AGENDA

SOUTHERN NEVADA WATER AUTHORITY

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS

REGULAR MEETING
9:00 A.M. – JANUARY 15, 2015

BOARD CHAMBERS, SOUTHERN NEVADA WATER AUTHORITY
100 CITY PARKWAY, SEVENTH FLOOR, LAS VEGAS, NEVADA
(702) 258-3100

Board of Directors
Mary Beth Scow, Chair
Sam Bateman, Vice Chair
Susan Brager
Bob Coffin
Duncan McCoy
Steve Sisolak
Anita Wood

John J. Entsminger, General Manager

Date Posted: 01/08/15

The Southern Nevada Water Authority makes reasonable efforts to assist and accommodate persons with physical disabilities who desire to attend the meeting. For assistance, call Katie Horn at (702) 870-2011 at least 24 hours prior to the meeting.

THIS MEETING HAS BEEN PROPERLY NOTICED AND POSTED IN THE FOLLOWING LOCATIONS:

City of Boulder City, City Hall
401 California Street
Boulder City, Nevada

City of Henderson, City Hall
240 Water Street
Henderson, Nevada

City of North Las Vegas, City Hall
2250 Las Vegas Boulevard North
North Las Vegas, Nevada

City of Las Vegas, City Hall
495 South Main Street
Las Vegas, Nevada

Clark County Government Center
500 S. Grand Central Parkway
Las Vegas, Nevada

Clark County Water Reclamation District
5857 E. Flamingo Road
Las Vegas, Nevada

Southern Nevada Water Authority
100 City Parkway, Suite 700
Las Vegas, Nevada

Las Vegas Valley Water District
1001 S. Valley View Boulevard
Las Vegas, Nevada

All items on the agenda are for action by the Board of Directors, unless otherwise indicated. Items may be taken out of order. The board may combine two or more agenda items for consideration, and the board may remove an item from the agenda or delay discussions relating to an agenda item at any time.

CALL TO ORDER

COMMENTS BY THE GENERAL PUBLIC

NO ACTION MAY BE TAKEN: This is a period devoted to comments by the general public pertaining to items on this agenda. If you wish to speak to the Board about items within its jurisdiction, but not appearing on this agenda, you must wait until the "Comments by the General Public" period listed at the end of this agenda. Please limit your comments to three minutes or less and refrain from making comments that are repetitious, offensive, or amounting to personal attacks. No action may be taken upon a matter not listed on the posted agenda.

ITEM NO.

1. *For Possible Action:* Approve agenda with the inclusion of tabled and/or reconsidered items, emergency items and/or deletion of items, and approve the minutes of the special meeting of December 10, 2014.

BUSINESS AGENDA

2. *For Possible Action:* Renew the Amended and Restated Interlocal Contract between the Las Vegas Valley Water District and the Authority, authorizing the General Manager of the Water District to serve as General Manager of the Authority, utilizing the staff and resources of the District to manage the affairs of the Authority.

3. *For Possible Action:* Approve two resolutions authorizing the submission of grant proposals to the Bureau of Reclamation WaterSMART: Water and Energy Efficiency Grant Program.

4. *For Possible Action:* Approve and authorize the Chair to sign an amendment to the existing agreement between Montgomery Watson/CH2M Hill and the Authority for lead design engineering services for the Authority's capital improvement program.

5. *For Possible Action:* Approve and authorize the General Manager to execute the renewal of Right-of-Way Grant N-057343 offered by the Bureau of Land Management for a well, hydroplant, and buried irrigation pipeline across federal land near Harbecke Ranch in Spring Valley, Nevada, and pay the 30-year rental fee.

6. *For Information Only:* Receive an update from staff on water resources including, but not limited to, drought conditions in the Colorado River Basin, the results of the implementation of the Authority's Water Resource and Conservation Plans, activities on the Colorado River, the development of in-state water resources, and the status of the third intake project.

COMMENTS BY THE GENERAL PUBLIC

NO ACTION MAY BE TAKEN: At this time, the Board of Directors will hear general comments from the public on matters under the jurisdiction of the Southern Nevada Water Authority. Please limit your comments to three minutes or less and refrain from making comments that are repetitious, offensive, or amounting to personal attacks. No action may be taken upon a matter not listed on the posted agenda.

Visit our website at www.snwa.com/apps/agenda/snwa/index.cfml
for Southern Nevada Water Authority Agenda Postings and Approved Minutes

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
REGULAR MEETING
DECEMBER 10, 2014
MINUTES

CALL TO ORDER	9:03 a.m., SNWA Board Chambers, Southern Nevada Water Authority 100 City Parkway, Seventh Floor, Las Vegas, Nevada
BOARD MEMBERS PRESENT	Mary Beth Scow, Chair Sam Bateman, Vice Chair Susan Brager Bob Coffin Duncan McCoy Anita Wood
BOARD MEMBERS ABSENT	Steve Sisolak
STAFF PRESENT	John Entsminger, Phil Speight, Julie Wilcox, Dave Johnson, Greg Walch, Dave Wright, Marc Jensen
OTHERS PRESENT	Kade Stratton, Piercy Bowler Taylor & Kern

Unless otherwise indicated, all members present voted in the affirmative.

COMMENTS BY THE GENERAL PUBLIC
For complete comments, audio is available online at snwa.com

Ed Uehling, Las Vegas, discussed his concerns with agenda item no. 2, and felt the members of the Integrated Resource Planning Advisory Committee were hand-selected and that the committee process was not transparent.

Paul Moradkhan, Las Vegas Metro Chamber of Commerce and member of the Integrated Resource Planning Advisory Committee, spoke regarding agenda item no. 2. He discussed his support for the IRPAC's Recommendations Report, specifically a new low water level pumping station and the rate modification.

Item 16 was taken out of order

1. ***For Possible Action:*** **Approval of Agenda & Minutes**

FINAL ACTION: A motion was made by Director Brager to approve the meeting's agenda and to consider agenda item no. 16 first, and to approve the meeting minutes of September 18, 2014. The motion was approved.

16. ***For Information Only:*** **Receive an update from staff on water resources including, but not limited to, drought conditions in the Colorado River Basin, the results of the implementation of the Authority's Water Resource and Conservation Plans, activities on the Colorado River, the development of in-state water resources, and the status of the third intake project.**

Marc Jensen, Engineering Director, shared that the tunnel boring machine had completed its tunneling journey and has made contact with the intake structure this morning a few moments before the Board meeting began. He noted a few activities remain including lowering the temporary bulkhead, dewatering the intake structure, disassembling the tunnel boring machine and laying utility pipeline before the project is completed. The Board offered staff their congratulations for their hard work over the past few years on the project.

NO ACTION NECESSARY

2. ***For Possible Action:*** **Conduct a Public Hearing to consider and adopt the recommendations from the Integrated Resource Planning Advisory Committee, including the adoption of a drought protection charge, or take other action as appropriate.**

John Entsminger, General Manager, gave an overview of the Integrated Resource Planning Advisory Committee (IRPAC) process and their resulting recommendations, which included construction of a new low water level pumping station near Lake Mead and a rate increase to support construction of such facility. A copy of his presentation is attached to these minutes.

Chairwoman Scow recognized the IRPAC members in the audience, thanked them for their service and opened the public hearing.

Danny Thompson, AFL-CIO and IRPAC member, discussed the transparency of the IRPAC process and noted his support for the IRPAC's recommendations and rate increase.

Virginia Valentine, Nevada Resort Association and IRPAC member, noted the importance of water supply to the region and state, and expressed her support for the IRPAC's recommendations and rate increase.

Terry Murphy, Strategic Solutions and IRPAC member, noted that Southern Nevada cannot assume the risk of Lake Mead's water elevation falling below 1,000 feet and noted her support for the IRPAC recommendations.

John Restrepo, RCG Economics, NAIOP Board member and IRPAC member, discussed Southern Nevada's economy as it relates to water security and urged Board members to approve the IRPAC's recommendations.

Bobbi Miracle, Commercial Executives Real Estates Services and IRPAC member, commented on the openness of the IRPAC process and the availability of information, and expressed her support of the IRPAC's recommendations.

Ed Uehling, Las Vegas, recognized the importance of accessing water upstream of the Las Vegas Wash, but noted his disappointment of failing to construct a water pumping station at the time of the third intake's construction. He discussed the existing rate structure and how the rate increase will be shared among customer classes and did not support the rate increase.

With no additional persons wishing to speak, Chairwoman Scow closed the meeting. Mr. Entsminger noted that a third water pumping station was initially included as part of the third intake project, but was later deferred to save money during the recession. The decision, Mr. Entsminger noted, proved effective as new pumping technologies allow for a pumping station which will allow pumping at lower lake levels.

Director McCoy expressed his support for the IRPAC's recommendations and noted that the low level water pumping station is necessary for Southern Nevada. He also specifically thanked the Boulder City participants on the IRPAC and explicitly noted their impartiality to the committee process.

Director Brager also noted the committee's impartiality and the process' transparency. She also noted the times that board members were briefed outside of public meetings on issues.

Director Wood discussed how rate increases are never popular and will impact constituents, but recognized the role they play in constructing infrastructure that secures Southern Nevada's water supplies.

Director Coffin noted his support for the rate increase and IRPAC recommendations, and discussed the challenges of funding infrastructure.

Chairwoman Scow noted that approval of the recommendations instills confidence into Southern Nevada's future, particularly through investors.

FINAL ACTION: A motion was made by Vice Chair Bateman to follow staff's recommendation. The motion was approved.

At 10:26 a.m., Chairwoman Scow recessed the meeting for two minutes to allow time for a short break. The meeting resumed at 10:28 a.m.

3. ***For Possible Action:*** **Approve and authorize the General Manager to execute, in substantially the same form, a Memorandum of Understanding among the United States, acting through the Bureau of Reclamation, Central Arizona Water Conservation District, Metropolitan Water District of Southern California, Arizona Department of Water Resources, Colorado River Board of California, Colorado River Commission of Nevada and the Authority for Pilot Drought Response Actions.**

FINAL ACTION: A motion was made by Vice Chair Bateman to follow staff's recommendations. The motion was approved.

4. ***For Possible Action:*** **Approve and authorize the General Manager to sign an agreement between Carollo Engineers, Inc., and the Authority for the "Blending Requirements for Water from Direct Potable Reuse Treatment Facilities" study, and accept funds in an amount not to exceed $111,376 for this research work.**

Director Coffin noted the importance of this type of research work and that it demonstrates the future of water reuse. Dave Johnson, Deputy General Manager of Engineering and Operations, mentioned other cities which utilize this type of water reuse, and discussed the research focus and how the research will be utilized.

FINAL ACTION: A motion was made by Vice Chair Bateman to follow staff's recommendation. The motion was approved.

5. ***For Possible Action:*** **Approve and authorize the General Manager to sign an agreement between the Water Research Foundation and the Authority for the "Simultaneous Removal of Multiple Chemical Contaminants using Biofiltration" study, authorize the Authority to contribute $304,000 in cost-share services as its co-participant portion, and accept funds in an amount not to exceed $350,000.**

FINAL ACTION: A motion was made by Director McCoy to follow staff's recommendation. The motion was approved.

6. ***For Possible Action:*** **Approve and authorize the General Manager to sign an agreement between Hazen and Sawyer, P.C., and the Authority for the "GAC Control of Regulated and Emerging Disinfection Byproducts of Health Concern" study, and accept funds in an amount not to exceed $60,000 for this research work.**

FINAL ACTION: A motion was made by Director Wood to follow staff's recommendation. The motion was approved.

7. ***For Possible Action:*** **Approve and authorize the General Manager to sign a cooperative agreement between the Nevada Division of Forestry and the Authority to conduct inmate conservation camp work detail services for the period from December 10, 2014, through November 30, 2016, for an amount not to exceed $200,000.**

FINAL ACTION: A motion was made by Director Wood to follow staff's recommendation. The motion was approved.

8. ***For Possible Action:*** **Approve and authorize the General Manager to sign a funding contribution agreement between the Nevada Division of Water Resources and the Authority for surface and groundwater data collection services within Nevada to be performed by the U.S. Geological Survey for an amount not to exceed $200,695.**

FINAL ACTION: A motion was made by Director Brager to follow staff's recommendation. The motion was approved.

9. ***For Possible Action:*** **Approve and authorize the General Manager to sign an agreement between Spring Valley Associates, LLC, and the Authority for professional staffing services for the Authority's Northern Resources properties, for an amount not to exceed $975,000 annually for a three year term, with an option to extend for another three year term.**

Director Coffin asked if the Authority had any plans to grow crops besides alfalfa; Mr. Entsminger noted that the Authority had no plans to modify ranching operates in any significant way.

FINAL ACTION: A motion was made by Director Wood to follow staff's recommendation. The motion was approved.

10. ***For Possible Action:*** **Approve and authorize the General Manager to sign an agreement between Quantum Spatial, Inc., and the Authority for digital aerial imagery services for an amount not to exceed $130,000 for the period ending on December 31, 2015.**

FINAL ACTION: A motion was made by Director Wood to follow staff's recommendations. The motion was approved.

11. ***For Possible Action:*** **Approve an agreement, in substantially the same form, retaining Marsh Risk and Insurance Services, the Authority's current insurance broker, and approve an extension of the Builders Risk Insurance and Terrorism Insurance on the Lake Mead Intake No. 3 Project.**

FINAL ACTION: A motion was made by Director McCoy to follow staff's recommendations. The motion was approved.

12. ***For Possible Action:*** **Adopt the 2009 Water Resource Plan for the 2015 calendar year.**

FINAL ACTION: A motion was made by Vice Chair Bateman to follow staff's recommendations. The motion was approved.

13. ***For Possible Action:*** **Adopt the 2013 Water Budget for the 2015 calendar year.**

FINAL ACTION: A motion was made by Vice Chair Bateman to follow staff's recommendations. The motion was approved.

