames Valley Basin to be more accurately identified and analyzed. This may require the construction of a reasonable number of new and utilization of existing appropriate monitoring wells and improved data gathering protocols.

8. Recharge in the area of the Reche subbasin southeast of the bedrock ridge may have little to no effect on water levels to the north of the bedrock ridge.

The current controversy began when Bighorn-Desert View Water Agency observed that the water levels in several of the monitoring wells had dropped below, or nearly below, the environmental triggering level described in the agreement/judgment. That problem has been determined by the stipulations to be an issue no longer. As a result, the evidence does not support the existence of the dangers of compaction described in the Rasmussen & Associates report of November 30, 2000. Moreover, the Gsi/water study, "Investigations of Possible Effects of Pumping Hi-Desert District Well 24 in the Reche Subbasin...", dated November 30, 2000, is persuasive in its conclusion, on page 47:

> In summary, the evidence is very strong that Well 24 was not responsible for the water level declines in the Bighorn wells in Flamingo Heights. Well 24 certainly could not have been responsible for the start of the water level declines, because it did not begin pumping for more than a year later.

Given the data collected, reviewed, and stipulated to by the parties, it does not appear by a preponderance of the evidence that the pumping limitation of 800 acre feet contained in the agreement and the judgment, or the permitted expansion thereof to accommodate additional connections, is in need of reduction.

Pursuant to the stipulations, the monitoring program now in place must be redesigned to assure the gathering of more dependable data. The testimony received in the arbitration hearing supports the drilling to at least three new wells for that purpose. The precise location and design of those wells should be proposed by Dr. Birman and his associates. The proposal shall be submitted to the governing boards of Hi-Desert Water District and Bighorn-Desert View Water Agency for comment and then submitted to this arbitrator for review, adoption and incorporation into this award. Such process shall be completed within 180 days from the date of this award, unless extended by mutual agreement of the parties. The cost of implementation of such monitoring redesign, and implementation, including the cost of the proposal preparation by Gsi/water, shall be borne equally by the agencies.

The question of the restriction of usage of water taken from Well 24 to the Ames Valley

Basin presents a difficult problem. It seems clear from a reading of the Agreement, and the Judgment which incorporated the Agreement, that the parties intended, and the court ordered, that the quantities of water taken from Well 24 be returned in equal quantities to the Ames Valley Water Basin by providing for its usage exclusively within that Basin. That such a provision was unnecessary is made plain by the stipulations and the facts indicated in the Gsi/water report. Namely, notwithstanding the use of the water outside of the Ames Valley Water Basin for years, the area does not demonstrate any environmental endangerment. The utility of such a provision is highly questionable and needs to be reexamined by the parties. However, its present existence in the judgment is an inescapable fact of life. No legal basis for relief from that provision is provided in Hi-Desert Water District's papers, or in the evidence. Given the availability of State Water Project water through the Mojave Water Agency, the difficult consequences for its customers outside the Ames Valley Water Basin area, described in Hi-Desert Water District's brief, is probably not a problem without a remedy. To require the unplanned interruption of the water as presently used, however, could create a legitimate concern, in the short run, for the health, safety and well being of those customers. Accordingly, the present usage may continue for a period of one year from the date of this award to allow for an opportunity for the governing boards of the agencies to meet and confer over this, and other provisions of the agreement. Thereafter, if the agreement is not modified, the usage restriction shall be honored. Bighorn seems to suggest that Hi-Desert Water District should not be entitled under the agreement to supply recharge water to the Ames Valley to replace water taken from Well 24 and used outside of that Basin. This is yet another shortcoming of the agreement that needs to be reexamined by the parties for further clarification. Nothing in the present agreement appears to this arbitrator to prevent such an arrangement.

The intertie facilities were planned as a means to allow Bighorn to act to protect its water supplies when the environmental triggers described in the agreement were noted. The facilities allowed Bighorn to protect its interests and at the same time allow Hi-Desert Water District's interests to be protected by the transfer of water to replace that formerly taken from Well 24. The intertie, therefore, was designed to serve the interests of both parties. The cost of its reconstruction should be borne equally by both agencies.

The agreement/judgment is clear as to the method of cost calculation for replacement water in the event Bighorn requires production limitations. That method ties the replacement cost to the cost of production. The cost for the 27.97 acre feet supplied by Bighorn is $65.48 per acre foot.

Hi-Desert Water District seeks its attorney's fees in connection with the Temporary Restraining Order it obtained before the commencement of this arbitration proceeding. The agreement provides that attorney's fees are authorized only if "litigation is filed and judgment is rendered." Agreement, Section 11.0 (Emphasis added) Code of Civil Procedure, Section 577 defines a "judgment" as follows: "A judgment is the final determination of the rights of the parties in an action or proceeding." Section 1003 of the Code of Civil Procedure also provides: "Every direction of a court or judge, made or entered in writing, and not included in a judgment, is denominated an order. An application for an order is a motion." Paragraph 19 of the Judgment, while not incorporating the agreement language in its entirety, indicates that attorney's fees may be obtained where disputes arise which cannot be resolved by arbitration. Further, such matters are required to be filed and served upon 30 days notice. In this matter Hi-Desert Water District applied for a Temporary Restraining Order on two days notice, and obtained the same. Such an order was not, however, a "judgment" under the provisions of the code or of the agreement and did not qualify under paragraph 19 of the judgment. Accordingly, the request for attorney's fees for that application must be denied.

As suggested in the papers filed by counsel for both parties to this dispute, there are several provisions of the agreement, and the incorporating judgment, which require further examination and attempts to clarify, modify, and improve its terms. This dispute underlines the need for such clarification. In the interest of the constituents of both agencies, this arbitrator urges the parties to cooperate in an effort to preserve, protect, and make effective use of the critical resources under their control.

Dated: 2/28/2001

L. A. Simmons
Superior Court Judge, Retired
Arbitrator

PROOF OF SERVICE BY FACSIMILE

1013a (3) C.C.P.

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES

I am employed in the county of Los Angeles, State of California. I am over the age of 18 and not a party to the within action; my business address is 350 South Figueroa Street, Suite 990, Los Angeles, California 90071.

On March 1, 2001, I served the foregoing document described as **FINDINGS AND AWARD AFTER ARBITRATION** on the interested parties in this action, as follows:

Theresa Antonucci Esq.
Best, Best & Krieger LLP
3750 University Ave.
Suite 400
Riverside, CA 92501

James Ciampa Esq.
Lagerlof, Senecal, et al.
10th Floor
301 North Lake Avenue
Pasadena, CA 91101-4108

Timothy Gosney Esq.
Lagerlof, Senecal, et al.
10th Floor
301 North Lake Avenue
Pasadena, CA 91101-4108

Jennifer Buckman Esq.
Best, Best & Krieger LLP
3750 University Ave.
Suite 400
Riverside, CA 92501

(X) By Mail: as follows: I am "readily familiar" with the firm's practice of collection and processing of correspondence for mailing with the United States Postal Services. I know that the correspondence was deposited with the United States Postal Service on the same day this declaration was executed in the ordinary course of business. I know that the envelope was sealed and, with postage thereon fully prepaid, placed for collection and mailing on this date in the United States mail at Los Angeles, California.

( ) By Personal Service: I delivered such envelope by hand to the above addressee(s).

( ) By Overnight Courier: I caused the above-referenced document(s) to be delivered to an overnight courier service (Federal Express), for delivery to the above addressee(s).

(X) By Facsimile Transmission: I caused the above-referenced document(s) to be transmitted to the above named person(s) at the telecopy numbers on the attached list. Executed on March 1, 2001.

I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

Angela Chevalier

John E. Brown, Bar No. 065322
Jeffrey V. Dunn, Bar No. 131926
Eric L. Garner, Bar No. 130665
Theresa E. Antonucci, Bar No. 175139
LAW OFFICES OF
BEST BEST & KRIEGER LLP
3750 UNIVERSITY AVENUE, SUITE 400
P.O. BOX 1028
RIVERSIDE, CALIFORNIA 92502-1028
TELEPHONE: (909) 686-1450
TELECOPIER: (909) 686-3083
Attorneys for Respondent and Defendant
HI-DESERT WATER DISTRICT

EXEMPT FROM FILING FEES
PURSUANT TO GOV. CODE § 6103

RECEIVED
MAR 25 2002

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

BIGHORN-DESERT VIEW WATER AGENCY, a public entity,

Petitioner and Plaintiff,

v.

HI-DESERT WATER DISTRICT, a public entity,

Respondent and Defendant.

Case No. RIC 211504

Judge: Hon. E. Michael Kaiser

[AMENDED PROPOSED] ORDER RE MOTION FOR RELIEF FROM OR REFORMATION OF CONTRACT AND STIPULATED JUDGMENT

Date: September 20, 2001
~~Time:~~ ~~8:30 a.m.~~
Dept: 3

The Motion for Relief From or Reformation of Contract and Stipulated Judgment ("Motion") by Hi-Desert Water District came on for hearing on September 20, 2001, at 8:30 a.m. in Dept. 4 of the above-entitled court. Eric L. Garner, Jeffrey V. Dunn and Theresa E. Antonucci appeared on behalf of Hi-Desert Water District, and James D. Ciampa appeared on behalf of Bighorn-Desert View Water Agency.

The Court, having duly considered all documentary and oral evidence in support of and in opposition to the Motion, and good cause appearing therefore:

IT IS HEREBY ORDERED THAT Section 5.3 of the Ames Valley Water Basin Agreement dated January 10, 1991 and Paragraph 13 of the Stipulation for Judgment dated June 3, 1991 are stricken effective as of the Court's ruling on this matter on November 8, 2001.

DATED: _____, 2002

E. Michael Kaiser
Judge of the Superior Court

LAW OFFICES OF
BEST BEST & KRIEGER LLP
3750 UNIVERSITY AVENUE
POST OFFICE BOX 1028
RIVERSIDE, CALIFORNIA 92502

PROOF OF SERVICE

I, Theresa G. Lamboy 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 Best Best & Krieger LLP, 3750 University Avenue, Suite 400, P.O. Box 1028, Riverside, California 92502-1028. On March 22, 2002, I served the within documents:

[AMENDED PROPOSED] ORDER RE MOTION FOR RELIEF FROM OR REFORMATION OF CONTRACT AND STIPULATED JUDGMENT

☐ by transmitting via facsimile the document(s) listed above to the fax number(s) set forth below on this date before 5:00 p.m.

☒ by placing the document(s) listed above in a sealed envelope with postage thereon fully prepaid, in the United States mail at Riverside, California addressed as set forth below.

☐ by causing personal delivery by of the document(s) listed above to the person(s) at the address(es) set forth below.

☐ by personally delivering the document(s) listed above to the person(s) at the address(es) set forth below.

☐ I caused such envelope to be delivered via overnight delivery addressed as indicated on the attached service list. Such envelope was deposited for delivery by **United Parcel Service via overnight mail** following the firm's ordinary business practices.

Timothy J. Gosney, Esq.
James D. Ciampa, Esq.
Lagerlof, Senecal, Bradley, Gosney & Kruse, LLP
301 North lake Avenue, 10th Flr.
Pasadena, CA 91101

I am readily familiar with the firm's practice of collection and processing correspondence for mailing. Under that practice it would be deposited with the U.S. Postal Service on that same day with postage thereon fully prepaid 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 above is true and correct.

Executed on March 22, 2002, at Riverside, California.

Theresa G. Lamboy

Theresa G. Lamboy

LAW OFFICES OF
BEST BEST & KRIEGER LLP
3750 UNIVERSITY AVENUE
POST OFFICE BOX 1028
RIVERSIDE, CALIFORNIA 92502

APPENDIX F

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT
and
MONITORING PROGRAM PLAN

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

This Agreement ("the Agreement" hereinafter) is made and entered into by and among Bighorn Desert View Water Agency ("BDV" hereinafter), County of San Bernardino Special District County Service Area No. 70 Zone W-1 Landers ("W-1" hereinafter), County of San Bernardino Special District County Service Area No. 70 Zone W-4 Pioneertown ("W-4" hereinafter), Hi-Desert Water District ("Hi-Desert" hereinafter) and Mojave Water Agency ("MWA" hereinafter) who are collectively referred to herein as "Parties" and individually referred to herein as a "Party."

A. Recitals

(i) Bighorn Desert View Water Agency is a public entity organized and operating pursuant to the provisions of the Bighorn Desert View Water Agency Law, California Water Code Appendix, Sections 112-1 *et. seq.*

(ii) Hi-Desert Water District is a County Water District organized and operating pursuant to the provisions of the County Water District Law, California Water Code Sections 30,000 *et. seq.*

(iii) Mojave Water Agency is a public entity organized and operating pursuant to the provisions of the Mojave Water Agency Law, California Water Code Appendix Sections 97-1 *et. seq.*

(iv) County of San Bernardino Service Area No. 70 W-1 Landers is a public entity governed by the San Bernardino County Board of Supervisors pursuant to the provisions of California Government Code Sections 25210 *et. seq.*

(v) County of San Bernardino Service Area No. 70 W-4 Pioneertown is a public entity governed by the San Bernardino County Board of Supervisors pursuant to the provisions of California Government Code Sections 25210 *et. seq.*

(vi) BDV and Hi-Desert entered into an agreement entitled "Ames Valley Water Basin Agreement" effective January 10, 1991 ("the Original Agreement" hereinafter) which was the result of a CEQA complaint against Hi-Desert by BDV's predecessor agency.

(vii) The Original Agreement provided for the settlement of a lawsuit protesting the adequacy of an environmental impact report through the entry of a Judgment by which a water production well referred to as the Section 24 Well (Main Stream Well) and other water production facilities owned and operated by Hi-Desert would be governed, the groundwater basin monitored and the water supplies therein protected.

(viii) That Judgment, dated June 3, 1991 was entered in Riverside County Superior Court Case No. 211504 ("the Judgment" hereinafter).

(ix) The Original Agreement was amended twice, as of August 12, 1993 and then as of February 3, 1997 and the Judgment was amended pursuant to a Court order dated November 8, 2001.

(x) Portions of the groundwater basin referred to in the Original Agreement and the Judgment as Ames Valley Groundwater Basin now are commonly referred to as the Pipes and Reche Groundwater Sub-basins and, together with that area commonly referred to as Pioneertown, form a management area for purposes of this Agreement that is referred to herein as "the Basin." The boundaries of the Basin are generally described in Exhibit A and depicted on Exhibit B hereto. The Parties hereto have conducted studies which indicate that substantial portions of the Basin are likely overdrafted and that approximately 400,000 acre-feet or more subsurface storage space is available in the Basin. The studies conducted by the Parties have also estimated the amount of water available perennially in the Basin due to natural supplies, the amount of water produced from the Basin from calendar year 2004 through calendar year 2008, and the feasibility of a project by which MWA would import and recharge state project water to the Basin through facilities located on property owned by the federal Bureau of Land Management and leased by BDV, thereby supplementing the local water supply. For purposes of applicable environmental laws, BDV is named the lead project proponent for this project known and referred to as the Ames/Reche Spreading Grounds and Recovery Program.

(xi) BDV, W-1, W-4 and Hi-Desert all wish to increase the amount of water available in the Basin and to make the Basin a more reliable source of water to be served to residents and businesses. MWA supports the efforts of those Parties and wishes to enhance its ability to store water resources and increase the reliability of regional water supplies.

(xii) In furtherance of this Agreement and the Ames/Reche Spreading Grounds and Recovery Program, the Ames/Reche Groundwater Management Plan is being developed to provide a basis for long-term management of local groundwater resources.

(xiii) The purposes of the Agreement are to establish mechanisms for the management and water supply reliability of the Basin, to bring the Basin demand and supply into operational balance, and to establish the groundwater production and storage rights of the Parties within the Basin.

(xiv) In order to implement the Agreement, the Parties shall enter into a Stipulation to Enter an Amended and Restated Judgment which supersedes the Judgment and which embodies the terms and conditions of this Agreement. W-1, W-4 and MWA will seek to intervene as Parties in the case and join in a joint motion of all Parties hereto for the entry of the Amended and Restated Judgment.

B. Agreement

NOW, THEREFORE, the Parties hereto agree as follows:

1. Upon the Recharge Facilities described in paragraph 3 below being fully completed and operative, the Parties will promptly enter into and jointly file a Stipulation for Entry of an Amended and Restated Judgment embodying the terms and conditions of this

Agreement including, but not limited to, an injunction prohibiting the production of water from or storage of water in the Basin by any Party which is not based on production and storage rights articulated herein, and take any and all actions necessary to support the Court's entering said Amended and Restated Judgment. W-1, W-4 and MWA shall at the same time move to intervene as Parties to that Amended and Restated Judgment.

2. There hereby is established for BDV, W-1, W-4 and Hi-Desert the following water production allowances ("Annual Baseline Amounts" hereinafter) based upon a methodology agreed to by the Parties. The Annual Baseline Amounts are based upon 135% of amounts produced from the Basin by the Parties from calendar year 2004 through calendar year 2008, as verified by meter readings or energy usage data:

Party	Annual Baseline Amount
CSA 70 .Z. W-1 (Landers)	267 Acre Feet
CSA 70 .Z. W-4 (Pioneer Town)	35 Acre Feet
Hi-Desert Water District	703 Acre Feet
Bighorn Desert View Water Agency	641 Acre Feet

Commencing upon entry of the Amended and Restated Judgment referred to above, each Party shall have the right to produce native water from the Basin in each fiscal year (July 1 - June 30) equal to its Annual Baseline Amount, prorated for any partial fiscal year on a 365 day year basis, subject to the terms and provisions hereof. Any Party withdrawing less than its Annual Baseline Amount in any fiscal year may carryover its right to produce that unproduced amount for the next two fiscal years. The first water produced at any time by any Party shall be deemed to be water credited to the Party which has been carried over for two fiscal years and the next water produced by that Party shall be deemed to be water credited to that Party which has been carried over for one fiscal year. Any Annual Baseline Amount not produced by that Party, or any transferee of that right, for more than said two fiscal years shall be deemed to be abandoned and the right to produce it knowingly and intentionally waived and relinquished. No Party or other person or entity shall have the right to produce such abandoned carryover which shall serve to provide protection against over production of Basin water. Further, the Parties hereto hereby waive and relinquish any right they might assert to produce return flows emanating from state project water percolated into the Basin on their account through the Recharge Facilities referred to below.

3. MWA will employ its best efforts to construct at its sole cost, and then to own, maintain and operate recharge facilities ("the Recharge Facilities" hereinafter) on that land leased by BDV described and depicted on Exhibit C hereto. Such facilities are to include pipeline and ancillary structures and equipment necessary to connect those Recharge Facilities to MWA's Morongo Pipeline, all as described in "Bighorn Desert View Water Agency (BDVWA) Mitigated Negative Declaration for Water Infrastructure Restoration Program (WIRP): Ames/Reche Groundwater Storage and Recovery Program; and Pipeline Installation/ Replacement Program and the Ames/Reche Groundwater Management Plan." MWA must comply with all the Mitigation Monitoring Provisions of the Mitigated Negative Declaration, all

stipulations placed on the project's constructions, operations and maintenance activities under permits obtained from United States Fish and Wildlife Service, California Fish and Game, Army Corps of Engineers and other permits identified or obtained as part of the project. The Recharge Facilities are designed for a capacity of approximately 1,500 acre feet per year. MWA shall complete the Recharge Facilities so that those facilities are fully operative no later than December 1, 2012. If the Recharge Facilities are not fully operative on or before December 1, 2012, any Party hereto may terminate the Agreement by written notice provided to each Party hereto on or before February 1, 2013. In light of the Parties' extensive time and effort to formulate this Agreement and to complete regulatory approvals for and completion of the Recharge Facilities, the Parties shall attempt in good faith to agree to a new date if construction of the Recharge Facilities is substantially complete but the facilities are not fully operative by December 1, 2012. Each party hereto agrees to support the completion of the Recharge Facilities and not to impede in any way the implementation of the recharge process through the completion and operation of the Recharge Facilities.

4. Subject to the provisions of paragraph 6 and 8 hereof, BDV, W-1, W-4 and Hi-Desert may purchase state project water from MWA to be percolated into the Basin at the Recharge Facilities and later withdrawn from the Basin by the purchasing entity. MWA shall maintain storage accounts reflecting the amount of water in storage in the Basin by each other Party due to state project water percolated in the Basin on its behalf by MWA. Amounts withdrawn above a Party's Annual Baseline Amount must be based on water then credited in that Party's storage account. State project water purchases are not subject to the maximum two year carryover imposed on the production of Annual Baseline Amounts. No Party shall produce water from the Basin not based upon either the Party's available Annual Baseline Amount or water present in its storage account except pursuant to an order of the Court obtained in accordance with the procedure referred to below, except pursuant to adjustment of the Annual Baseline Amounts in accordance with paragraph 10 hereof. No person or entity not a Party to this Agreement shall store or be allowed to store water in the Basin.

A Party may by written motion seek an order of the Court which provides that it may produce water from the Basin in excess of water based upon its Annual Baseline Amount, carryover rights or stored water in its account provided that the following criteria are met:

A. The hearing of the motion must be upon at least 90 days' written notice provided to the other Parties hereto; and

B. At a minimum, the moving Party shall provide substantial evidence demonstrating that it has exhausted all reasonably available means to meet its demands based on water rights allocated hereunder, including, but not limited to, seeking in writing to purchase or lease other Parties' production rights at reasonable prices.

5. Subject to the provisions of paragraph 6 and 8 hereof, MWA may percolate state project water into the Basin for its own account for subsequent sale, production and use in any location within MWA's physical boundaries so long as such activity does not substantially impair or inhibit any other Party's use of the Basin as a source of water for its residents and businesses.

6. Five percent (5%) of all state project water percolated into the Basin at the Recharge Facilities pursuant to orders from and for the banked credit of Hi-Desert, W-1 or W-4 shall be credited to the BDV storage account in consideration of various efforts and expenses undertaken by BDV in connection with this Agreement and the use of the site leased by BDV for the Recharge Facilities without regard to which Party hereto other than BDV has purchased or owns the right to such water when so percolated. The Parties also recognize that BDV production results in return flows to the Basin to a degree substantially greater than the other Parties. For example, if MWA chooses to sell the water in storage to meet its IDM contractual obligations, MWA will charge the buyer only for the water credited to the buyers account (95% of original water stored) with the balance credited to the BDV storage account. If a buyer requests transfer of water stored by MWA into buyers account, MWA will charge the buyer for the entire amount (100% of original water stored). All charges will be at the then current pricing policy of the MWA Board.