14. ***For Possible Action:*** **Adopt the Annual Operating Plan for the Southern Nevada Water System.**

FINAL ACTION: A motion was made by Vice Chair Bateman to follow staff's recommendations. The motion was approved.

15. ***For Possible Action:*** **Accept the Authority's Comprehensive Annual Financial Report for the period ending June 30, 2014, as presented by the Authority's external auditors, Piercy Bowler Taylor & Kern, and authorize its submission to the Nevada Department of Taxation.**

Kade Stratton of Piercy Bowler Taylor & Kern shared that his firm completed the Authority's audit and gave it an unmodified (formerly known as an unqualified) opinion.

FINAL ACTION: A motion was made by Director Wood to follow staff's recommendations. The motion was approved.

Public Comment

Ed Uehling, Las Vegas, clarified his remarks and noted that he does not oppose accessing water above the Las Vegas Wash. He stated his belief that members of IRPAC were handpicked, and discussed water rates among customer classes including those with fireline meters. He suggested increasing water rates within tiers and a look to Denver's water utility as a model.

Adjournment
There being no further business to come before the board, the meeting adjourned at 10:53 a.m.

APPROVED:

Mary Beth Scow, Chair

John J. Entsminger, General Manager

Copies of all original agenda items and minutes, including all attachments, are on file in the General Manager's office at the Las Vegas Valley Water District, 1001 South Valley View Boulevard, Las Vegas, Nevada.

SOUTHERN NEVADA WATER AUTHORITY

Integrated Resource Planning Advisory Committee

Resource and Facility Recommendations

Background

Since its formation in 1991, the SNWA has actively engaged the public in its decision-making processes through integrated resource planning.

- Integrated Resource Plan Advisory Committee (1994-96)
- Advisory Committee for Groundwater Management (1997-present)
- Water Quality Citizens Advisory Committee (1997-98)
- Las Vegas Wash Coordination Committee (1998-present)
- Drought Citizens Advisory Committee (2003)
- Integrated Water Planning Advisory Committee (2004-05)
- Integrated Resource Planning Advisory Committee (2012-2014)

2

IRPAC – Phase I

In April 2012, the SNWA Board convened an advisory committee to develop recommendations that address the challenges faced by Southern Nevada's water utility managers.

In September 2013, the IRPAC concluded its first phase of the committee process with nine recommendations, which included:

- An open and transparent rate process
- A rate increase (shared among fixed and variable charges) to address a significant increase in annual bond payments
- Policy directives to bank excess revenues for future needs or pay debt faster

3

IRPAC – Phase II

After a short break to allow time to implement its first set of recommendations, the IRPAC began meeting again in 2014 to address facility and resource related topics:

Water resources

Conservation

Facilities

Water quality

Climate change

4

Committee Meetings

- All committee work conducted in public meetings
- Agendas were publicly noticed and posted
- All committee materials are available on SNWA.com for review, including audio recordings
- Recommendations were drafted by the committee at its public meetings
- A neutral facilitator was utilized to coordinate meetings

5

Committee Topics

- Colorado River laws and agreements
- Climate change and Lake Mead elevation projections
- Impacts to Lake Mead as a result of declining lake levels
- Conservation
- Water resources
- Funding
- Groundwater Development Project

6

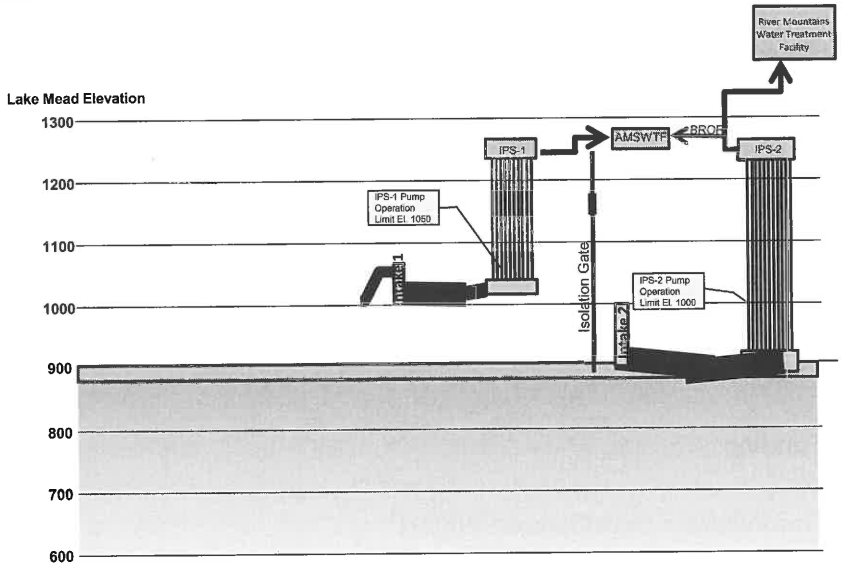
Committee Focus

The IRPAC evaluated the probability of Lake Mead reaching 1,000 feet and its impacts to the SNWA.

- Water quality
- Reduced operating flexibility
- Access to water supplies (access lost at 1,000 feet)
- Additional treatment costs
- New facility costs
- Supplemental resource costs

7

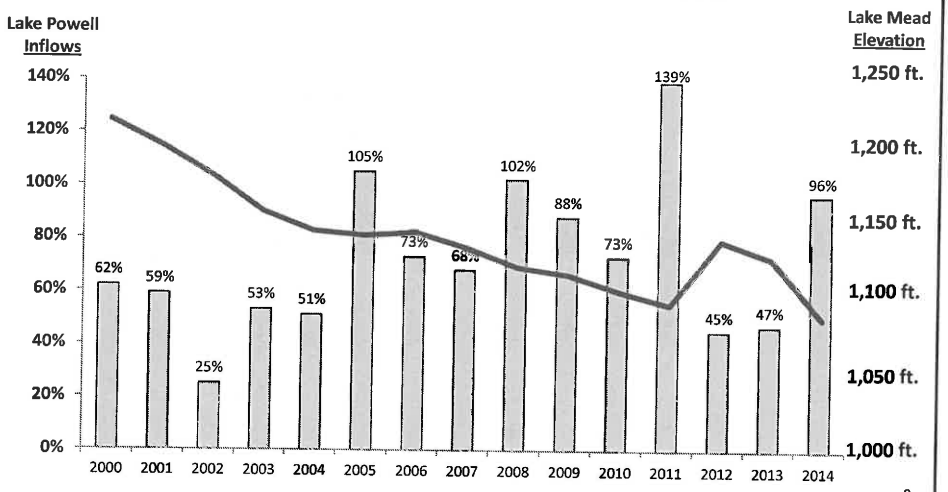
Existing SNWA Intake System



8

Declining Lake Elevations

Beginning in the early 2000s, Colorado River inflows declined. As a result, Lake Mead water elevations fell.



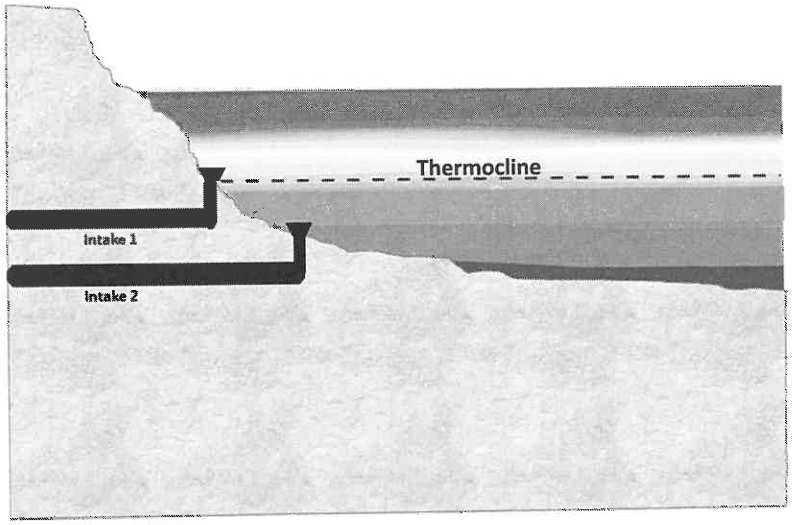
9

Committee Finding

The risk of Lake Mead's elevation falling below 1,000 feet is not acceptable to our community due to the impacts on water delivery and resource availability.

10

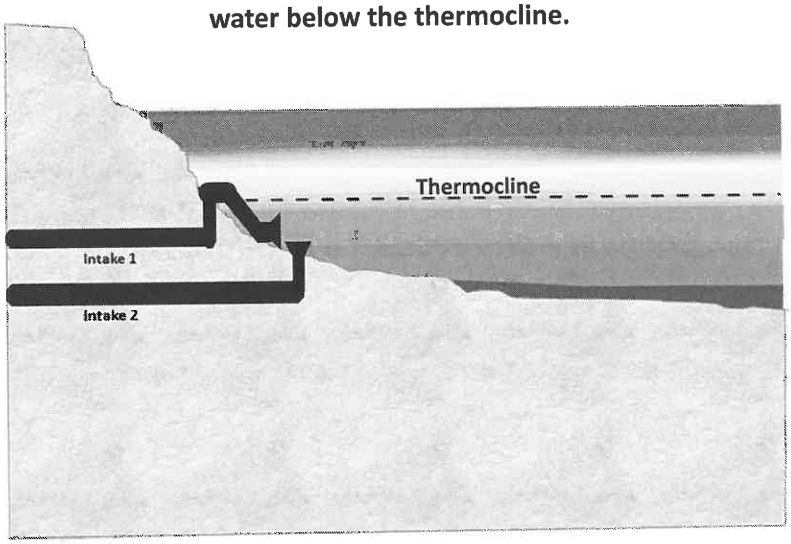
SNWA Intake System (2004)



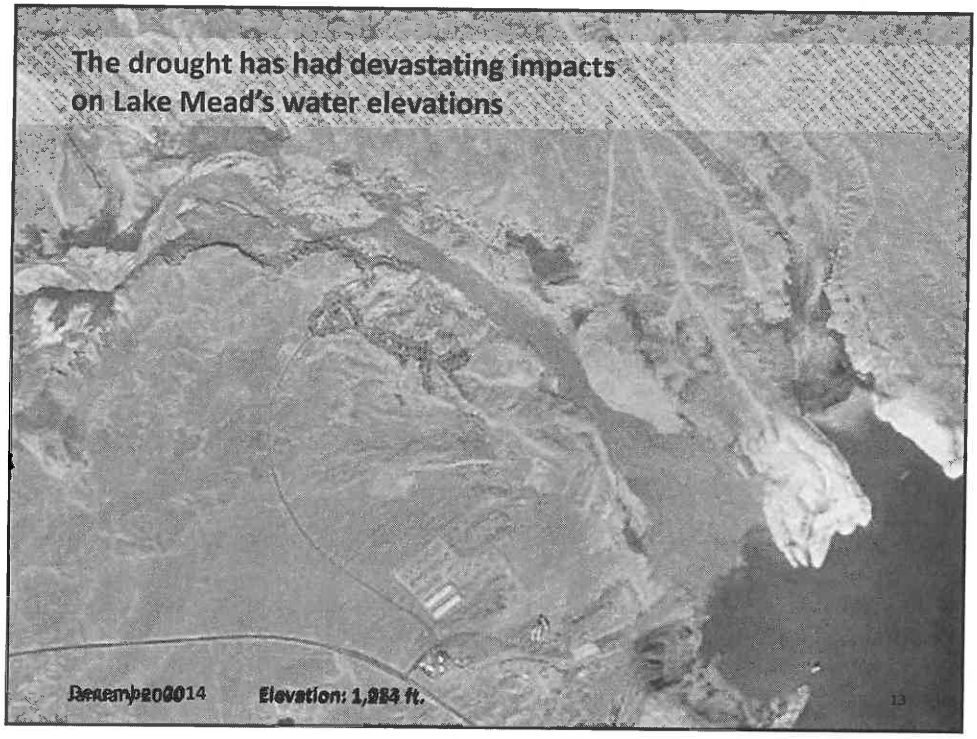
11

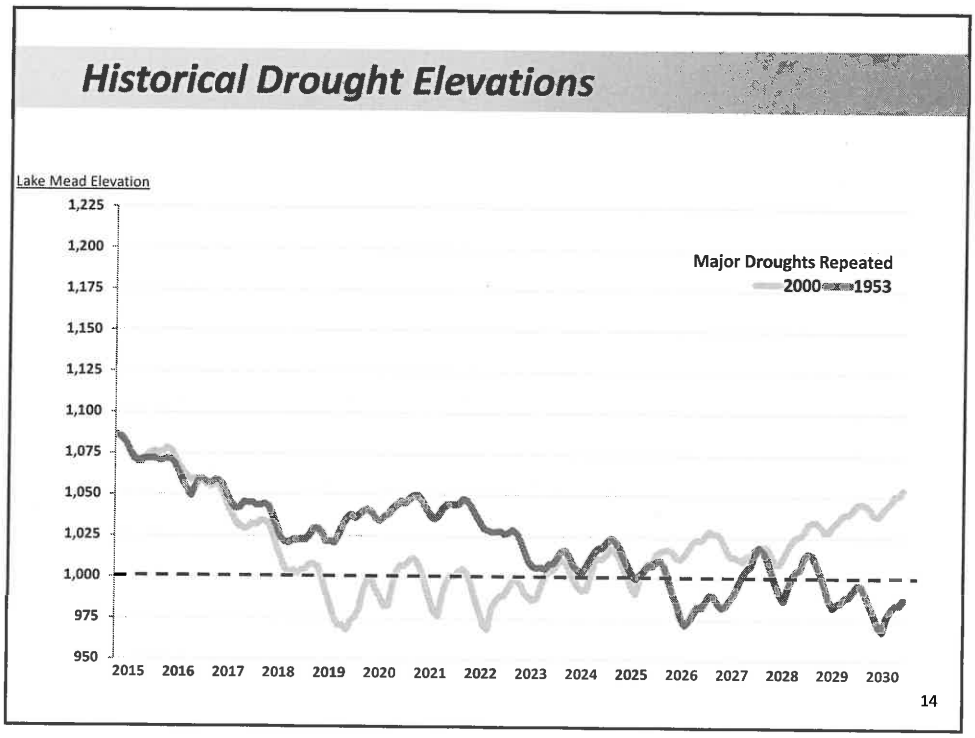
SNWA Intake System (Water Quality Protection)

The intake extension allowed SNWA to access water below the thermocline.