7. Water production rights as specified herein may be transferred from any Party hereto to any other Party hereto permanently or for any delineated period of time. The execution of this Agreement does not constitute a transfer of any water right from one party to another. A transfer of rights carried over by a Party as provided in paragraph 2 hereof shall not extend the two year period in which those rights must be exercised.

8. MWA shall offer water available for storage and later extraction through the Recharge Facilities to the other four Parties, Bighorn Desert View, Hi-Desert Water District and the County of San Bernardino W-1 and W-4, hereto whenever such water is made available to MWA from time to time in accordance with the policies and agreements concerning water allocation adopted by MWA as may be amended from time to time.

9. MWA shall administer a monitoring program to ensure protection of the Basin as a water supply and storage facility for the Parties hereto and their end users. The monitoring program will utilize the wells identified in Exhibit C hereto at a minimum. At MWA's direction, additional wells may be added to or removed from the program to provide a more accurate depiction of the state of the Basin as to maintenance of supplies and water quality. In accordance with schedules and protocols reasonably satisfactory to and approved in writing by the other Parties' general managers, the participants will take groundwater level measurement and samples for quality testing. BDV, W-1, W-4 and Hi-Desert agree to provide to MWA each year, no later than July 10, for the immediately prior 12 months (July 1 – June 30), the water level and water quality laboratory analysis collected during the prior year in accordance with the approved monitoring program.

10. BDV, W-1, W-4 and Hi-Desert agree to provide to MWA each year no later than July 10, the meter readings, electrical records and any available data reflecting the production of water from the Basin from all of the entities' wells for the immediately prior 12 months (July 1 - June 30). On or before the following September 1, MWA shall provide to the other Parties a report which compiles all water production, water quality and Basin well elevation data for the immediately previous fiscal year (June 30 - July 1). Every five years, the MWA report shall make recommendations on the Parties' ability to produce their Annual Baseline Amounts commencing in the following current fiscal year and any other recommendations for actions which MWA believes are required to protect the Basin water supply based on the Ames/Reche

Groundwater Management Plan. To ensure maintenance of Basin elevations at acceptable levels and still allow withdrawals and utilization of basin resources, and with the unanimous agreement of the general managers of BDV, W-1, W-4 and Hi-Desert, the Annual Baseline Amount for each such Party may be reduced or increased by the same percentage for an annual or other specified period. The first determination on such potential reduction or increase shall occur within 90 days of MWA issuing its first report required hereunder. Records of any changes to Parties' Annual Baseline Amounts made pursuant to this paragraph shall be made and maintained by MWA, and included in each annual report required hereunder, yet shall not constitute an amendment to this Agreement or the Amended and Restated Judgment, and shall not require approval by or notification to the Court.

11. Each Party shall indemnify, hold harmless and assume the defense of the other Parties, their officers, agents, employees, and elective boards, and that Party shall pay all court costs and reasonable attorneys fees relating thereto, in any action, with respect to a claim, loss, damage or injury, asserted by a third Party against any Party entitled to indemnification under this Agreement, and arising out of a negligent act, error or omission, or willful misconduct, of an employee or agent of the Party whose actions under this Judgment gave rise to such third Party claim.

12. Any notice, tender or delivery to be given hereunder by any Party to another Party or Parties shall be effected by personal delivery in writing or by registered or certified mail, postage prepaid, return receipt requested, and shall be deemed communicated as of mailing or in case of personal delivery, as of actual receipt. Mailed notices shall be addressed as set forth below, but each Party may change its address by written notice in accordance with this paragraph 12.

To: Hi-Desert Water District
55439 29 Palms Hwy.
Yucca Valley, CA 92284
Attention: General Manager

To: Bighorn-Desert View Water Agency
622 S. Jemez Trail
Yucca Valley, CA 92284
Attention: General Manager

To: County of San Bernardino Special District
County Service Area No. 70
12402 Industrial Blvd., Building D, Suite 6
Victorville, CA
Attention: General Manager

To: Mojave Water Agency
13846 Conference Center Drive
Apple Valley, CA 92307
Attention: General Manager

13. Full jurisdiction, power and authority shall be retained and reserved by the Court for the purpose of enabling the Court, upon application of any Party hereto by motion and upon at least thirty (30) days notice thereof, after hearing thereon, to make such further or supplemental orders or directions as may be necessary or appropriate for the construction, enforcement or implementation of this Agreement, and the Amended and Restated Judgment entered based on this Agreement, including independent review of any decision presented to the General Managers of BDV, W-1, W-4, Hi-Desert and MWA under paragraph 10 of this Agreement which is not unanimously approved. A responding and/or defending Party who is determined to be a prevailing Party in any such hearing shall be entitled to recover as costs upon the conclusion of such hearing all attorneys fees or other costs actually incurred in connection with resolving the dispute by the making of such motion and the hearing thereon.

14. If a dispute arises regarding breach or enforcement of the provisions of this Agreement, a responding and/or defending Party who is determined to be a prevailing Party therein shall be entitled to recover all attorneys fees or other costs actually incurred in connection with resolving the dispute, but only to the extent such resolution is achieved by an order or decision of a court of competent jurisdiction.

15. This is an entire Agreement and supersedes all prior agreements oral or written between any of the Parties, and their agents, on the same subject matter, and cannot be amended unless in writing, with specific reference hereto by the Parties authorized to be charged; provided, however, this Agreement does not supersede nor affect the interpretation of any existing agreement between MWA and any other party hereto regarding the construction, operation and financing of the Morongo Basin Pipeline Project nor does this Agreement in any way alter or obligate current and/or future capacity in the Morongo Basin Pipeline Project. Failure by any Party to enforce any provisions shall not constitute a waiver of said Party's right to enforce subsequent violation of the same or any other provisions. Pending satisfaction of the conditions subsequent in Paragraphs 1, 2 and 3, Hi-Desert shall continue to have the right to produce groundwater as set forth in the Original Agreement and Judgment.

16. This Agreement shall be binding upon and inure to the benefit of the successors and assigns of the Parties.

17. If any section, clause or phrase of this Agreement is for any reason held to be unconstitutional or unlawful, such a decision shall not affect the validity of the remaining portions of this Agreement.

18. The persons executing this Agreement on behalf of the Parties hereto represent and warrant that (i) such Party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said Party and to bind that Party, including its members, agents and assigns, and (iii) by so executing this Agreement, such Party is formally bound to the provisions of this Agreement.

19. This Agreement may be executed in multiple counterparts, each of which shall be considered an original but all of which shall constitute one agreement.

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

BIGHORN DESERT VIEW WATER AGENCY

Dated: January 10, 2012

By: Terry Burkhart
Terry Burkhart, President

By: Marina West
Marina West, General Manager

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

Dated: MAR 1 3 2012

By:

By: Josie Gonzales

COUNTY OF SAN BERNARDINO SPECIAL DISTRICT
COUNTY SERVICE AREA 70 ZONE W-4

Dated: MAR 1 3 2012

By:

By: Josie Gonzales

HI-DESERT WATER DISTRICT

Dated: February 15, 2012

By:
Sarann Graham, President

By: Ed Muzik
Ed Muzik, General Manager

MOJAVE WATER AGENCY

Dated: May 29, 2012

By:

By:

SIGNED AND CERTIFIED THAT A COPY OF
THIS DOCUMENT HAS BEEN DELIVERED
TO THE CHAIRMAN OF THE BOARD
LAURA H. WELCH
Clerk of the Board of Supervisors
of the County of San Bernardino