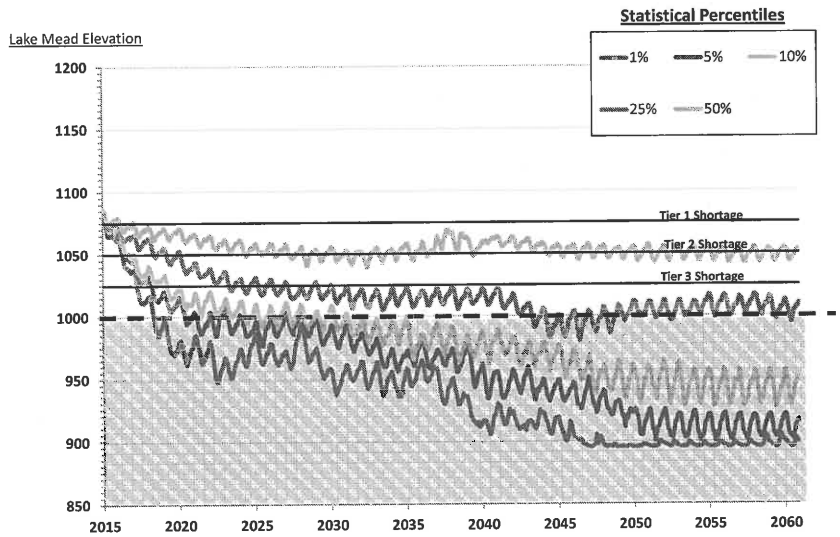
12


The drought has had devastating impacts on Lake Mead's water elevations
December 2000
Elevation: 1,224 ft.
13


Historical Drought Elevations
Lake Mead Elevation
1,225
1,200
1,175
1,150
1,125
1,100
1,075
1,050
1,025
1,000
975
950
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
Major Droughts Repeated
2000
1953
14

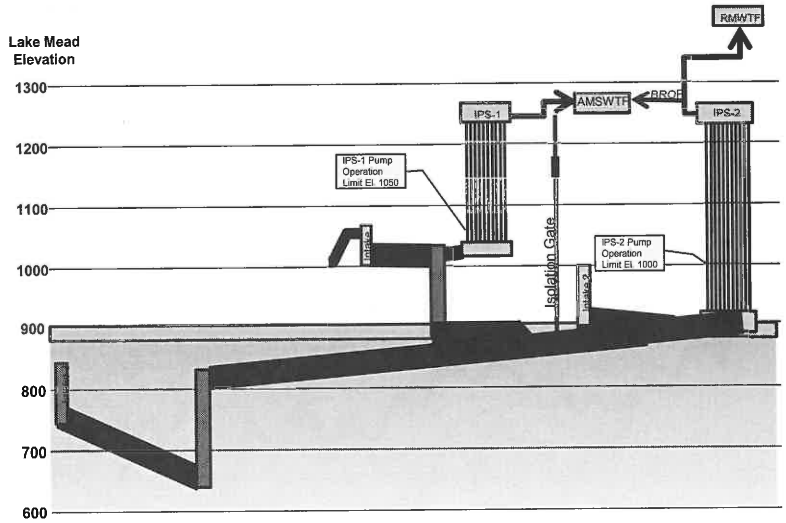
Projected Lake Mead Elevations

Percentiles Based on Observed Conditions

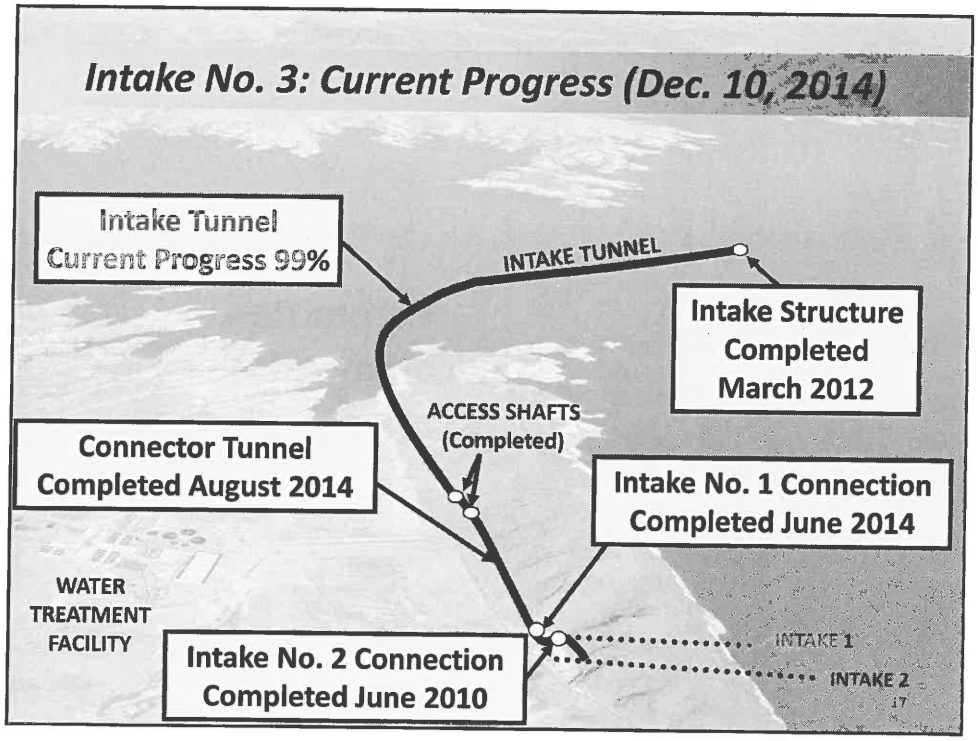


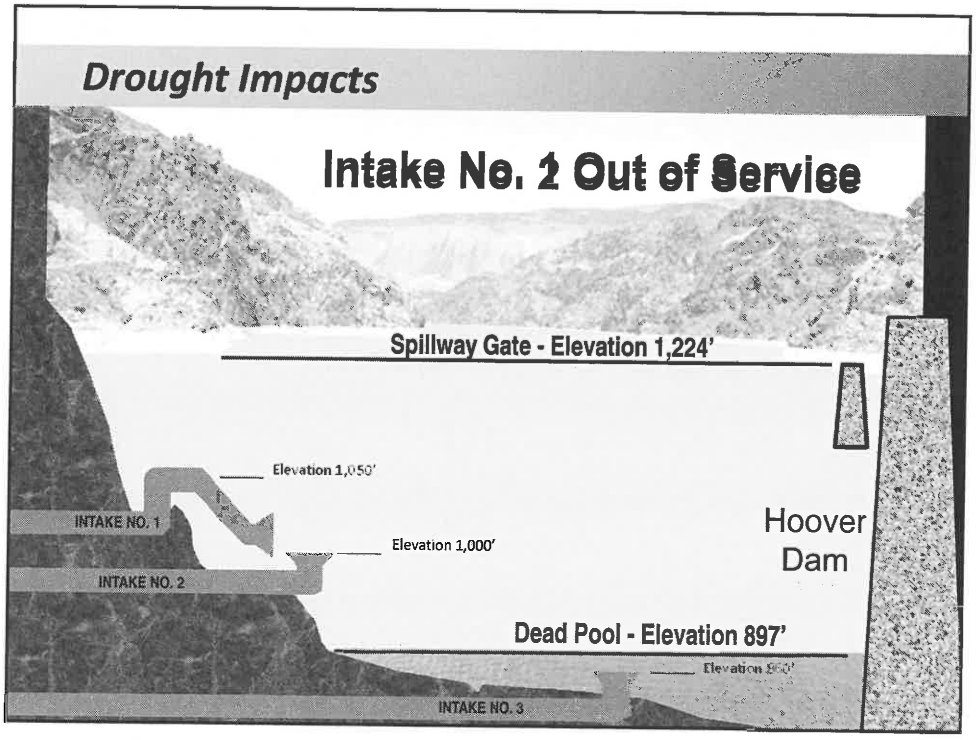
15

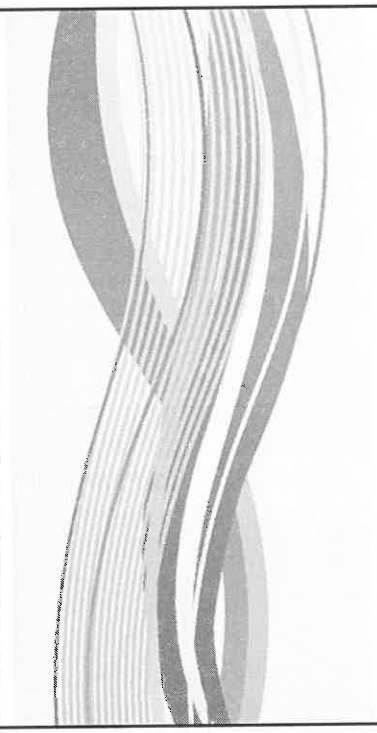
Intake No. 3



16


Intake No. 3: Current Progress (Dec. 10, 2014)
Intake Tunnel Current Progress 99%
INTAKE TUNNEL
Intake Structure Completed March 2012
ACCESS SHAFTS (Completed)
Connector Tunnel Completed August 2014
Intake No. 1 Connection Completed June 2014
WATER TREATMENT FACILITY
Intake No. 2 Connection Completed June 2010
INTAKE 1
INTAKE 2
17


Drought Impacts
Intake No. 1 Out of Service
Spillway Gate - Elevation 1,224'
Elevation 1,050'
INTAKE NO. 1
Elevation 1,000'
INTAKE NO. 2
Hoover Dam
Dead Pool - Elevation 897'
INTAKE NO. 3



Committee Recommendations

19

Recommendation #1
CONSERVATION – GPCD Goal

RECOMMENDATION #1: Evaluate an increased water conservation target upon achieving the currently established goal of reducing gross water usage to 199 Gallons Per Capita Per Day (GPCD) by 2035.

20

Investing in Conservation

The Southern Nevada Water Authority has invested more than $200 million in conservation measures:

- Direct customer incentives
- Administrative support of conservation programs
- Community education and outreach

Progress on the current conservation goal has been steady and, once reached, IRPAC has requested that the Board set a new goal.

21

Recommendation #2
CONSERVATION – Gross & Net Water Consumption

RECOMMENDATION #2: Present water usage information to the Board of Directors and the community in both "gross" and "net" terms for the purposes of 1) more accurately communicating the water resource implications associated with various conservation measures, and 2) improving comparability of our community's water consumption with that of other communities.

22

Use of GPCD to Measure Progress

Gallons Per Capita Per Day (GPCD) is the most common method of tracking water efficiency. However, it has limitations:

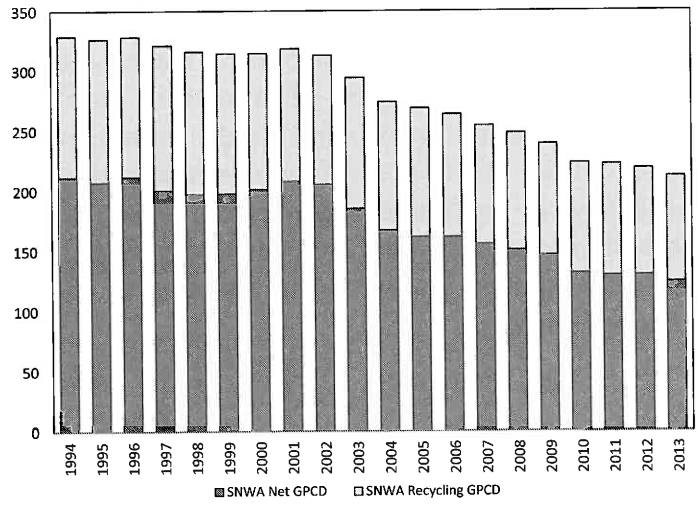
- No standard formula among cities
- Doesn't account for 40 million visitors (300K+ annualized)
- Doesn't reflect indoor water recovery
- Doesn't help communities prioritize initiatives

The "Gross" versus "Net" distinction has implications for the prioritization of conservation programs and communications

- Gross GPCD is valuable in evaluating facilities because it reflects deliveries
- Because Net GPCD reflects water recycling, it is useful when considering the impact of conservation initiatives on the community's "water footprint"

23

SNWA Gross v. Net GPCD



24

Recommendation #3
RESOURCES - Colorado River System Conservation Projects

RECOMMENDATION #3: Continue to partner with other Colorado River Basin States to undertake system conservation projects designed to protect critical elevations in Lake Powell and Lake Mead, conditional upon the identification of mutually agreeable projects and shared funding responsibilities.

25

Recommendation #3
RESOURCES - Colorado River System Conservation Projects

- **Colorado River System Conservation Agreement**
- **Memorandum of Understanding**
  Dec. 10 SNWA Board agenda

26

Recommendation #4
FUNDING – Colorado River System Conservation Projects To Be Funded as a One-time Capital Expenditure

RECOMMENDATION #4: Classify expenditures associated with Colorado River system conservation projects as one-time capital expenditures, thereby making funds available for these costs from Connection Charge revenues as identified in Recommendation Nos. 7 and 8 from the September 2013 Integrated Resource Planning Advisory Committee Recommendations Report.