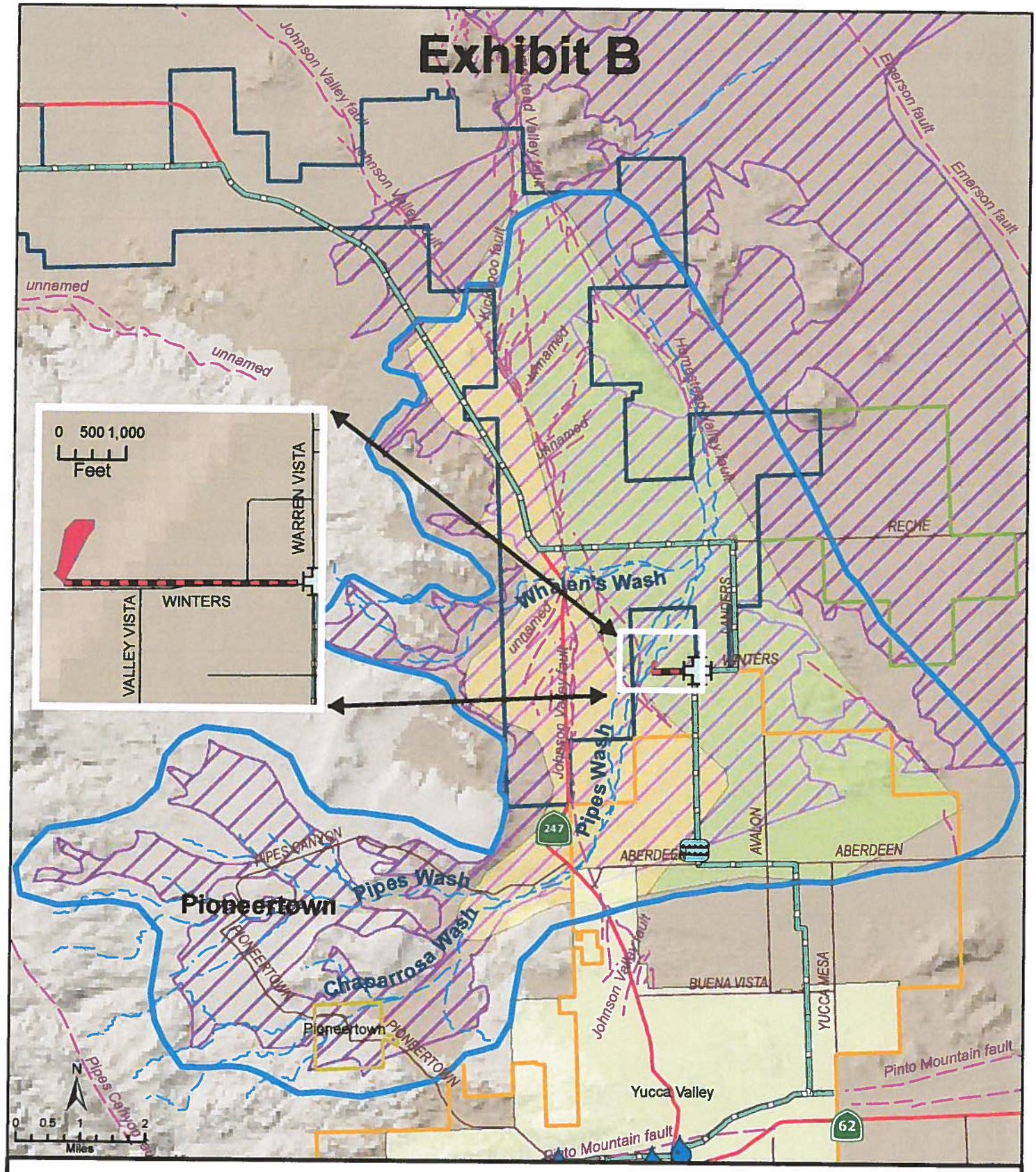
By _____ Deputy

BOARD OF SUPERVISORS
COUNTY SERVICE AREAS

EXHIBIT A

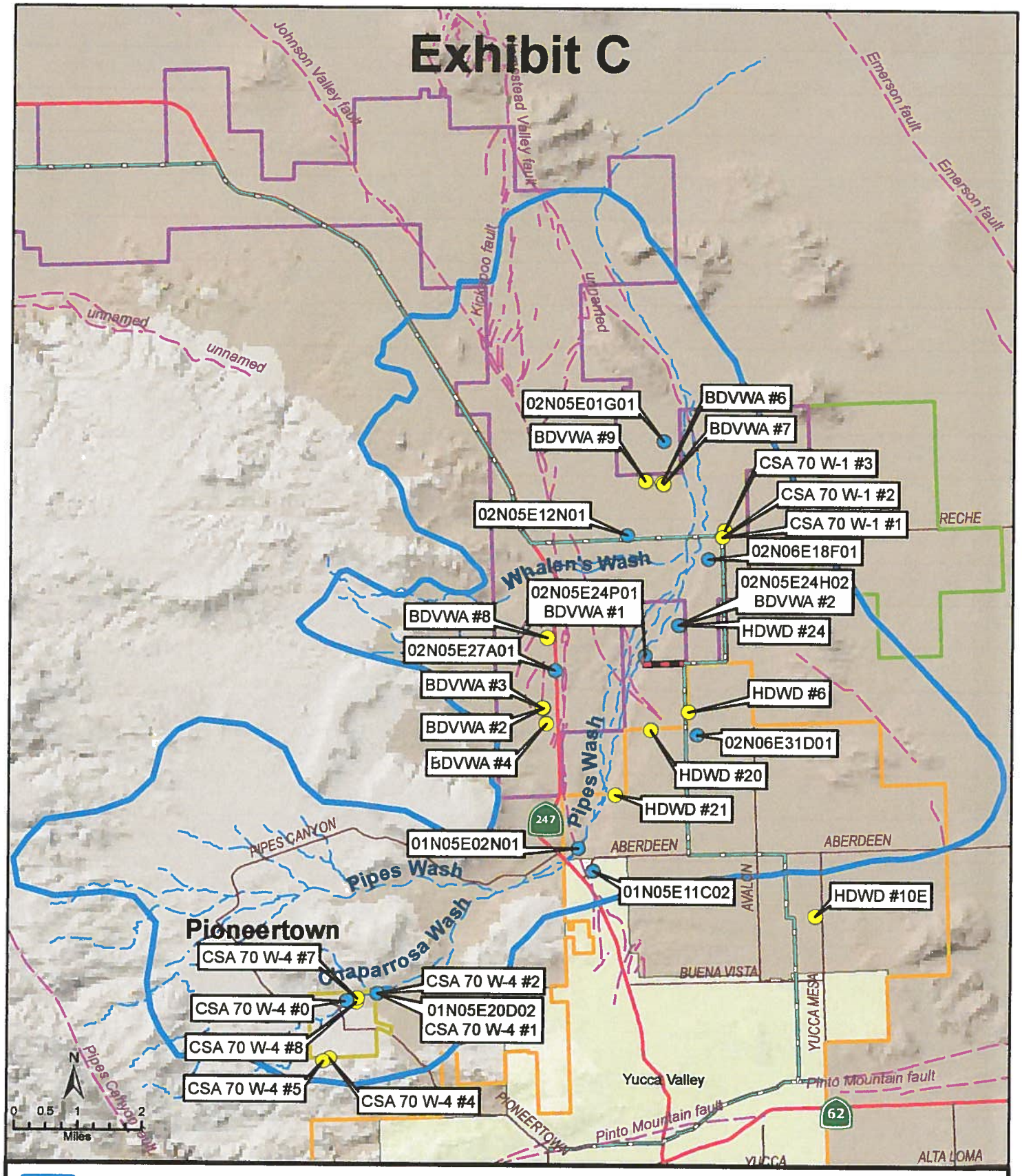
The boundary of the Basin management area subject to this Agreement includes portions of the Ames Valley Groundwater Basin (DWR, 2003), portions of its upper watershed, the areas referred to by the United States Geologic Survey as the Pipes and Reche subbasins (as defined by Stamos et al., 2004), along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

Exhibit B



- Pipes Groundwater Subbasin (USGS)
- Reche Groundwater Subbasin (USGS)
- Ames Valley Groundwater Basin (DWR)
- BDVWA Boundary
- HDWD Boundary
- CSA 70 W4
- CSA 70 W1
- Proposed Pipeline
- Proposed Spreading Basin
- Proposed Recharge Management Area
- Faults (CDMG & Todd 2007)
- MWA Pipeline
- MWA Warren Vista Reservoir
- MWA Turnout

Exhibit C



- Proposed Recharge Management Area
- BDVWA Boundary
- HDWD Boundary
- CSA 70 W4
- CSA 70 W1
- Proposed Pipeline
- Proposed Spreading Basin
- Faults (CDMG & Todd 2007)
- Drainage (Census 2000)
- MWA Pipeline
- Wells Used for Monitoring
- Production Well

RECEIVED
MOJAVE WATER AGENCY
12 MAY -9 PM 3:25

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

MONITORING PROGRAM PLAN

A. Recitals

i Bighorn Desert View Water Agency is a public entity organized and operating pursuant to the provisions of the Bighorn Desert View Water Agency Law, California Water Code Appendix, Sections 112-1 *et. seq.*

ii Hi-Desert Water District is a County Water District organized and operating pursuant to the provisions of the County Water District Law, California Water Code Sections 30,000 et. seq.

iii Mojave Water Agency is a public entity organized and operating pursuant to the provisions of the Mojave Water Agency Law, California Water Code Appendix Sections 97-1 *et. seq.*

iv County of San Bernardino Service Area No. 70 W-1 Landers is a public entity governed by the San Bernardino County Board of Supervisors pursuant to the provisions of California Government Code Sections 25210 *et. seq.*

v County of San Bernardino Service Area No. 70 W-4 Pioneertown is a public entity governed by the San Bernardino County Board of Supervisors pursuant to the provisions of California Government Code Sections 25210 *et. seq.*

vi The Parties have formed a management area for purposes of this Agreement that is referred to herein as "the Basin." The boundaries of the Basin are generally described in Exhibit A and depicted on Exhibit B hereto. In support of this Agreement are the Ames/Reche Spreading Grounds and Recovery Program and Management Agreement and the BDV Ames/Reche Groundwater Management Plan which provide a basis for long-term management of local groundwater resources.

vii The purposes of this Agreement are to establish the monitoring program and participant responsibility for the monitoring program which is a mechanism for the management, water supply reliability and protection of the Basin.

B. Agreement

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

Production Wells

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

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

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

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

MONITORING PROGRAM PLAN

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

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

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

MONITORING PROGRAM PLAN

Monitoring Wells

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

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

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

MONITORING PROGRAM PLAN

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

To: Hi-Desert Water District
55439 29 Palms Hwy.
Yucca Valley, CA 92284
Attention: Ed Muzik, General Manager

To: Bighorn-Desert View Water Agency
622 S. Jemez Trail
Yucca Valley, CA 92284
Attention: Marina West, General Manager

To: County of San Bernardino Special District
County Service Area No. 70
12402 Industrial Blvd., Building D, Suite 6
Victorville, CA 92395
Attention: Jeffrey Rigney, Director Special Districts Department

To: Mojave Water Agency
13846 Conference Center Drive
Apple Valley, CA 92307
Attention: Kirby Brill, General Manager

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

BIGHORN-DESERT VIEW WATER AGENCY

Dated: January 10, 2012 By: Marina West

By: Marina Dee West, General Manager

AMES/RECHE GROUNDWATER STORAGE AND RECOVERY PROGRAM AND MANAGEMENT AGREEMENT

MONITORING PROGRAM PLAN

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

Dated: 5/3/2012 By: _____

By: Jeffrey O. Rigney, Director

COUNTY OF SAN BERNARDINO SPECIAL DISTRICT
COUNTY SERVICE AREA 70 IMPROVEMENT ZONE
W-4

Dated: 5/3/2012 By: _____

By: Jeffrey O. Rigney, Director

HI-DESERT WATER DISTRICT

Dated: 2/20/2012 By: _____

By: Ed Muzik

MOJAVE WATER AGENCY

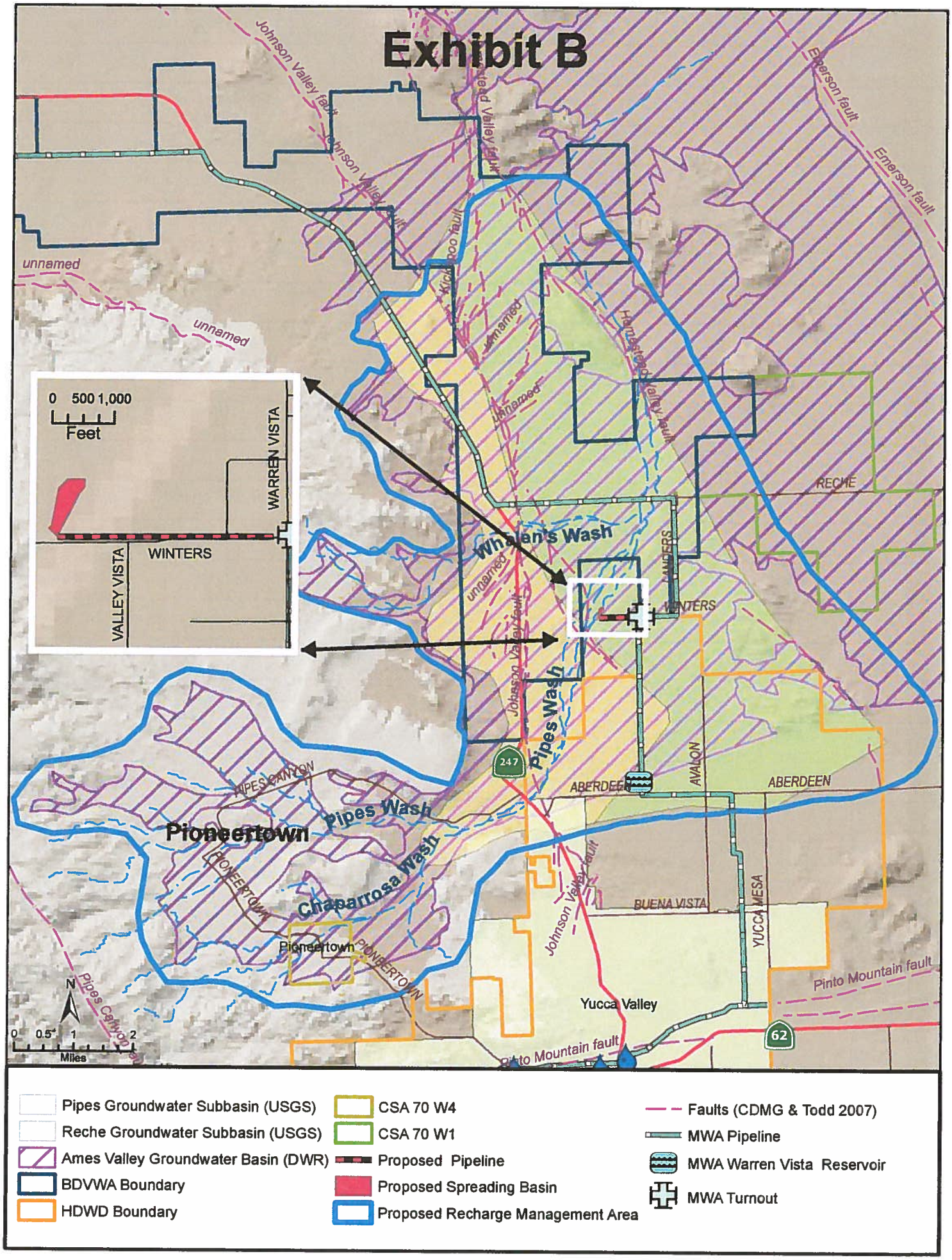
Dated: May 29, 2012 By: _____

By: _____

EXHIBIT A

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

Exhibit B



Johnson Valley fault
Johnson Valley fault
Homestead Valley fault
Emerson fault
Emerson fault
Kickapoo fault
unnamed
unnamed
unnamed
unnamed
unnamed
Homestead Valley fault
0 500 1,000
Feet
WARREN VISTA
WINTERS
VALLEY VISTA
RECHE
Whalen's Wash
LANDERS
WINTERS
Johnson Valley fault
Pipes Wash
247
ABERDEEN
AVALON
ABERDEEN
PIPES CANYON
Pioneertown
Pipes Wash
PIONEERTOWN
Chaparrosa Wash
Pioneertown
PIONEERTOWN
Johnson Valley fault
BUENA VISTA
YUCCA MESA
Pinto Mountain fault
Yucca Valley
62
Pinto Mountain fault
Pipes Canyon
N
0 0.5 1 2
Miles
Pipes Groundwater Subbasin (USGS)
Reche Groundwater Subbasin (USGS)
Ames Valley Groundwater Basin (DWR)
BDVWA Boundary
HDWD Boundary
CSA 70 W4
CSA 70 W1
Proposed Pipeline
Proposed Spreading Basin
Proposed Recharge Management Area
Faults (CDMG & Todd 2007)
MWA Pipeline
MWA Warren Vista Reservoir
MWA Turnout

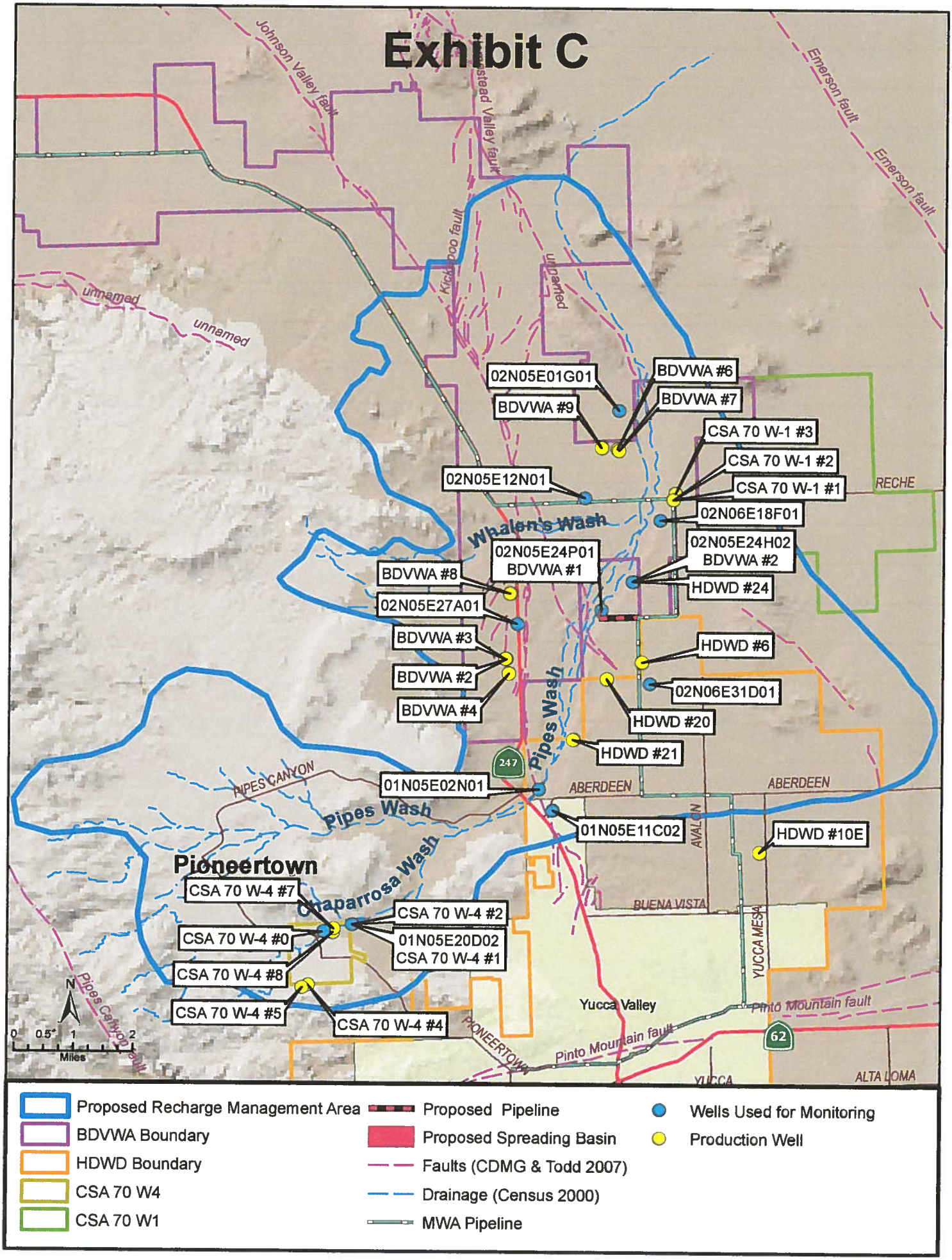


Exhibit C
Johnson Valley fault
Homestead Valley fault
Emerson fault
Emerson fault
Kickapoo fault
unnamed
unnamed
unnamed
02N05E01G01
BDVWA #6
BDVWA #7
BDVWA #9
CSA 70 W-1 #3
CSA 70 W-1 #2
CSA 70 W-1 #1
02N05E12N01
RECHE
02N06E18F01
Whalen's Wash
02N05E24P01
BDVWA #1
02N05E24H02
BDVWA #2
HDWD #24
BDVWA #8
02N05E27A01
BDVWA #3
BDVWA #2
BDVWA #4
HDWD #6
02N06E31D01
HDWD #20
HDWD #21
Pipes Wash
247
PIPES CANYON
01N05E02N01
ABERDEEN
ABERDEEN
Pipes Wash
01N05E11C02
AVALON
HDWD #10E
Pioneertown
CSA 70 W-4 #7
Chaparrosa Wash
CSA 70 W-4 #2
BUENA VISTA
CSA 70 W-4 #0
01N05E20D02
CSA 70 W-4 #1
YUCCA MESA
CSA 70 W-4 #8
Yucca Valley
Pinto Mountain fault
CSA 70 W-4 #5
CSA 70 W-4 #4
PIONEERTOWN
Pinto Mountain fault
62
YUCCA
ALTA LOMA
Pipes Canyon fault
N
0 0.5 1 2
Miles
Proposed Recharge Management Area
BDVWA Boundary
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CSA 70 W1
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Proposed Spreading Basin
Faults (CDMG & Todd 2007)
Drainage (Census 2000)
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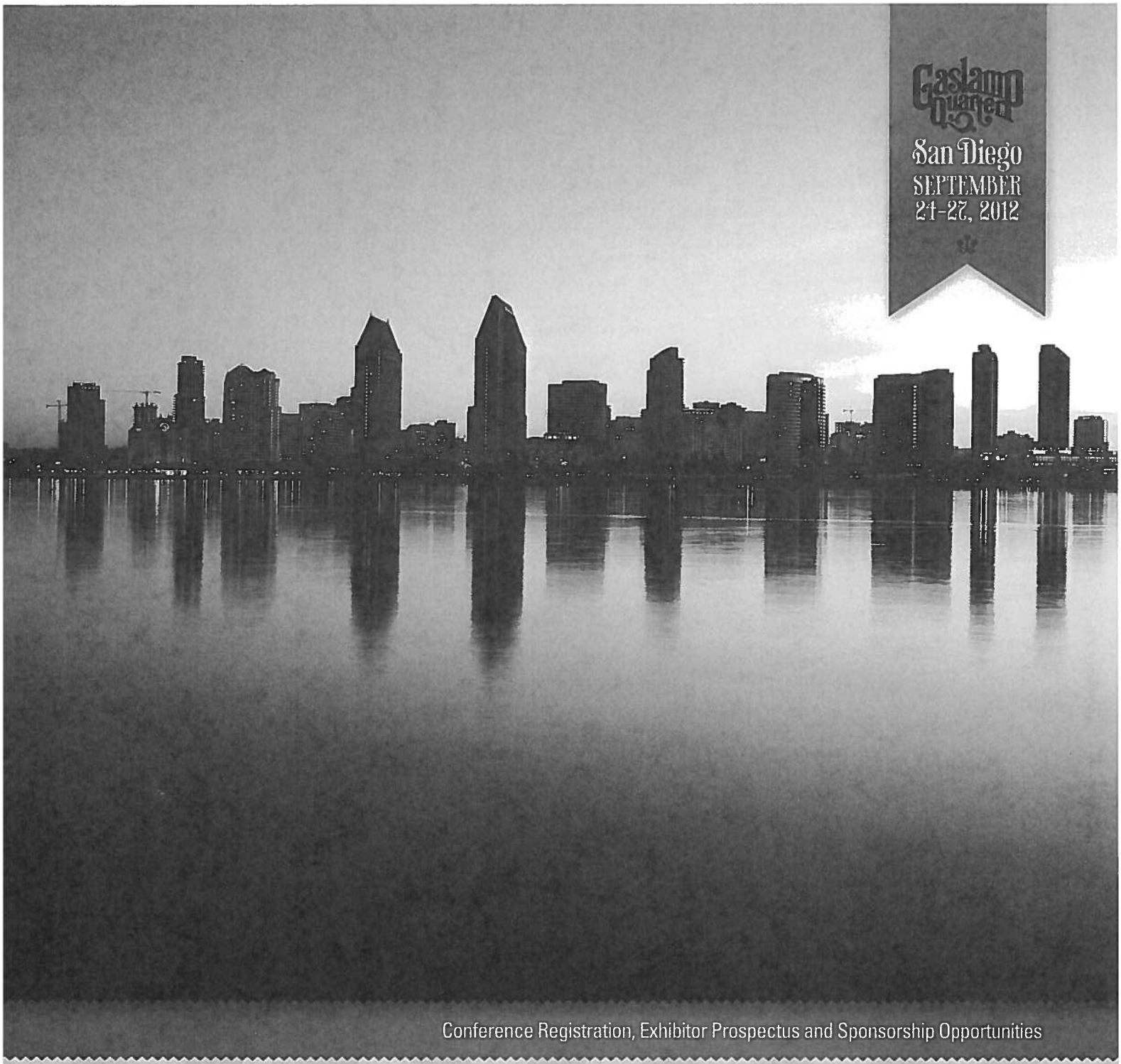
Wells Used for Monitoring
Production Well