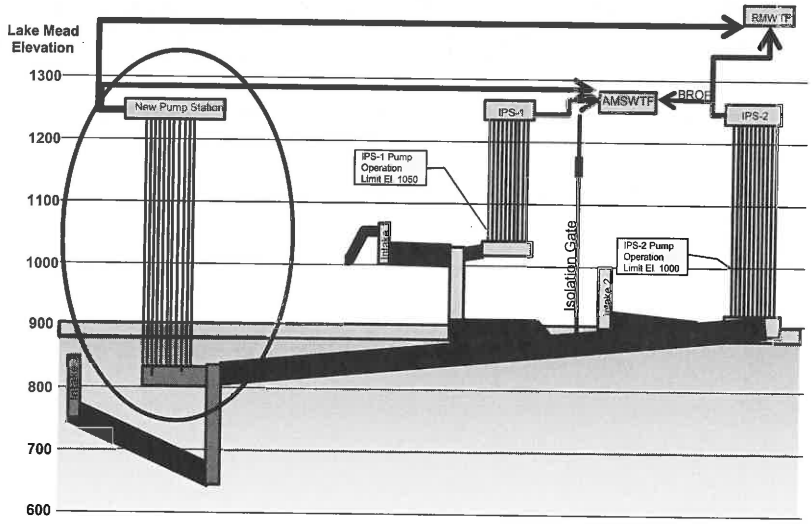
27

Recommendation #5
FACILITIES – Low lake level pumping station

RECOMMENDATION #5: Begin design and construction of a new low lake level pumping station within the swiftest feasible timeframe.

28

Above Ground Pumping Station



29

Above Ground Pumping Station

Low Lake Level Pumping Station Tentative Details:

- **Design for 900 million gallons per day capacity**
- **Pump from 875 feet**

The pumping station would be constructed to provide replacement capacity in the event Intake Pumping Station Nos. 1 and 2 are offline due to low lake levels – not to accommodate growth.

30

Recommendation #6
FUNDING – Generate needed revenue for the construction of a new water pumping station

RECOMMENDATION #6: Generate needed revenue for the construction of a new low lake level water pumping station exclusively through fixed charges based upon meter size.

31

New Pump Station Estimated Cost

Rate Model Assumptions:

- **Cost Estimate = $650 million**
- **Bond Issuances of $490 million in 2016, and $130 million in 2019**
- **Connection Charge revenues above $16.1 million a year and Fund Balance above $280 million used to fund $30 million in year one for design and engineering (consistent with Phase 1 recommendations)**
- **Schedule bond issuances to optimize the use of resources and minimize interest costs (June 2016 and June 2019)**

32

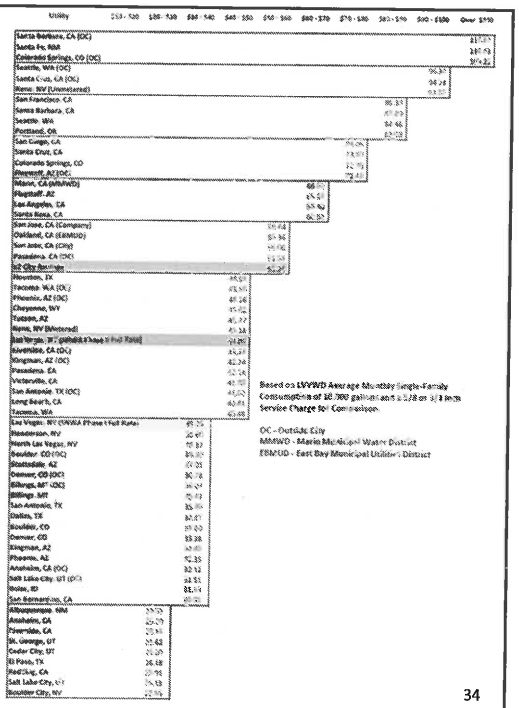
Summary of Rate Adjustments

100% Fixed Charge
Phased-in Increase

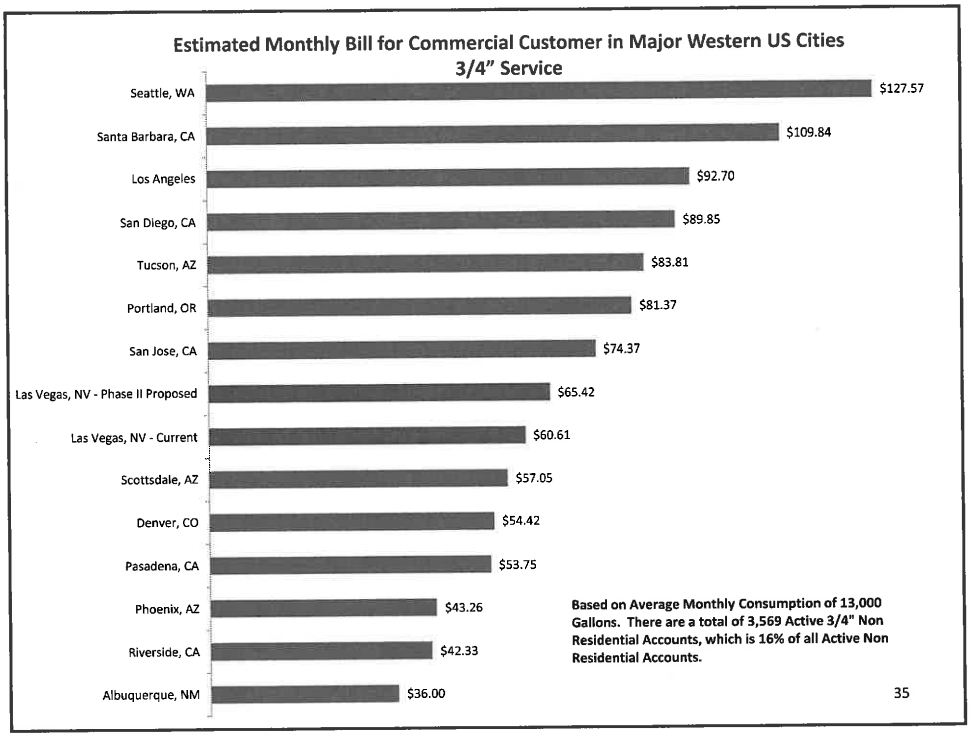
		2016	2017	2018	2019	2021
Residential - 5/8" & 3/4" meter sizes		$2.41	$3.61	$4.81	$4.81	$4.81
Residential - 1" meter size		$4.56	$6.84	$9.11	$9.11	$9.11
Residential - 1.5" meter size		$9.13	$13.67	$18.22	$18.22	$18.22
Residential - 2" meter size		$14.61	$21.88	$29.15	$29.15	$29.15
Residential - 3" meter size		$29.21	$43.76	$58.30	$58.30	$58.30
Residential - 4" meter size		$45.64	$68.37	$91.10	$91.10	$91.10
Residential - 6" meter size		$91.29	$136.74	$182.20	$182.20	$182.20
Residential - 8" meter size and larger		$146.06	$218.79	$291.52	$291.52	$291.52
Non-Residential - 5/8" & 3/4" meter sizes		$2.41	$3.61	$4.81	$4.81	$4.81
Non-Residential - 1" meter size		$4.56	$6.84	$9.11	$9.11	$9.11
Non-Residential - 1.5" meter size		$9.13	$13.67	$18.22	$18.22	$18.22
Non-Residential - 2" meter size		$14.61	$21.88	$29.15	$29.15	$29.15
Non-Residential - 3" meter size		$29.21	$43.76	$58.30	$58.30	$58.30
Non-Residential - 4" meter size		$45.64	$68.37	$91.10	$91.10	$91.10
Non-Residential - 6" meter size		$91.29	$136.74	$182.20	$182.20	$182.20
Non-Residential - 8" meter size		$146.06	$218.79	$291.52	$291.52	$291.52
Non-Residential - 10" and larger meter sizes		$209.96	$314.51	$419.05	$419.05	$419.05

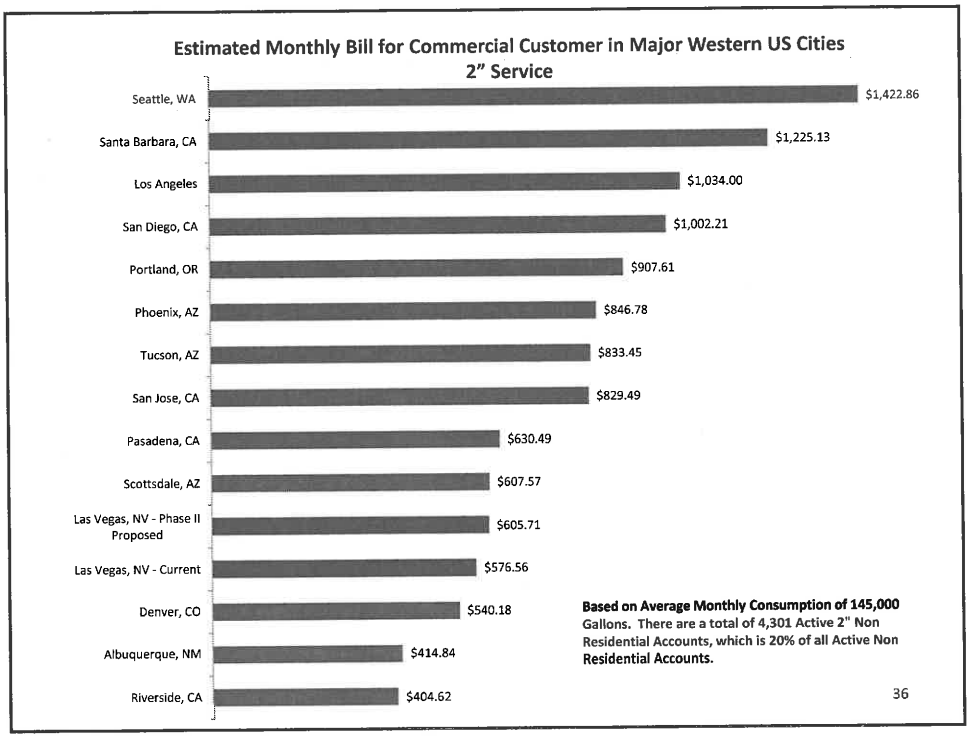
33

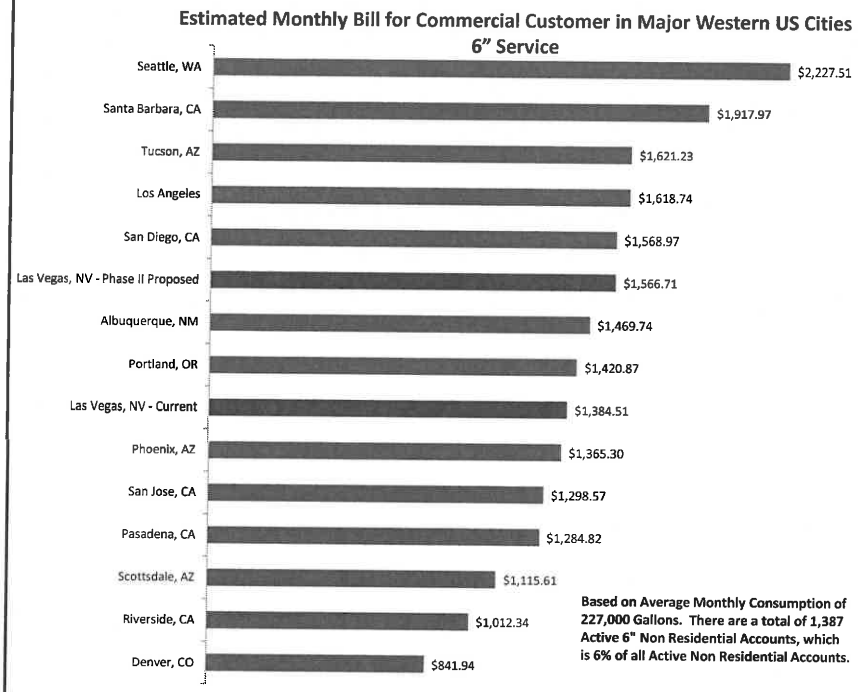
With the increase, the average LVVWD customer bill remains below the average among 62 comparable cities in the western United States.



34


Estimated Monthly Bill for Commercial Customer in Major Western US Cities
3/4" Service
Seattle, WA
$127.57
Santa Barbara, CA
$109.84
Los Angeles
$92.70
San Diego, CA
$89.85
Tucson, AZ
$83.81
Portland, OR
$81.37
San Jose, CA
$74.37
Las Vegas, NV - Phase II Proposed
$65.42
Las Vegas, NV - Current
$60.61
Scottsdale, AZ
$57.05
Denver, CO
$54.42
Pasadena, CA
$53.75
Phoenix, AZ
$43.26
Riverside, CA
$42.33
Albuquerque, NM
$36.00
Based on Average Monthly Consumption of 13,000 Gallons. There are a total of 3,569 Active 3/4" Non Residential Accounts, which is 16% of all Active Non Residential Accounts.
35


Estimated Monthly Bill for Commercial Customer in Major Western US Cities
2" Service
Seattle, WA
$1,422.86
Santa Barbara, CA
$1,225.13
Los Angeles
$1,034.00
San Diego, CA
$1,002.21
Portland, OR
$907.61
Phoenix, AZ
$846.78
Tucson, AZ
$833.45
San Jose, CA
$829.49
Pasadena, CA
$630.49
Scottsdale, AZ
$607.57
Las Vegas, NV - Phase II Proposed
$605.71
Las Vegas, NV - Current
$576.56
Denver, CO
$540.18
Albuquerque, NM
$414.84
Riverside, CA
$404.62
Based on Average Monthly Consumption of 145,000 Gallons. There are a total of 4,301 Active 2" Non Residential Accounts, which is 20% of all Active Non Residential Accounts.
36



37

Recommendation #7
FUNDING – Phase in the increase

RECOMMENDATION #7: Phase in the increase to fixed monthly charges over a three-year period.