Conference Registration, Exhibitor Prospectus and Sponsorship Opportunities

2012 CSDA Annual Conference & Exhibitor Showcase

The leadership conference for special districts

California Special Districts Association

Tuesday, September 25

7:30 a.m. – 3:00 p.m.	**Exhibit Hall Open**
7:30 – 8:30 a.m.	**Coffee with Exhibitors (Raffle)**
9:00 – 10:45 a.m.	**Continental Breakfast and Opening Keynote Presentation: J.R. Martinez** "Plug in to your Potential: Spark Endless Possibilities through Goal-Setting for Yourself and Your District"
11:00 a.m. – 12:15 p.m.	**Breakout Sessions** • The Cost of Poor Benefits Plan Design & Some Win-Win Fixes, *Chang, Ruthenberg & Long PC* • What's New About LAFCo, *CALAFCO* • Got Work? When Do You Have to Pay for it Under the FLSA?, *Nossaman LLP (CIP)* • New Developments: The Brown Act and Public Records Act, *Liebert Cassidy Whitmore (CIP)* • Serving the Public Through Best Board Practices, *BHI Management Consulting (CIP)* • Measure WW: Lessons in Presenting Successful Ballot Measures, *Communication Advantage*
12:15 – 1:30 p.m.	**Lunch on Your Own (exhibit hall open)**
1:30 – 3:00 p.m.	**Exhibitor Showcase Finale – Dessert/Grand Prizes**
3:15 – 4:30 p.m.	**Super Session: Barbara Sanfilippo,** "Lead in High Definition – Engage Staff, Inspire Leaders, Dream Big!"

Tuesday | 9:00 – 10:45 a.m.

J.R. Martinez

Plug in to your Potential: Spark Endless Possibilities through Goal-Setting for Yourself and Your District

2011 turned out to be a banner year for former "All My Children" star J.R. Martinez. Not only did he and his dance partner Karina Smirnoff take ABC's "Dancing With The Stars" season 13 coveted mirror ball trophy, he was also named the 2012 Tournament of Roses Grand Marshal. He was on the November 7 cover of *People Magazine*, featured in the Sexiest Man Alive issue and was one of their 25 Most Intriguing People of the year. CSDA is pleased to have him at this year's conference to inspire and motivate attendees to reach their potential personally and professionally.

Tuesday | 3:15 – 4:30 p.m.

Barbara Sanfilippo

Lead in High Definition – Engage Staff, Inspire Leaders, Dream Big!

Despite the sluggish economy, lean staffing and challenging environment, the good news is we can turn anxiety into action and pessimism into passion--if we focus on what we can control. In this idea-packed and entertaining program, Barb will share proven and fun ideas to engage employees, improve service, raise performance, be an inspirational coach, and, most of all, help you and your staff embrace a success mindset regardless of circumstances. In this energizing and interactive session you'll leave inspired and armed with proven ideas to encourage employees.

A Night of Baseball, Networking, Food & Fun!

5:30 – 7:00 p.m.
Tailgate Party with the Exhibitors at Petco Park

7:00 p.m.
Padres VS Dodgers

Join our exhibitors in a unique event at the ballpark! This event begins with a tailgate party reception at the ballpark and then you'll watch the Padres take on the Dodgers from atop the Western Metal Rooftop Bleachers, an area reserved exclusively for CSDA attendees. Your all-inclusive ticket includes: entry into the game, a pre-game buffet, ballpark snacks, and hosted beverage service (soda & draft beer) for CSDA's cost of only $50 per person. Transporation to/from the conference hotel is also included.

OPTIONAL, LIMITED SPACE, REGISTER EARLY!

Petco Park

Petco Park has become a destination and thanks to the Park in the Park and nearby bars and restaurants, game days are festive. This is a good ballpark to walk around during the game and there are plenty of places to stand. The Padres even provide railings for food and drink on their lower level concourse, which has views of the playing field. San Diego may be a laid back town but the crowd gets into the game, especially when their fiercest rival, the Dodgers, are in town.

Wednesday, September 26

8:30 – 9:00 a.m.
SDRMA Sponsored Full Plated Breakfast ALL ATTENDEES & EXHIBITORS WELCOME

9:00 – 10:45 a.m.
SDRMA General Session, Safety Awards, Keynote
Keynote by Jeff Havens: "Becoming a More Annoying You"

11:00 a.m. – 12:00 p.m.
Breakouts
- Cost Saving Early Retirement Incentives, *PARS*
- The Nurse Will Listen to You Now, *SDRMA/Company Nurse (CIP)*
- There's an App for That!, *SDRMA/TargetSolutions (CIP)*
- AB1234 Required Ethics Training (part 1 of 2, must attend both sessions for credit), *Meyers Nave (CIP)*
- The Alternative Workforce – Independent Contractors, Retired Annuitants, and Volunteers, *Kronick Moskovitz Tiedemann & Girard*
- How to Avoid Disability Discrimination Claims in the Workplace, *Best, Best & Krieger (CIP)*
- CSDA Finance Corporation Board and Annual Meeting

12:00 – 1:30 p.m.
CSDA Annual Awards Luncheon
Join us as we celebrate the best of special districts with awards including: Board President of the Year, General Manager of the Year, the prestigious William Hollingsworth Award of Excellence and more! ALL ATTENDEES WELCOME

1:45 – 2:45 p.m.
Breakouts
- SDRMA – Pool Coverage – Do I Need a Life Vest?, *SDRMA (CIP)*
- Building a Positive Working Relationship with Your Governing Body, *Liebert Cassidy Whitmore (CIP)*
- Assessing Your Organization for Efficiency, *BHI Management Consulting*
- AB1234 Required Ethics Training (part 2), *Meyers Nave*
- Streamlining Payment Processes for Local Government, *Bank of the West*
- Strategic Performance Management: Using Logic Models to Drive Results, *CPS HR Consulting*

3:00 – 4:30 p.m.
Breakouts
- Can I Accept That Gift? What you need to know about the updated FPPC Gift Regulations, *Meyers Nave*
- Capital Funding in the Wake of the Great Recession, *CSDA Finance Corporation*
- Rate Rollback: Proposition 218 and Initiative Measures, *Kronick Moskovitz Tiedemann & Girard and Foresthill Public Utility District*
- Revenues – Where's the Fire?! Where's the Water?!, *NBS*
- A-B-CEQA, *Bergman Dacey Goldsmith*
- An Update on ABx1 26 (RDA Dissolution) – Is It Working?, *Lewis, Brisbois, Bisgaard & Smith*

Sponsored by: SDLF SPECIAL DISTRICT LEADERSHIP FOUNDATION

5:30 – 7:30 p.m.

Taste of the City Reception

From San Diego's "Little Italy" to fresh seafood to the influence of the Mexican culture on San Diego's cuisine, join us for an evening of food tasting inspired by the city of San Diego.

Attendees at this reception will have the opportunity to participate in the Special District Leadership Foundation (SDLF) silent auction to raise funds for scholarships for the Special District Leadership Academy programs. A special wine raffle will also be held at 7:00 p.m. Be sure to purchase tickets throughout the conference for the chance to win a deluxe 35 bottle wine cellar fully stocked with 35 bottles of wine…almost a $1,000 value. You must be present to win!

SDLF is an independent, non-profit organization formed to promote good governance and best practices among California's special districts through certification, accreditation and other recognition programs. The SDLF and its activities are supported through the California Special Districts Association and Special District Risk Management Authority.

Sponsored by: SDRMA

9:00 – 10:45 a.m.

Jeff Havens

Becoming a More Annoying You

Full of reverse psychology and Jeff's trademark wit, "Becoming a More Annoying You!" will help improve your professional behavior by "encouraging" you to engage in all kinds of bad workplace behaviors. This is flat out the most hilarious professional etiquette seminar you're ever going to attend, filled with all the takeaways and useful information of a more straightforward presentation and all the entertainment and value of a comedy show. Because improving your district culture doesn't have to be boring.

Thursday, September 27

8:30 – 10:00 a.m.

Breakout Sessions

- Chapter Roundtable Discussion
- What to Expect When You're Needing Community Support, *SCI Consulting Group*
- Nightmare to Hollywood Ending: Special Districts Getting Out of the Red, *Fox Rothschild, LLP*
- Accommodating Bad Behavior: We're Not Going to Take It! *Liebert Cassidy Whitmore (CIP)*
- What's REALLY Going On! The Latest Update on Prevailing Wage, CMU, and ARRA Requirements, *Contractor Compliance & Monitoring, Inc.*
- 21st Century Privacy Issues in the Workplace, *Liebert Cassidy Whitmore (CIP)*
- Local Investing for Special Districts through County Treasurer-Tax Collectors: What Are the Options & Benefits? *Treasurer-Tax Collector Panel*

10:15 a.m. – 12:00 p.m.

Closing Brunch: Legislative Roundup: Ralph Heim and Kyle Packham
Sacramento's Impact on Your District and the Future of Special Districts

Thursday | 10:15 a.m. – 12:00 p.m.

Ralph Heim

Sacramento's Impact on Your District and the Future of Special Districts

Ralph Heim of Public Policy Advocates and CSDA Advocacy & Public Affairs Director Kyle Packham will present attendees with the most up-to-date information on the outcome of the biggest state budget and legislative issues impacting special districts in 2012. This year included major action on property taxes, public employee pensions, LAFCO and public contracting; Get all the latest legislative results and what it means for special districts going forward.

*** Chapter of the Year Award Presentation**

CSDA Recognizes the Best Among Special Districts

Do you have a board member, staff member, local chapter or program that you feel deserves recognition?

Each year, CSDA presents various awards during the CSDA Annual Conference and Exhibitor Showcase. There are a number of different categories. Please consider outstanding individuals within your districts for individual awards. Chapter awards and district awards are also open for nominations.

Visit the Awards section of our conference website at conference.csda.net for more information.

"The annual conference always gives me something I can use in my role as a board member."

Michael Seaman, Fulton-El Camino RPD

Questions? If you have any questions regarding the awards or the awards process, please contact Charlotte Lowe, executive assistant, at the CSDA office toll-free at 877.924.2732 or by email at charlottel@csda.net. DEADLINE for submissions is FRIDAY, AUGUST 24, 2012. All applicants will be notified prior to the Annual Conference who the winner is. Winners will be awarded at the CSDA Annual Conference & Exhibitor Showcase in San Diego during the Awards Luncheon on Wednesday, September 26.

ATTENDEE REGISTRATION FORM

2012 CSOA Annual Conference and Exhibitor Showcase
San Diego, California

(Please print) All future correspondence will be sent to the key contact.
One form per attendee.

Three Ways to Register

1. ONLINE by visiting the CSDA Annual Conference website at conference.csda.net
2. FAX your registration form to 916-442-7889. All faxed forms must include payment.
3. MAIL CSDA, 1112 I Street, Suite 200, Sacramento, CA 95814, please include registration form along with payment. Check should be made payable to: California Special Districts Association.

Who qualifies for member rates?

All California Special Districts Association and Special District Risk Management Authority members. Contact the CSDA office toll-free 877-924-2732 to find out if you are already a member. It's not too late to become a CSDA member. Simply contact Cathrine Lemaire at cathrinel@csda.net or call toll-free at 877-924-2732.