38

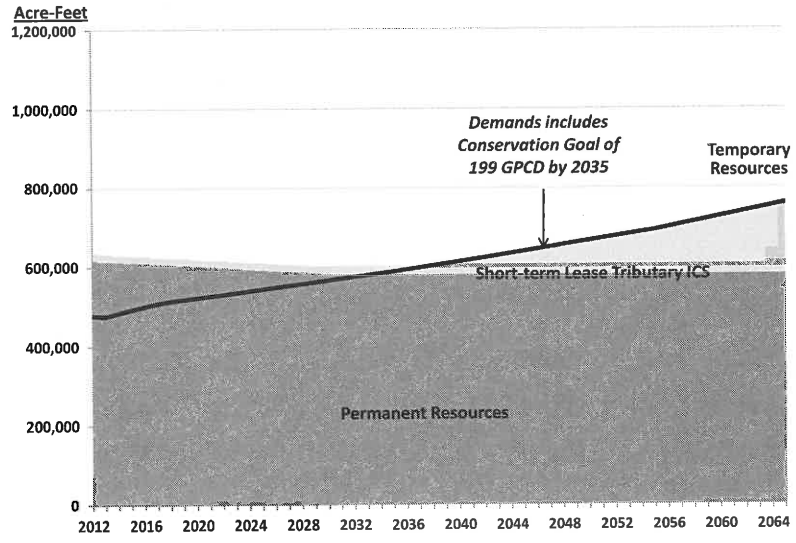
Recommendation #8
RESOURCES – Groundwater Development Project

RECOMMENDATION #8: Continue to include the Clark, Lincoln and White Pine Counties Groundwater Development Project within the SNWA's Water Resource Portfolio with future resource options.

39

SNWA Resource Demands

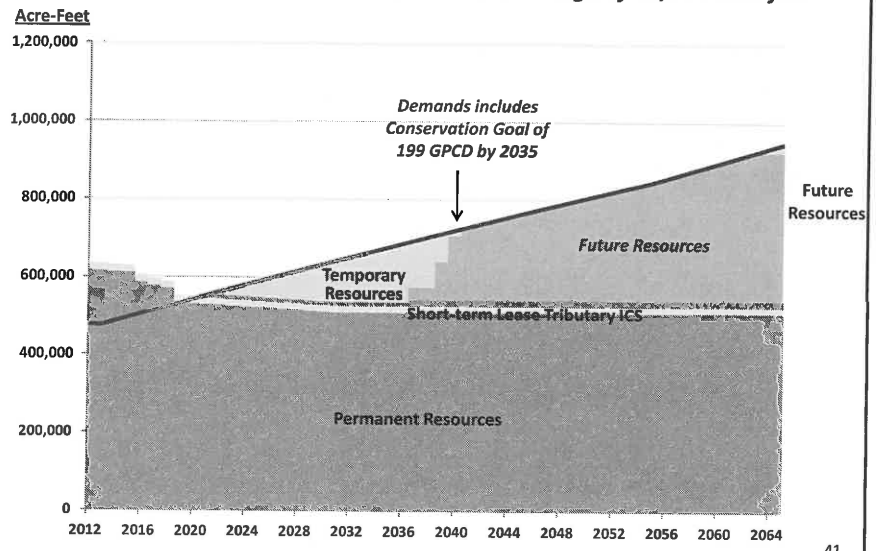
CBER Scenario: Colorado River Normal Conditions



40

SNWA Resource Demands

Economic Recovery Scenario: Colorado River Shortage of 40,000 acre-feet



41

Next Steps

Work with member agencies to implement recommendations.

- Business Impact Statement process
- Public hearings

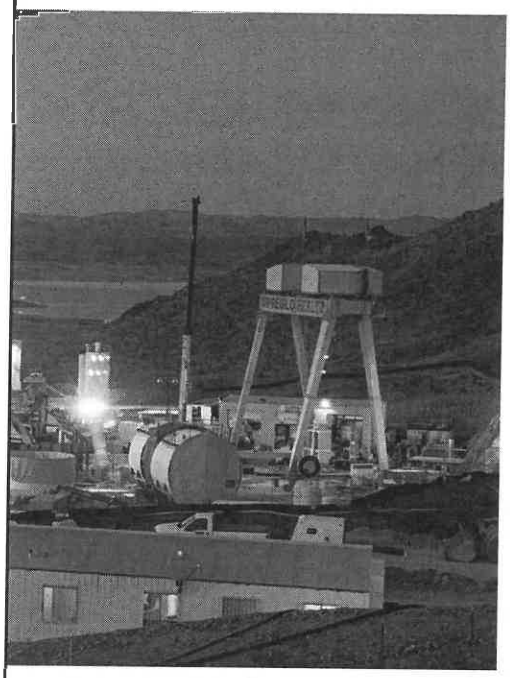
Educate community about IRPAC process and recommendations.

- Website updates
- Bill estimators
- Water bill inserts
- Radio advertisements
- Informational public meetings
- Speakers bureau
- Press releases and media
- Social media
- Newsletters

42

SOUTHERN NEVADA WATER AUTHORITY®

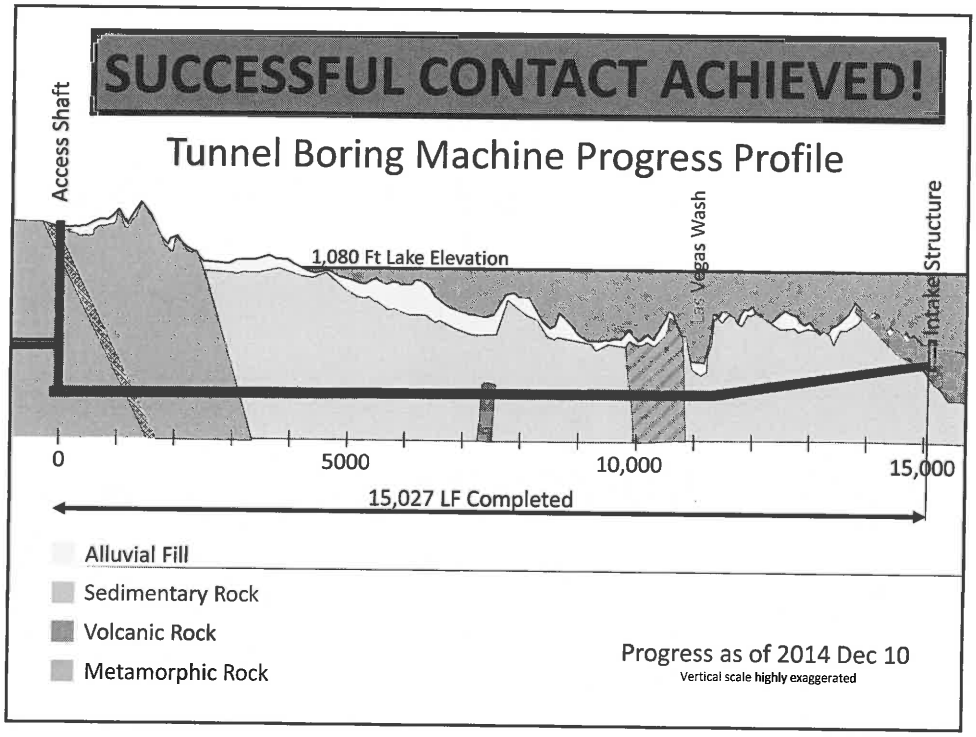
43



Southern Nevada Water Authority

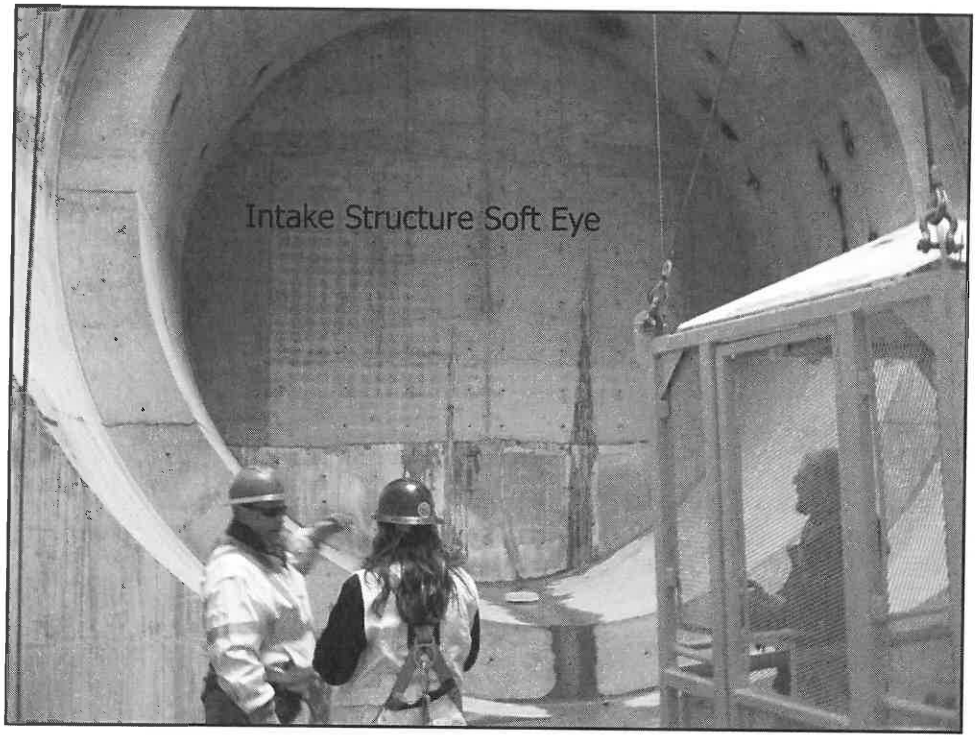
Lake Mead Intake No. 3 Update

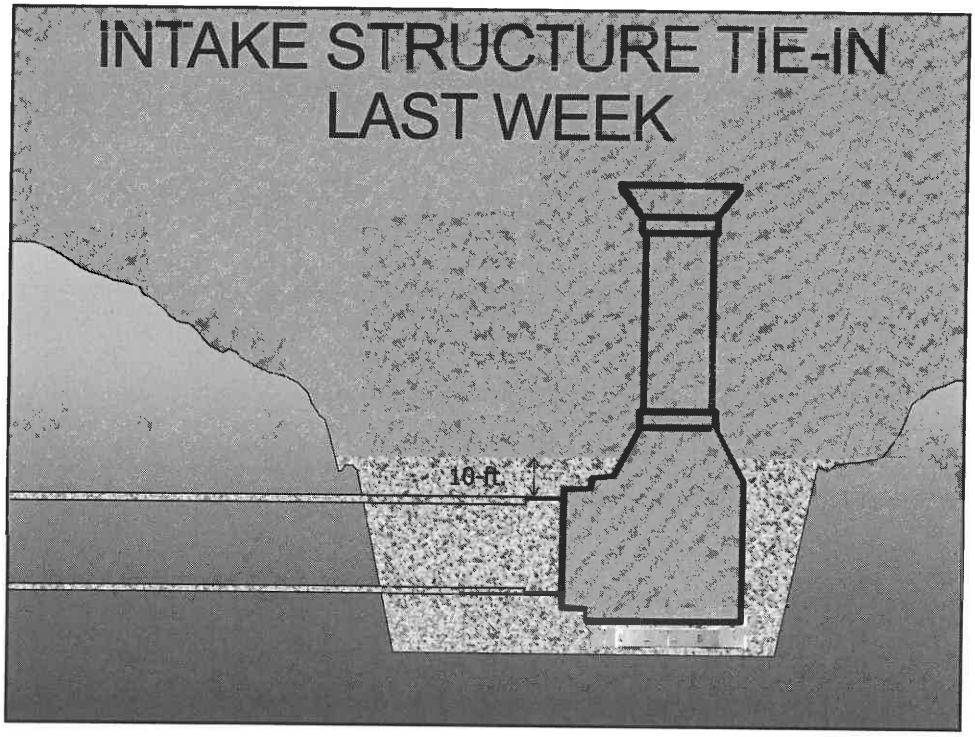
SNWA Board of Directors
December 10, 2014



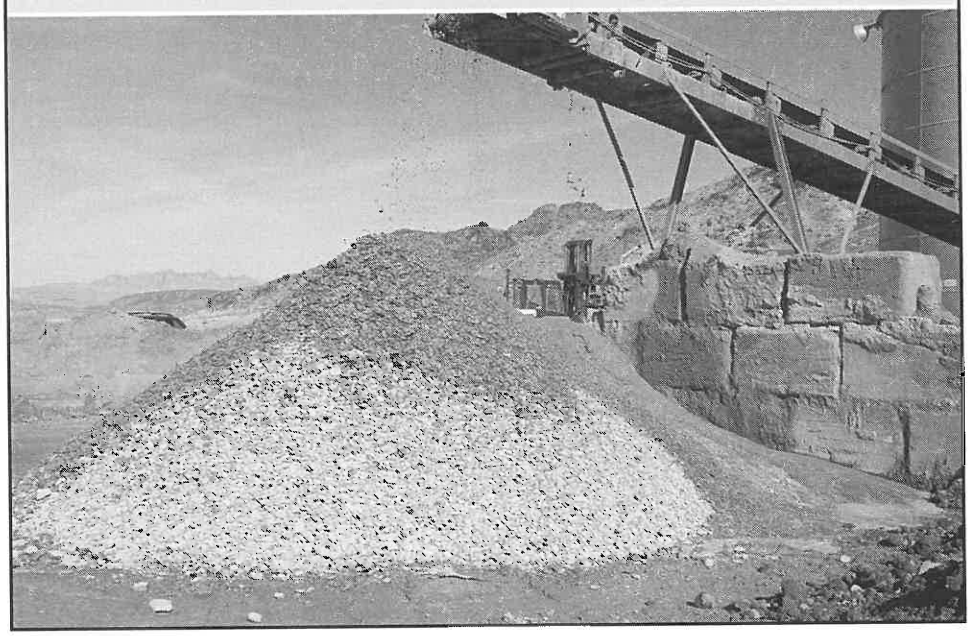
Intake Structure

Intake Structure Soft Eye

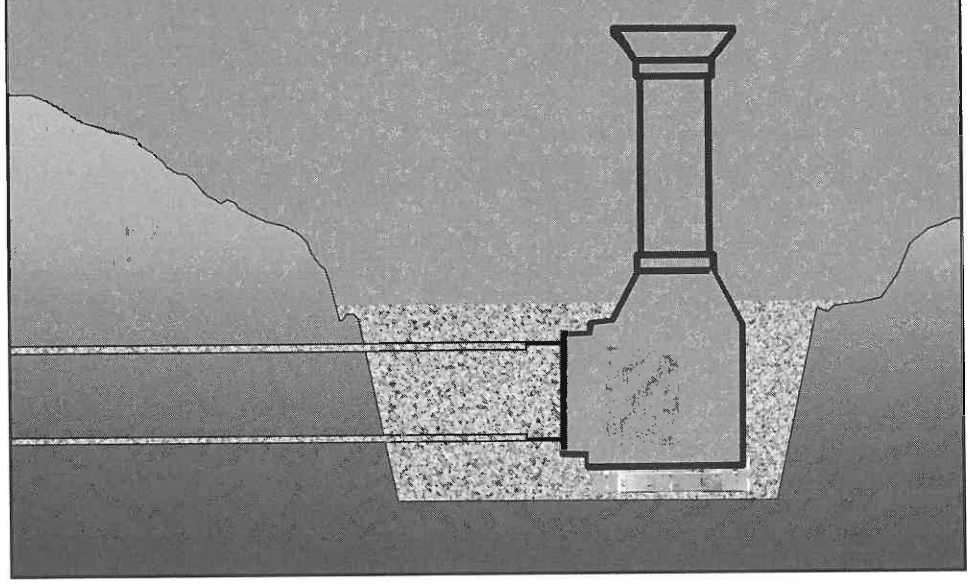

Intake Structure Soft Eye

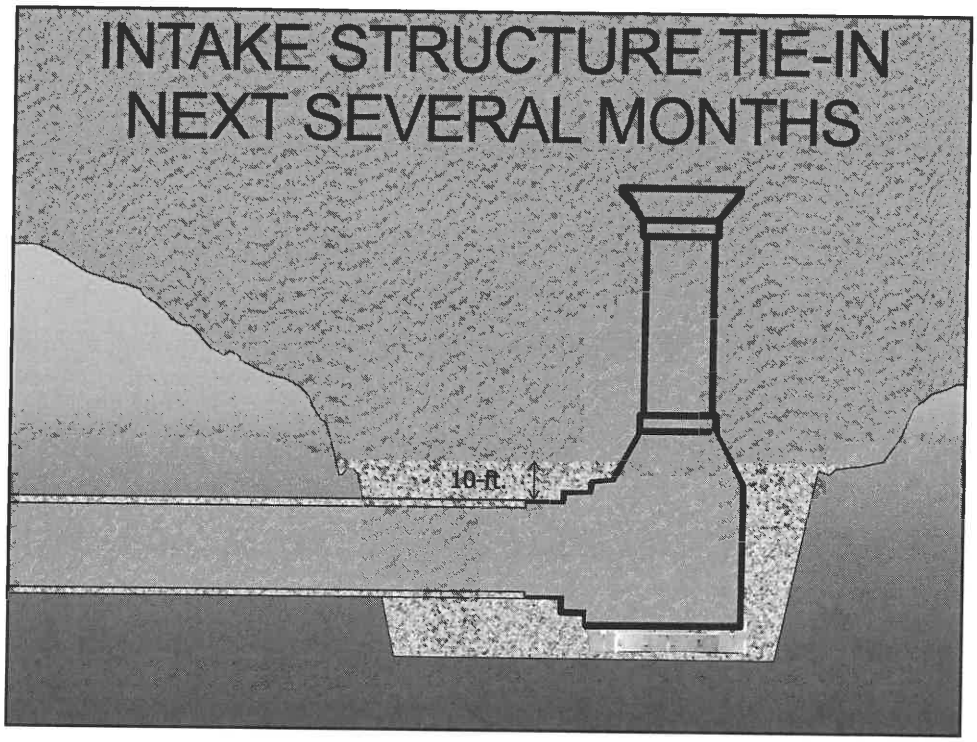

INTAKE STRUCTURE TIE-IN
LAST WEEK
10-ft

Excavated Concrete



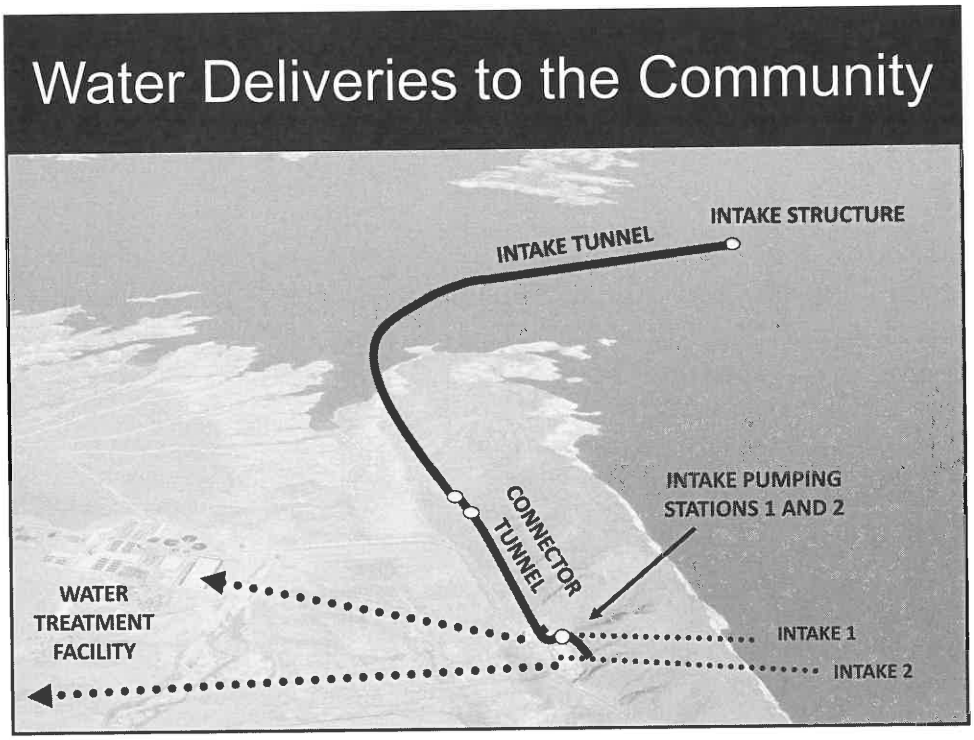
INTAKE STRUCTURE TIE-IN NOW AND NEXT FEW HOURS

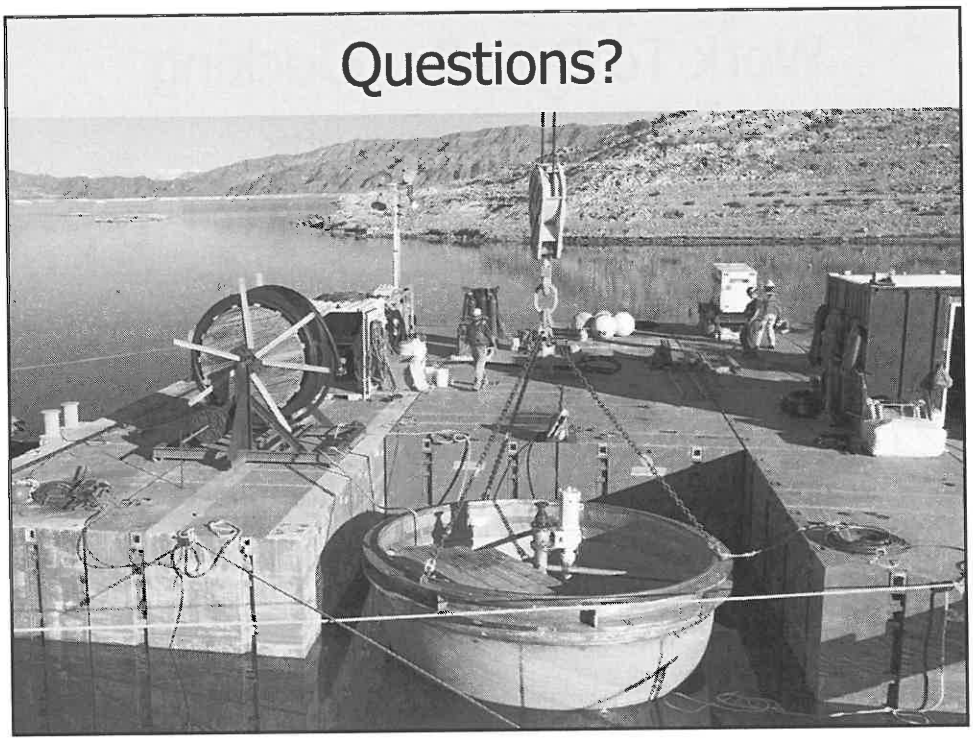




Work To Do After Docking

- Install temporary bulkhead and drain water
- Weld TBM outer shield to Intake Structure
- Grout around outer shield
- Remove TBM cutter head and internal equipment
- Install utility pipes from treatment facility to Intake Structure
- Temporarily cap Intake No. 1 and dewater connector tunnel
- Remove temporary bulkhead in connector tunnel
- Fill tunnel with water
- Remove temporary bulkhead on Intake Structure


Water Deliveries to the Community
INTAKE STRUCTURE
INTAKE TUNNEL
INTAKE PUMPING STATIONS 1 AND 2
CONNECTOR TUNNEL
WATER TREATMENT FACILITY
INTAKE 1
INTAKE 2


Questions?

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
AGENDA ITEM

January 15, 2015

Subject: Renewal of Interlocal Contract	**Director's Backup**
Petitioner: John J. Entsminger, General Manager	
Recommendations: That the Board of Directors renew the Amended and Restated Interlocal Contract between the Las Vegas Valley Water District and the Authority, authorizing the General Manager of the Water District to serve as the General Manager of the Authority, and utilizing the staff and resources of the District to manage the affairs of the Authority.	

Fiscal Impact:
None by approval of the above recommendation.

Background:
On January 14, 1993, the Board of Directors entered into an Interlocal Contract (Contract) with the Las Vegas Valley Water District (LVVWD) whereby its General Manager also serves as General Manager of the Authority and LVVWD staff performs the Authority's day-to-day operations. On January 16, 2014, the Board authorized John Entsminger to serve as its General Manager and approved the Amended and Restated Interlocal Contract between the LVVWD and the Authority.

Under the parameters of the current Contract, the Board is to review the Contract before February 28 of each year and determine whether to continue the relationship for the ensuing year.

The renewal of the Contract is authorized pursuant to NRS Chapter 277 and Section 21 of the SNWA 1995 Amended Cooperative Agreement. The office of the General Counsel has reviewed and approved the Contract.

Respectfully submitted:

John J. Entsminger, General Manager
JJE:PDS:JAW:AMB:KH
Attachment

AGENDA ITEM # 2

AMENDED AND RESTATED INTERLOCAL CONTRACT BETWEEN THE LAS VEGAS VALLEY WATER DISTRICT AND THE SOUTHERN NEVADA WATER AUTHORITY

The contract made and entered into on the 19th day of January, 1993, by the Las Vegas Valley Water District (hereinafter "DISTRICT") and the Southern Nevada Water Authority (hereinafter "AUTHORITY"), and as amended on March 2, 1993, and April 6, 1994, is further amended as set forth below:

WITNESSETH:

WHEREAS, the DISTRICT is a quasi-municipal corporation, organized under Chapter 167, Statutes of Nevada 1947, as amended; and

WHEREAS, the AUTHORITY is a political subdivision of the State of Nevada through the Southern Nevada Water Authority Cooperative Agreement pursuant to NRS 277.074 and 277.120; and

WHEREAS, the AUTHORITY desires the General Manager and staff of the DISTRICT to provide staff services to the AUTHORITY; and WHEREAS, the Board of the AUTHORITY desires to appoint the current General Manager of the DISTRICT, as General Manager of the AUTHORITY pursuant to Article 21 of the Southern Nevada Water Authority Cooperative Agreement; and

WHEREAS, the Board of the DISTRICT is willing to have the DISTRICT provide staff services to the AUTHORITY and the DISTRICT has the necessary expertise and ability to assume such responsibility; and

WHEREAS, pursuant to NRS 277.180, the AUTHORITY and the DISTRICT have the authority to enter into this interlocal contract.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties agree as follows;

1. The General Manager of the DISTRICT will serve as the General Manager of the AUTHORITY and will utilize the staff and resources of the DISTRICT to manage the affairs of the AUTHORITY under the authority granted to the General Manager pursuant to Article 21 of the Southern Nevada Water Authority Cooperative Agreement. The General Manager shall have the power to:

a. Plan, organize and direct all AUTHORITY activities as directed by the Board of the AUTHORITY;

b. Appoint and, subject to the requirements of applicable law, remove all AUTHORITY employees;

c. Authorize expenditures within the approved budget;

d. Enter into contracts on behalf of the AUTHORITY as authorized by the Board of the AUTHORITY; and

e. Take other actions authorized from time to time by the Board of the AUTHORITY.