Registration fees include:

- President's Reception with the Exhibitors Monday evening
- Keynote Sessions and Super Session
- Exhibitor Showcase Dessert on Tuesday
- Exhibitor Showcase on Monday and Tuesday
- SDRMA Full Plated Breakfast on Wednesday
- Awards Luncheon on Wednesday
- All Breakout Sessions on Tuesday, Wednesday, and Thursday
- SDLF "Taste of the City" Reception
- Closing Brunch on Thursday

Name:	Title:	
District:		
Address:		
City:	State:	Zip:
Phone:	Fax:	
Email:	Website:	
Member status: ☐ Member ☐ Non-member	☐ Vegetarian ☐ Any Special Needs:	

Conference Registration Fees	Early Bird (on or before Aug. 17)	Regular (after Aug. 17)	SUBTOTAL
☐ CSDA Member - Full Conference	$525.00	$550.00	
☐ Non-member - Full Conference	$685.00	$710.00	
☐ Guest - Full Conference (Cannot be from a district) ☐ Vegetarian	$250.00	$300.00	
☐ CSDA Member - One-day registration ☐ Tuesday ☐ Wednesday ☐ Thursday	$250.00 each day	$275.00 each day	
☐ Non-member - One-day registration ☐ Tuesday ☐ Wednesday ☐ Thursday	$410.00 each day	$435.00 each day	

Separate Registration Fees	Member	Non-member	SUBTOTAL
☐ Pre-Conference Workshop: SDLA Module 1: Governance Foundations - Sept. 24	$225.00	$375.00	
☐ Pre-Conference Workshop: Organizational Assessessment & Strategic Planning - Sept. 24	$225.00	$375.00	
☐ CSDA Golf Tournament - Sept. 24	$125.00		
☐ Richard A. Reynolds Groundwater Desalination Facility Tour - Sept. 24	$ 10.00 (includes transportation) (limited seating)		
☐ Tailgate Party with the Exhibitors/Padres vs. Dodgers Game - Sept. 25	$ 50.00 (includes game, food & drinks) (limited seating)		
☐ CSDA Awards Luncheon (Guests only) - Sept. 26	$ 40.00		
☐ SDLF "Taste of the City" Reception (Guests only) - Sept. 26	$ 50.00		
		TOTAL	

Payment type: ☐ Check ☐ Visa ☐ MasterCard ☐ AMEX ☐ Discover	
Account name:	Account Number:
Expiration date:	Authorized Signature:

SELECT THE BREAKOUT SESSIONS YOU'LL BE ATTENDING.

TUESDAY, SEPTEMBER 25, 2012
11:00 a.m. – 12:15 p.m.
Breakout Sessions

- ☐ The Cost of Poor Benefits Plan Design & Some Win Win Fixes
- ☐ What's New About LAFCo
- ☐ Got Work? When Do You Have to Pay for it Under the FLSA?
- ☐ New Developments: The Brown Act and Public Records Act
- ☐ Serving the Public Through Best Board Practices
- ☐ Measure WW: Lessons in Presenting Successful Ballot Measures

WEDNESDAY, SEPTEMBER 26, 2012
11:00 a.m. – 12:00 p.m.
Breakout Sessions

- ☐ Cost Saving Early Retirement Incentives
- ☐ No Cost Safety Training – 'There's an App for That!'
- ☐ Company Nurse Program – 'The Nurse Will Listen to You Now.'
- ☐ AB1234 Required Ethics Training (part 1)
- ☐ The Alternative Workforce – Independent Contractors, Retired Annuitants, and Volunteers
- ☐ How to Avoid Disability Discrimination Claims in the Workplace

1:45 – 2:45 p.m.
Breakout Sessions

- ☐ SDRMA – Pool Coverage – 'Do I Need a Life Vest?' SDRMA
- ☐ Building a Positive Working Relationship with Your Governing Body
- ☐ Assessing Your Organization for Efficiency
- ☐ AB1234 Required Ethics Training (part 2)
- ☐ Streamlining Payment Processes for Local Government
- ☐ Strategic Performance Management: Using Logic Models to Drive Results

3:00 – 4:30 p.m.
Breakout Sessions

- ☐ Can I Accept That Gift? What you need to know about the updated FPPC Gift Regulations
- ☐ Capital Funding in the Wake of the Great Recession
- ☐ An Update on ABx1 26 (RDA Dissolution) Is It Working?
- ☐ Rate Rollback: Proposition 218 and Initiative Measures
- ☐ Revenues: Where's the Fire?! Where's the Water?!
- ☐ A-B-CEQA

THURSDAY, SEPTEMBER 27, 2012
8:30 – 10:00 a.m.
Breakout Sessions

- ☐ Chapter Roundtable Discussion
- ☐ What to Expect When You're Needing Community Support
- ☐ Nightmare to Hollywood Ending: Special Districts Getting Out of the Red
- ☐ Accommodating Bad Behavior: We're Not Going to Take It!
- ☐ What is REALLY Going On! The Latest Update on Prevailing Wage, CMU, ARRA Requirements
- ☐ 21st Century Privacy Issues in the Workplace
- ☐ Local Investing for Special Districts through County Treasurer-Tax Collectors: What Are the Options & Benefits?

Cancellation/Substitution Policy: Cancellations must be in writing and received by CSDA not later than August 30. All cancellations received by this date will be refunded less a $75 processing fee. There will be no refunds for cancellations made after August 30, 2012. Substitutions are acceptable and must be done in writing no later than September 14, 2012. Please submit any cancellation notice or substitution request to sharonf@csda.net or fax to 916-442-7889 **Consent to Use of Photographic Images:** Registration and attendance at, or participation in, CSDA meetings and other activities constitutes an agreement by the registrant to CSDA's use and distribution (both

RESOLUTION NO. 12R-XX

A RESOLUTION OF THE BIGHORN-DESERT VIEW WATER AGENCY ESTABLISHING A POLICY FOR MANDATORY TRAINING FOR BOARD MEMBERS

WHEREAS, the Bighorn-Desert View Water Agency ("Agency") Board of Directors of the Agency ("Board") acknowledges Ethics Training, in compliance with AB1234, to be mandatory; and

WHEREAS, from time to time the Board of Directors may impose certain training courses so as to conform to a "best practice" in order to minimize Agency exposure to liability; and

WHEREAS, the Board of Directors desires to adopt a policy outlining training for which Board participation is mandatory, whether or not it is imposed by law.

NOW, Therefore, Be It Resolved By the Board Of Directors of the Bighorn-Desert View Water Agency as follows:

A. Ethics Training (AB 1234)

1. Requirement

   a) Service on or After 2007 - Each local agency official who commences service with the Agency on or after January 1, 2007, must receive training in ethics laws no later than one year from the first day of service with the Agency. Thereafter, each local agency official must receive such training at least one every two years.

2. Application

   a) Local Agency Official as used in Section A.1 of this Resolution, the term "local agency official' means the following:

      (i) All Directors; and

      (ii) All executive staff of the Agency.

   b) Ethics Laws as used in Section A.1 of this Resolution, the phrase "ethics laws" includes, but is not limited to, the following:

      (i) Laws relating to personal financial gain by public servants, including, but not limited to, laws prohibiting bribery and conflict of interest laws;

      (ii) Laws relating to claiming prerequisites of office, including, but not limited to, gift and travel restrictions, prohibitions against the use of public resources for personal or purposes, prohibitions against gifts of public funds, mass mailing

restrictions, and prohibitions against acceptance of free or discounted transportation by transportation companies;

(iii) Government transparency laws, including but not limited to, financial interest disclosure requirements and open government laws; and

(iv) Laws relating to fair processes, including, but not limited to, common law bias prohibitions, due process requirements, incompatible offices, competitive bidding requirements for public contracts, and disqualification for participating in decisions affecting family members.

3. Agency Responsibilities

a) Records - The Agency shall maintain records indicating the dates that local agency officials satisfied the requirements of Section A of this Resolution and the entity that provided the training. The Agency shall maintain these records for at least five years after local agency officials receive the training. These records are public records subject to disclosure under the California Public Records Act.

b) Notice - The Agency is required to provide information on training available to meet the requirements of Section A of this Resolution to its local agency officials at least once every two years.

B. Sexual Harassment Training (AB1825)

1. Requirement

a) Records the Board of Directors, via Motion No. 12-032 and through this Resolution, hereby requires all Directors to complete sexual harassment training as prescribed by AB 1825.

b) Training is to be completed every two (2) years.

2. Agency Responsibilities

a) Records - The Agency shall maintain records indicating the dates that local agency officials satisfied the requirements of Section B of this Resolution and the entity that provided the training. The Agency shall maintain these records for at least five years after local agency officials receive the training. These records are public records subject to disclosure under the California Public Records Act.

b) Notice - The Agency is required to provide information on training available to meet the requirements of Section B of this Resolution to its local agency officials at least once every two years.

C. Review of Resolution on Annual Basis

Each year the Board may review this Resolution to determine its effectiveness and the necessity for its continued operation. The Agency's General Manager shall report to the Board on the operation of this Resolution, and make any recommendations deemed appropriate concerning this Resolution. Nothing herein shall preclude the Board from taking action on the Resolution at times other than upon conclusion of the annual review.

D. Severability

If any provision of this Resolution or the application thereof to any person or circumstances, is held invalid, such invalidity shall not affect other provisions or applications of this Resolution, which can be given effect without the invalid provision, or application, and to this end, the provisions of this Resolution are declared to be severable.

E. Effective Date

This Resolution shall become effective immediately upon adoption.

F. Rescission

Resolution No. 10R-02 is hereby rescinded in its entirety.

PASSED, APPROVED AND ADOPTED by the Board of Directors of Bighorn-Desert View Water Agency this 28th day of August 2012, by the following roll call vote:

AYES:

NOES:

ABSENT:

By _____
Mike McBride, Board President

Attest:

_____
David Larson, Board Secretary

RESOLUTION NO. 12R-XX

A RESOLUTION OF THE BIGHORN-DESERT VIEW WATER AGENCY ESTABLISHING A POLICY FOR REIMBURSEMENT OF ACTUAL AND NECESSARY EXPENSES FOR BOARD MEMBERS

WHEREAS, pursuant to Government Code section 53232.1, the Bighorn-Desert View Water Agency ("Agency") may pay compensation to each member ("Director") of the Board of Directors of the Agency ("Board") for attendance at certain occurrences only if the Board has adopted, in a public meeting, a written policy specifying the types of occasions that constitute the performance of official duties for which a Director may receive payment; and

WHEREAS, pursuant to Government Code section 53232, if the Agency is to reimburse Directors for actual and necessary expenses incurred in the performance of official duties, then the Board must adopt a written policy, in a public meeting, specifying the types of occurrences that qualify a Director to receive reimbursement of expenses relating to travel, meals, lodging, and other actual and necessary expenses; and

WHEREAS, the Agency adopts this Policy For Compensation For Performance of Official Duties and Reimbursement of Actual and Necessary Expenses to allow the Agency to pay Directors for attendance at those occasions that constitute the performance of official duties and for reimbursement of their actual and necessary expenses incurred in the performance of official duties; and

WHEREAS, the intent of the Policy is to provide guidance to Directors on the use and expenditure of Agency resources, as well as the standards against which those expenditures will be measured, and to provide guidance to Agency employees on the use and expenditure of Agency resources, as well as the standards against which those expenditures will be measured, except as may otherwise be specifically provided in regard to employees in any applicable Agency employee policies;

NOW, Therefore, Be It Resolved By the Board Of Directors of the Bighorn-Desert View Water Agency as follows:

A. Findings

This Policy provides guidance to elected and appointed officials on the use and expenditure of Agency resources, as well as the standards against which those expenditures will be measured. In addition, this Policy satisfies the requirements of Government Code sections 53232.1 and 53232.2 and supplements the definition of actual and necessary expenses for purposes of state laws relating to permissible uses of public resources. This Policy also

provides guidance to employees of the Agency on the use and expenditure of Agency resources, as well as the standard against which those expenditures will be measured, except as may otherwise be specifically provided in regard to employees in any applicable Agency employee policies.

B. Director Compensation

1. Amount of Per Diem Compensation

Directors shall receive a daily meeting stipend in the amount set by the current Ordinance in force for each day of service rendered as a Director. Such compensation is in addition to any reimbursement for meals, lodging, travel and other actual and necessary expenses consistent with this Policy.

2. "Day of Service" and "Authorized Meeting" Defined

For purposes of determining eligibility for compensation of Directors, the term "day of service" is defined as attendance by a Director, in person, at an Authorized Meeting with one or more other persons for the performance of official duties on behalf of the Agency.

All meetings, that fall under Directors' Compensation List, Categories A or B in the attached Exhibit A, are to be recognized as an "Authorized Meeting". Any other seminar, conference, meeting, or public event is to be recognized as an "Authorized Meeting" only if the Board, in open session at a meeting of the Board, approves that event as an "Authorized Meeting" before the event occurs.

3. Daily Limits

If a Director attends or participates in multiple meetings in a single day, the Director shall be eligible for compensation for only one meeting on that day.

4. Aggregate Limits

The number of days for which a Director receives a daily meeting stipend will not exceed the aggregate limits established by state law and set by the current Ordinance in force or any successor thereto, which provides that compensation shall not exceed ten (10) meetings/days per month.

5. Travel Days

Whenever practical and in keeping with established Board policy stating that whenever a particular educational opportunity exists via Webinars or other online course formats, these be considered first as the preferred method of education for Directors.

Per diem compensation shall include travel days to and from authorized meetings as appropriate. Unless specifically approved by the Board in advance, Directors shall not count travel to meeting within 125 miles of the Agency's office as a reimbursable per diem travel day.

C. Authorized and Unauthorized Expenses

Agency funds, equipment, supplies (including letterhead), titles, and staff time must only be used for authorized Agency business. Expenses incurred in connection with the following types of activities generally constitute authorized expenses, as long as the other requirements of this Policy are met:

1. Communicating with representatives of regional, state and national government on Agency adopted policy positions; and

2. Attending educational seminars designed to improve officials' skill and information levels;

3. Participating in regional, state and national organizations whose activities affect the Agency's interests;

4. Recognizing service to the Agency (for example, thanking a longtime employee with a retirement gift or celebration of nominal value and cost);

5. Attending Agency events;

6. Meetings such as those listed above for which a meeting stipend is expressly authorized under this Policy.

Examples of personal expenses that the Agency will not reimburse include, but are not limited to:

1. The personal portion of any trip;

2. Political or charitable contributions or events;

3. Family expenses, including partner's expenses when accompanying an official on Agency-related business. Family expenses also include expenses of children and pet-related expenses;

4. Entertainment expenses, including theater, movies, sporting events, or other cultural events;

5. Non-mileage personal automobile expenses, including repairs, traffic citations, insurance or gasoline; and

6. Personal losses incurred while on Agency business.

Any questions regarding the propriety of a particular type of expense should be resolved by the approving authority at the Agency ***before*** *the expense is incurred.*

D. Payment of Expenses

To conserve Agency resources and keep expenses within community standards for public officials, expenditures incurred in the performance of official duties should adhere to the following guidelines. In the event that expenses are incurred which exceed these guidelines, the cost borne or reimbursed by the Agency will be limited to the costs that fall within the guidelines.

1. Transportation

a) A request for reimbursement for mileage incurred by a Director is payable by the Agency only if the Director or the Director's driver of the vehicle in which the Director is transported, and for which reimbursement is sought, holds a valid California driver's license during that period in which the claim for reimbursement arises. Reimbursement will not be paid unless the Director or the Director's driver holds a valid California Driver's license. The Director or the Director's driver must satisfy the Agency's automobile liability insurance requirements by completing a California Department of Motor Vehicle form authorizing release of driver information. The form may be obtained through the Board Secretary.

b) The Agency reimbursement rate for mileage by use of a Director's own vehicle shall be calculated on the total miles driven for Agency purposes at the rate specified by the Internal Revenue Service in Publication 463 or any successor publication in effect at the time of vehicle usage. Mileage will be calculated using a standard trip program on the Internet and shall be verified by the Agency staff.

c) Travel to meetings, conferences or seminars outside Agency boundaries where air travel is available may be reimbursable through a mileage rate, should the Director choose to drive the Director's own vehicle; however, the total reimbursable amount for mileage may not exceed the cost of round trip coach airfare.

d) The Agency reimbursement rate for vehicle parking by a Director shall be the actual amount incurred.

2. Lodging

Directors must use government and group rates offered by a provider of lodging services when available. If the lodging is in connection with an accepted conference or organized educational activity, lodging costs must not exceed the maximum group rate published by the conference or activity sponsor, provided that lodging at the group rate is available to the Directors at the time of booking. If a government or group rate is not available, the Agency reimbursement rate for Director lodging shall be the actual amount incurred, not to exceed the rate for comparable lodging.

3. Meals

The Agency reimbursement rate for Director meals shall be the actual amount incurred, including gratuities, excluding alcoholic beverages, up to the standard meal allowance established for Southern California by the Internal Revenue Service in Publication 463 or any successor publication.

4. Other

Agency reimbursement of all other actual and necessary expenses incurred by a Director shall be computed using the applicable Internal Revenue Service rates for reimbursement as established in Publication 463, or any successor publication. All expenses that do not fall within this reimbursement Policy or the Internal Revenue Service reimbursable rates, as provided above, shall be approved by the Board in a public meeting before the expense is incurred.

E. Budget Limits

A pool of funds established through the annual budget process will be available to pay reimbursement of expenses for attendance by Directors at major conferences and seminars, to be identified in the budget as "Directors' Meeting Expense". The intent is that no individual Director receives reimbursement of expenses in excess of one-fifth of the monies established in this pool account, specific circumstances notwithstanding. Such conferences/seminars may include, but are not limited to ACWA, AWAC, CSDA and Special Districts Institute, or other major events or meetings. If insufficient monies exist in the account to pay for those expenses or if request for payment by the Board of Directors is denied, the Director would then be required to pay for those expenses out of his or her own personal funds.

F. Expense Forms

The Agency shall provide expense report forms to be filed by the Directors for reimbursement for actual and necessary expenses incurred on behalf of the Agency in the performance of official duties. The expense reports shall document that expenses meet the Policy for expenditure of public resources. Directors shall submit to the Agency's Accounting Department on said form their expense reports for the calendar month no later than (10) days prior to the next regular Board meeting of the following month, and the reports shall be accompanied by receipts documenting each expense. If the reimbursement requests listed by the Director on said form satisfy the provisions of the Policy set forth herein as relates to Category "A" and Category "B" expenses, then the Agency's General Manager is hereby authorized to approve the reimbursement requests. The Board reserves the right to approve reimbursement of eligible expenses above the budget limit on a case-by–case basis prior to the expense being incurred.

G. Audits of Expense Reports

All expenses are subject to verification that they comply with this Policy.

H. Reports to Board of Directors

Directors shall provide brief reports on meetings attended at the expense of the Agency during the next agendized meeting of Board. Activities shown on the Directors' Compensation List under Category "A" do not require a report. Activities shown on the Directors' Compensation List under Category "B" shall be made orally or in writing, or orally and by reference to any minutes.

I. Compliance with Other Laws

Agency directors, official and employees, as applicable, should keep in mind that some expenditures may be subject to reporting under the Political Reform Act and other laws. All agency expenditures are public records subject to disclosure under the Public Records Act and other laws.

J. Violation of This Policy

Use of public resources or falsifying expense reports in violation of this Policy may result in any of all of the following: 1) Loss of reimbursement privileges, 2) a demand for restitution to the Agency, 3) the Agency's reporting the expenses as income to the elected official to state and federal tax authorities, 4) civil penalties

of up to $1000 per day and three times the value of the resources used, and 5) prosecution for misuse of public resources.

K. Review of Resolution on Annual Basis

Each year the Board may review this Resolution to determine its effectiveness and the necessity for its continued operation. The Agency's General Manager shall report to the Board on the operation of this Resolution, and make any recommendations deemed appropriate concerning this Resolution. Nothing herein shall preclude the Board from taking action on the Resolution at times other than upon conclusion of the annual review.

L. Severability

If any provision of this Resolution or the application thereof to any person or circumstances, is held invalid, such invalidity shall not affect other provisions or applications of this Resolution, which can be given effect without the invalid provision, or application, and to this end, the provisions of this Resolution are declared to be severable.

M. Effective Date

This Resolution shall become effective immediately upon adoption.

N. Rescission

Resolution No. 10R-02 is hereby rescinded in its entirety.

EXHIBIT "A"

POLICY FOR COMPENSATION FOR PERFORMANCE OF OFFICIAL DUTIES AND REIMBURSEMENT OF ACTUAL AND NECESSARY EXPENSES

DIRECTORS' COMPENSATION LIST

The Following Category "A" Meetings Require No Pre-Approval And No Report Is Required Since Minute Action For These Agency Meetings Meets The Reporting Requirement Through AB 1234.

Category "A" Activity/Description	Eligibility
BDVWA Board of Directors Meetings (Regular, Special or Workshop)	All Directors
BDVWA Standing Committee Meetings	Appointed by Board President
BDVWA AD Hoc Committee Meetings	Appointed by Board President
Morongo Basin Pipeline Commission	Appointed by Board President
MWA Technical Advisory Committee	Appointed by Board President
Other Water Districts'/Agencies' Board Meetings and Committee Meetings	Assigned Director (rotates, refer to schedule)

The Following Category "B" Meetings Require No Pre-Approval And A Report Is Required

Category "B" Activity/Description	Eligibility
Meetings with Legislators (State or Federal)	Any Director
AB 1234 - Ethics Training (required by law)	Any Director
AB 1825 – Harassment Training (required by Board of Directors)	Any Director
Integrated Regional Wastewater Management Plan Committee	Assigned by Board President
Mojave Water Agency (MWA) Tours	Any Director
Mojave Water Agency (MWA) Seminars	Any Director
Meetings, hosted by Association of California Water Agencies (ACWA), excluding conferences	Any Director
Meetings of the Alliance for Water Awareness and Conservation (AWAC)	Appointed by Board President
Meetings of the Homestead Valley Community Council (HVCC)	Appointed by Board President

PASSED, APPROVED AND ADOPTED by the Board of Directors of Bighorn-Desert View Water Agency this 28th day of August 2012, by the following roll call vote:

AYES:

NOES:

ABSENT:

By _____
Mike McBride, Board President

Attest:

_____
David Larson, Board Secretary