2. The DISTRICT will maintain records of the DISTRICT's staff time, resources and expenses attributable to the operation of the AUTHORITY, and shall bill the AUTHORITY for reimbursement in accordance with the provisions of Article 23 of the Southern Nevada Water Authority Cooperative Agreement.

3. These reimbursed costs, both direct and indirect, shall include, but are not limited to, the following: payroll and related, office supplies, printing, travel and lodging, insurance, data processing, supervision, and office space.

4. The DISTRICT will submit a monthly detailed bill or invoice to the AUTHORITY for reimbursable costs as delineated in Paragraph 3 of this Contract. The AUTHORITY shall pay the DISTRICT within 30 days of receipt of said bill or invoice requesting payment. In addition, a copy of the detailed bills or invoices will be provided to each of the members.

5. Total reimbursable costs identified in Paragraph 3 of this Contract shall not exceed the AUTHORITY's operating budgets approved pursuant to Paragraph 23 of the Southern Nevada Water Authority Cooperative Agreement.

6. On or before February 28 of each year, the AUTHORITY shall review this Contract. If this Contract is to be renewed, said renewal must be approved by the AUTHORITY in conformance with the Southern Nevada Water Authority Cooperative Agreement dated July 25, 1991.

7. Further, this Contract shall terminate pursuant to paragraph 9 if the then current General Manager of the DISTRICT ceases to be General Manager of the DISTRICT, unless the AUTHORITY votes to appoint a new General Manager of the AUTHORITY and renew the Contract within the thirty-day termination period.

8. At all times under the performance of this Contract and upon termination, all materials developed, prepared or acquired by the DISTRICT during the performance of services under this Contract, including, without limitation, all finished or unfinished documents, research, memoranda, briefs, data, studies, surveys, drawings, manuals, maps, models, photographs, and reports, shall be the property of the AUTHORITY.

9. This Contract shall continue in existence until amended, rescinded, or upon non-renewal. Further, either party may cancel or rescind this Contract without cause with 30 days' written notice to the other party. In the event of cancellation or non-renewal, both parties will in good faith attempt to negotiate a transition agreement providing for the transfer of responsibility and work in progress from the DISTRICT to the AUTHORITY. The DISTRICT shall allow all employees who so desire to terminate their employment with the DISTRICT and join the AUTHORITY.

10. In entering into this Contract, the General Manager of the DISTRICT acknowledges that a fiduciary duty is created between the General Manager and the AUTHORITY, and that the General Manager will follow the direction and dictates of the Board of the AUTHORITY.

IN WITNESS WHEREOF, this Amended and Restated Interlocal Contract is hereby approved this 4th day of February, 2014.

Las Vegas Valley Water District

Mary Beth Scow, President

Date 2-4-14

Southern Nevada Water Authority

Mary Beth Scow, Chairwoman

Date 1-16-14

Approved as to form:

Gregory J. Walch, General Counsel for the
Las Vegas Valley Water District and
Southern Nevada Water Authority

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
AGENDA ITEM

January 15, 2015

Subject: Resolutions to Submit Grant Proposals	**Director's Backup**
Petitioner: Julie A. Wilcox, Deputy General Manager, Administration	
Recommendations: That the Board of Directors approve two resolutions authorizing the submission of grant proposals to the Bureau of Reclamation WaterSMART: Water and Energy Efficiency Grant Program.	

Fiscal Impact:
None by approval of the above recommendation.

Background:
The Bureau of Reclamation (BOR) recently announced funding availability for its WaterSMART: Water and Energy Efficiency Grants Program. This funding is designed to support projects that bank water, conserve water and energy, or generally make more efficient use of existing water supplies.

In accordance with eligibility requirements, the Board of Directors is being asked to approve two resolutions authorizing the submission of grant proposals to the BOR. The grant proposals will seek $1 million and $300,000, respectively, to support funding for the Authority's Water Smart Landscape Rebate Program.

If either of these proposals is accepted by the BOR, a funding agreement will be brought back before the Board for approval.

These resolutions are authorized pursuant to NRS Chapter 277 and Section 6(o) of the SNWA 1995 Amended Cooperative Agreement. The office of the General Counsel has reviewed and approved these resolutions.

Respectfully submitted:

John J. Entsminger, General Manager
JJE:PDS:JAW:AMB:ZLM:KH:kf
Attachments

AGENDA ITEM # 3

RESOLUTION IN SUPPORT OF FUNDING REQUEST FOR
WATERSMART: WATER AND ENERGY EFFICIENCY GRANT PROPOSAL TO
THE UNITED STATES BUREAU OF RECLAMATION

WHEREAS, the U.S. Bureau of Reclamation WaterSMART: Water and Energy Efficiency Grants Program is soliciting proposals for and may provide financial assistance to irrigation districts, water districts and other organizations to implement projects that save water, improve energy efficiency, address endangered species and other environmental issues, and facilitate transfers to new uses; and

WHEREAS, the WaterSMART: Water and Energy Efficiency Grant Program specifically allows for project proposals involving an individual sale, lease or exchange of conserved water to another water use for agricultural, municipal or instream uses; and

WHEREAS, the Southern Nevada Water Authority has adopted a Water Resource Plan and a Conservation Plan, which outline specific water conservation strategies; and

WHEREAS, the Southern Nevada Water Authority will benefit significantly from financial assistance under the WaterSMART: Water and Energy Efficiency Grant Program to support water conservation efforts in Southern Nevada.

NOW, THEREFORE, BE IT RESOLVED that the Southern Nevada Water Authority Board of Directors agrees and authorizes:

1. The submission of an application to the U.S. Bureau of Reclamation WaterSMART: Water and Energy Efficiency Grant Program requesting $1,000,000 to support the Authority's Water Smart Landscape Rebate Program.

2. The submission of a proposal, including a funding plan that outlines the applicant's ability to provide up to $10,000,000 in matching funds, as specified by the WaterSMART: Water and Energy Efficiency Grant Program.

3. The Southern Nevada Water Authority's General Manager, or his designee, to execute and file an application and proposal with the U.S. Bureau of Reclamation for funding under the WaterSMART: Water and Energy Efficiency Grant Program, as outlined above.

Introduced and passed this 15th day of January, 2015.

Attest:

Southern Nevada Water Authority

John J. Entsminger, Secretary

Mary Beth Scow, Chair

Approved as to form:

Gregory J. Walch, General Counsel

RESOLUTION IN SUPPORT OF FUNDING REQUEST FOR
WATERSMART: WATER AND ENERGY EFFICIENCY GRANT PROPOSAL TO
THE UNITED STATES BUREAU OF RECLAMATION

WHEREAS, the U.S. Bureau of Reclamation WaterSMART: Water and Energy Efficiency Grants Program is soliciting proposals for and may provide financial assistance to irrigation districts, water districts and other organizations to implement projects that save water, improve energy efficiency, address endangered species and other environmental issues, and facilitate transfers to new uses; and

WHEREAS, the WaterSMART: Water and Energy Efficiency Grant Program specifically allows for project proposals involving an individual sale, lease or exchange of conserved water to another water use for agricultural, municipal or instream uses; and

WHEREAS, the Southern Nevada Water Authority has adopted a Water Resource Plan and a Conservation Plan, which outline specific water conservation strategies; and

WHEREAS, the Southern Nevada Water Authority will benefit significantly from financial assistance under the WaterSMART: Water and Energy Efficiency Grant Program to support water conservation efforts in Southern Nevada.

NOW, THEREFORE, BE IT RESOLVED that the Southern Nevada Water Authority Board of Directors agrees and authorizes:

1. The submission of an application to the U.S. Bureau of Reclamation WaterSMART: Water and Energy Efficiency Grant Program requesting $300,000 to support the Authority's Water Smart Landscape Rebate Program.

2. The submission of a proposal, including a funding plan that outlines the applicant's ability to provide up to $3,000,000 in matching funds, as specified by the WaterSMART: Water and Energy Efficiency Grant Program.

3. The Southern Nevada Water Authority's General Manager, or his designee, to execute and file an application and proposal with the U.S. Bureau of Reclamation for funding under the WaterSMART: Water and Energy Efficiency Grant Program, as outlined above.

Introduced and passed this 15 day of January, 2015.

Attest:

Southern Nevada Water Authority

John J. Entsminger, Secretary

Mary Beth Scow, Chair

Approved as to form:

Gregory J. Walch, General Counsel

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
AGENDA ITEM

January 15, 2015

Subject: Amendment	**Director's Backup**
Petitioner: David L. Johnson, Deputy General Manager, Engineering/Operations	
Recommendations: That the Board of Directors approve and authorize the Chair to sign an amendment to the existing agreement between Montgomery Watson/CH2M Hill and the Authority for lead design engineering services for the Authority's capital improvement program for an amount not to exceed $10,000,000.	

Fiscal Impact:
If the above recommendation is approved, funds for multi-year services provided by this amendment are available and included in this year's budget and will be included in subsequent budgets to complete the anticipated work.

Background:
On December 16, 1993, the Board of Directors approved Agreement No. SNWA94-C-0002 with the Montgomery Watson/CH2M Hill joint venture for lead design engineering services for the Authority's capital improvement program. The Board previously approved amendments to fund engineering design and support services, including services for Lake Mead Intake No. 3.

On December 10, 2014, the Board adopted the recommendations of the Integrated Resource Planning Advisory Committee. Among those recommendations is to begin design and construction of a new low lake level water pumping station within the swiftest feasible timeframe. To accomplish this objective, staff proposes to continue utilizing the services of Montgomery Watson/CH2MHill for the design of the pumping station as part of the Lake Mead Intake No. 3 project, and authorize those services for the underground portion of the pumping station.

The attached amendment will provide funds for design-related engineering services for the underground facilities of a new low lake level pumping station. A future amendment is anticipated to be brought before the Board for funding the design of the above-ground facilities and related engineering services during construction.

This amendment is being entered into pursuant to NRS 332.115(1)(b) and Section 6(j) of the SNWA 1995 Amended Cooperative Agreement. The office of the General Counsel has reviewed and approved the amendment.

Respectfully submitted:

John J. Entsminger, General Manager
JJE:PDS:DLJ:MRJ:EPM:dwb
Attachments

AGENDA ITEM # 4

DISCLOSURE OF OWNERSHIP/PRINCIPALS

Business Entity Type							
☐ Sole Proprietorship	☒ Partnership	☐ Limited Liability Company	☐ Privately Held Corporation	☐ Publically Traded Corporation	☐ Trust	☐ Non-Profit Organization	☐ Other

Business Designation Group					
☐ MBE	☐ WBE	☐ SBE	☐ PBE	☐ ESB	☐
Minority Business Enterprise	Woman-Owned Business Enterprise	Small Business Enterprise	Physically Challenged Business Enterprise	Emerging Small Business	

Corporate/Business Entity Name:	Montgomery Watson/CH2M HILL (Joint Venture)		
(Include d.b.a., if applicable)			
Street Address:	2785 Village View Drive	Website:	ch2m.com
City, State and Zip Code:	Henderson, NV 89074	POC Name and Email:	
Telephone No:	702-369-6175	Fax No:	702-369-1107
Local Street Address:	2785 Village View Drive	Website:	CH2m.com
City, State and Zip Code:	Henderson, NV 89074	Local Fax No:	702-369-1107
Local Telephone No:	702-369-6175	Local POC Name Email:	
Number of Clark County, Nevada Residents Employed:	87		

All entities, with the exception of publicly-traded and non-profit organizations, must list the names of individuals, either directly or indirectly, holding more than five percent (5%) ownership or financial interest in the business entity appearing before the SNWA Board of Directors.

Publicly-traded entities and non-profit organizations shall list all Corporate Officers and Directors in lieu of disclosing the names of individuals with ownership or financial interest. The disclosure requirement, as applied to land-use applications, extends to the applicant and the landowner(s).

Entities include all business associations organized under or governed by Title 7 of the Nevada Revised Statutes, including but not limited to private corporations, close corporations, foreign corporations, limited liability companies, partnerships, limited partnerships, and professional corporations.

Full Name	Title	% Owned (Not required for Publicly Traded Corporations/Non-profit organizations)
MWH Americas, Inc.		50%
CH2M HILL Engineers, Inc.		50%

This section is not required for publicly-traded corporations.

1. Are any individual members, partners, owners or principals, involved in the business entity, an SNWA full-time employee(s), or appointed/elected official(s)?

   ☐ Yes ☒ No (If yes, please note that SNWA employee(s), or appointed/elected official(s) may not perform any work on professional service contracts, or other contracts, which are not subject to competitive bid.)

2. Do any individual members, partners, owners or principals have a spouse, registered domestic partner, child, parent, in-law or brother/sister, half-brother/half-sister, grandchild, grandparent, related to an SNWA full-time employee(s), or appointed/elected official(s)?

   ☐ Yes ☒ No (If yes, please complete the Disclosure of Relationship form on Page 2. If no, please print N/A on Page 2.)

I certify under penalty of perjury, that all of the information provided herein is current, complete, and accurate. I also certify that the entity is not on the federal government's Excluded Parties List, as defined by 2 CFR § 180.945. I further understand that the SNWA will not take action on land-use approvals, contract approvals, land sales, leases or exchanges without the completed disclosure form.

Signature	Julian R. Hoyle Print Name
Administrative Manager Title	December 30, 2014 Date

Revised 10/30/14

DISCLOSURE OF RELATIONSHIP

List any disclosures below:
(Mark N/A, if not applicable.)

NAME OF BUSINESS OWNER/PRINCIPAL	NAME OF SNWA EMPLOYEE OR OFFICIAL AND JOB TITLE	RELATIONSHIP TO SNWA EMPLOYEE OR OFFICIAL	SNWA EMPLOYEE'S/OFFICIAL'S DEPARTMENT
N/A			

"Consanguinity" is a relationship by blood. "Affinity" is a relationship by marriage.

"To the second degree of consanguinity" applies to the candidate's first and second degree of blood relatives as follows:

- Spouse – Registered Domestic Partners – Children – Parents – In-laws (first degree)
- Brothers/Sisters – Half-Brothers/Half-Sisters – Grandchildren – Grandparents – In-laws (second degree)

For SNWA Use Only:

If no Disclosure or Relationship is noted above or if the section is marked N/A, please check this box:

☒ No Disclosure

If any Disclosure of Relationship is noted above, please complete the following:

☐ Yes ☐ No Is the SNWA employee(s) noted above involved in the contracting/selection process for this particular agenda item?

☐ Yes ☐ No Is the SNWA employee(s) noted above involved in any way with the business in performance of the contract?

Notes/Comments:

Erika Moonin
Signature

Erika Moonin
Print Name
Authorized Department Representative

AMENDMENT OF AGREEMENT/WORK AUTHORIZATION

AMENDMENT/CHANGE NO.	AGREEMENT OR WORK AUTHORIZATION NO.
A022	SNWA94-C-0002
Amendment : [x] Change [ ]	EFFECTIVE DATE: January 15, 2015
NAME AND ADDRESS OF CONTRACTOR: Montgomery Watson/CH2M Hill (JV) 2485 Village View Drive, suite 350 Henderson, NV 89074 Attn: Julian Hoyle	ISSUED BY: Southern Nevada Water Authority 100 City Parkway, Suite 700 Las Vegas, Nevada 89106

CONTRACTOR [x] IS : [ ] IS NOT: REQUIRED TO SIGN AND RETURN TO ISSUING OFFICE.

DESCRIPTION OF AMENDMENT/CHANGE:

Amendment No. 22 will provide funds for preliminary design services, design services and engineering services during construction for the Low Lake Level Pumping Station underground facilities. (The Low Lake Level Pumping Station will draw water from Intake No. 3.)

Except as provided herein, all terms and conditions of the document referenced above, as heretofore changed, remains unchanged and in full force and effect.

AMOUNT OF AMENDMENT/CHANGE NTE $10,000,000	IF REVISED, COMPLETION DATE N/A

APPROPRIATION DATA:

Previous Funding	NTE	$ 166,400,000
Current Funding	NTE	$ 10,000,000
Total Agreement Funding	NTE	$ 176,400,000

Approved as to legality:

Laura E. Browning, Legal Counsel
for the Southern Nevada Water Authority

1/5/15
Date

NAME & TITLE OF SIGNER *(Type or Print)*		NAME & TITLE OF AUTHORITY OFFICIAL *(Type or Print)*	
Julian Hoyle *Agreement Administrator*		*Mary Beth Scow* *Chair*	
	1/5/2015		
SIGNATURE OF PERSON AUTHORIZED TO SIGN	*DATE*	*AUTHORITY OFFICIAL*	*DATE*

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
AGENDA ITEM

January 15, 2015

Subject: Right-of-Way Grant	**Director's Backup**
Petitioner: David L. Johnson, Deputy General Manager Engineering/Operations	
Recommendations: That the Board of Directors approve and authorize the General Manager to execute the renewal of Right-of-Way Grant N-057343 offered by the Bureau of Land Management for a well, hydroplant, and buried irrigation pipeline across federal land near Harbecke Ranch in Spring Valley, Nevada, and pay the 30-year rental fee in an amount of $103.47.	

Fiscal Impact:
The required $103.47 is available in the Authority's budget.

Background:
On July 20, 2006, the Board of Directors authorized the purchase of Harbecke Ranch (Ranch), including associated water rights and land easements in Spring Valley, Nevada. Upon completion of the Ranch purchase, the Bureau of Land Management (BLM) transferred Right-of-Way Grant N-057343 (ROW) that had been assigned to the previous owners of the Ranch to the Authority for the remainder of the ROW's term. The ROW is located immediately east of the Ranch and is authorized for water facilities, including a well, hydroplant, and pipeline. The previous Ranch owners built the well and pipeline, which are in use by the Authority and are necessary for ongoing ranch operations and management of associated water rights. The hydroplant has not been built; however, its inclusion in the ROW allows installation in the future, if needed.

If approved, the attached ROW will allow for the Authority's continued use of the well and pipeline, and allow the future installation of the hydroplant. The stipulations of the ROW have been updated and the term will be authorized through December 2044.

The rental fee for the ROW is required under Title V of Federal Land Policy and Management Act of 1976, as amended. The BLM has calculated the rental fee in an amount of $103.47, which covers the full 30-year term of the ROW.

This action is authorized pursuant to 43 CFR Part 2800, and Section 6(f) of the SNWA 1995 Amended Cooperative Agreement. The office of the General Counsel has reviewed and approved the right-of-way grant.

Respectfully submitted:

John J. Entsminger, General Manager
JJE:PDS:DLJ:ZLM:LML:KR:dg X0042
Attachments

AGENDA ITEM # 5

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Schell Field Office
HC33 Box 33500 (702 N. Industrial Way)
Ely, Nevada 89301-9408
http://www.blm.gov/nv/st/en/fo/ely_field_office.html

RECEIVED
11-24-14

In Reply Refer To:
2870 (NVL0200)
N-057343

NOV 18 2014

Southern Nevada Water Authority
Attn: Zane Marshall
P.O. Box 99956
Las Vegas, NV 89193-9956

Dear Mr. Marshall:

Enclosed are two unsigned copies of the renewal offer for Right-of-Way Grant (ROW) N-057343, for a well, hydro-plant and buried irrigation pipeline located in Spring Valley, White Pine County, Nevada. Also attached are Exhibit A (legal descriptions), Exhibit B (stipulations), and a map of the project location. Please sign and date both copies of the grant and Exhibit B and return the documents to the address above. Once the grant has been signed by the BLM, a full copy will be returned to you along with a decision letter.

We would appreciate the opportunity for early coordination with regard to any future applications you intend to submit to the State Engineer for changes to the water right associated with this ROW. Early coordination would greatly assist in determining potential substantial deviations to the ROW, as explained in Exhibit B, Standard Stipulation No. 9.

Fees associated with processing and monitoring this project shall be charged to the cost recovery account for the groundwater project as previously discussed and noted.

Rent for use of public lands must be paid in advance of such use and prior to issuance of the ROW grant. Rent for a linear ROW is based on a schedule that is adjusted annually based on the Implicit Price Deflator (IPD), an inflation index. Rent for this ROW has been determined to be **$103.47** for the full term (30 years) as offered.

Please remit a check or money order for the rental fee of **$103.47**, payable to U.S. Department of the Interior, BLM, within 60 days of receipt of this letter. Please also return BOTH signed copies of the grant and exhibits. If these requirements are not met, your application may be denied.

If you have any questions please contact Alicia Hankins, at (775) 289-1851 or by email to ahankins@blm.gov.

Sincerely,

Paul E. Podborny
Field Manager
Schell Field Office

Enclosures

FORM 2800-14
(August 1985)

Issuing Office
Schell Field Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT

SERIAL NUMBER NVN-057343

---

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

   a. By this instrument, the holder:

      Southern Nevada Water Authority
      P.O. Box 99956
      Las Vegas, NV 89193-9956

      receives a right to construct, operate, maintain, and terminate a well, hydroplant and irrigation pipeline right-of-way on public lands described in Exhibit A, attached.

   b. The right-of-way or permit area granted herein is 20 feet wide, 24 feet long (BLM-Public Land Only) and contains .011 acres.

   c. This instrument shall terminate 30 years from its effective date (December 31, 2044) unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

   d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.

   e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2800.

b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.

c. Each grant issued for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.

d. The stipulations, plans, maps, or designs set forth in Exhibit B, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.

e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.

f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

(Signature of Holder)	(Signature of Authorized Officer)
John J. Entsminger	
General Manager	FIELD MANAGER, SCHELL FIELD OFFICE
(Title)	(Title)
(Date)	(Effective Date of Grant)

SOUTHERN NEVADA WATER AUTHORITY
APPROVED AS TO FORM:

Brian Chally, Director
Legal Services

Exhibit A
Legal Description
Southern Nevada Water Authority
Well, Hydroplant and Irrigation Pipeline N-057343

Use	Township	Range	Section	Aliquot Part Description	Acreage	Existing Disturbance
Irrigation System ROW	13 North	67 East	14	SESW;	0.011 acres (20 feet wide by 24' feet long)	Pumphouse, Well, Hydroplant, buried pipeline.
				Right-of-Way Total Acres	.011 acres	

EXHIBIT- B
STANDARD and SPECIAL STIPULATIONS
Southern Nevada Water Authority
Well, Hydroplant and Irrigation Pipeline N-057343

This Right-of-Way (ROW) is being renewed as previously constructed by a separate party. Accordingly, the stipulations below are applicable to this ROW, although a specific stipulation may not apply in whole or in part to the extent that the specified activity is not currently applicable for the project.

STANDARD STIPULATIONS

General

1. In case of change of address, the holder shall immediately notify the Bureau of Land Management (BLM) Authorized Officer.

2. This grant is subject to all valid rights existing on the effective date of this grant.

3. The holder shall construct, operate, and maintain the facilities, improvements, and structures within this right-of-way (ROW) in strict conformity with the plan of development (POD) that accompanied the application and was approved and made part of the grant. Any relocation, additional construction, or use that is not in accord with the approved POD, shall not be initiated without the prior written approval of the Authorized Officer. A copy of the complete right-of-way grant, including all stipulations and approved POD, shall be made available on the right-of-way during construction, operation, and termination to the Authorized Officer. Noncompliance with the above will be grounds for immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.

4. Holder may not construct or make new access roads or travel cross-county by vehicle to reach the grant area unless prior written approval is given by the Authorized Officer.

5. The holder shall protect all survey monuments found within the right-of-way. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the holder shall immediately report the incident, in writing, to the Authorized Officer and the respective installing authority, if known. Where General Land Office or Bureau of Land Management right-of-way monuments or references are obliterated during operations, the holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands in the United States, latest edition. The holder shall record such survey in the appropriate county and send a copy to the Authorized Officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the holder shall be responsible for the survey cost.

6. The holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.

7. All design, material, and construction; and operation, maintenance, and termination practices shall be in accordance with safe and proven engineering practices.

8. The Holder shall provide the Authorized Officer with data in a format compatible with the Bureau's Arc-Info Geographic Information System to accurately locate and identify the right-of-way, within 90 days of construction completion. Acceptable data formats are: (1) Corrected Global Positioning System files with sub-meter accuracy or better, in NAD 83; (2) A Shapefile or Geodatabase. Data may be submitted in any of the following formats: (1) ARCInfo export files on a CD ROM or DVD. Compressed or ZIPed data must include a copy of the UNZIP.EXE file on the disk. All data shall include metadata for each coverage, and conform to the Content Standards for Digital Geospatial Metadata Federal Geographic Data Committee standards.

9. The Holder must submit an application to **amend (SF-299) for any** substantial deviation to this ROW. Per 43 CFR 2801.5, *"substantial deviation means a change in the authorized location or use which requires: (1) construction or use outside the boundaries of the right-of-way, or (2) any change from, or modification of, the authorized use. Examples of substantial deviation include: adding equipment, overhead or underground lines, pipelines, structures, or other facilities not included in the original grant."* Additional NEPA analysis may need to be conducted prior to the BLM's decision to amend the grant as applied for.

10. Hereinafter, holder means any party granted this right-of-way and/or temporary use permit, its agents, contractors, representatives, or other persons directed by holder to construct, maintain, repair, restore, relinquish, abandon, modify, rehabilitate, or terminate this right-of-way, and holder's successors, or assigns.

Public Health & Safety Environmental Protection

11. The holder agrees to indemnify and hold harmless the United States for any and all liability, including injury to persons or damage of property, which may result directly from the use permitted.

12. The Authorized Officer may suspend or terminate in whole, or in part, any notice to proceed which has been issued when, in his/her judgment, unforeseen conditions arise which result in the approved terms and conditions being inadequate to protect the public health and safety or to protect the environment.

13. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 U.S.C. 2601 et. seq. (1982) with regards to any toxic substances that are used, generated by, or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 and 40 CFR, Part 302 shall be reported to the BLM Authorized Officer and the National Response Center at 687-9485 or 888-331-6337 (NDEP), as required by the Comprehensive Environmental Response, Compensation, and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

14. During the period of May 1 through October 1 of each year, holder should consider using spark arresters on vehicles and equipment in the project area, due to the potential for fire ignition from project related activities. This includes emission of hot carbon particles from diesel powered equipment, improperly equipped or poorly operating exhaust systems on gas powered vehicles and direct contact of wildland fuels with catalytic converters. Individuals, groups, businesses or corporations found responsible for the ignition of a wildfire may be held liable for the costs associated with the suppression of that fire.

15. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901 et seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

Cultural

16. Any cultural or paleontological resource (historic or prehistoric site or object) or Native American human remains, funerary item, sacred object, or objects of cultural patrimony discovered by the permit holder, or any person working on their behalf, during the course of activities on Federal land, shall be immediately reported to the BLM Authorized Officer by telephone, with written confirmation. The permit holder shall suspend all operations 100 meters within the discovery and appropriately protect the discovery until an evaluation has been made by the BLM Authorized Officer.

    a. If Native American human remains, funerary objects, sacred objects, or objects of cultural patrimony are encountered during an undertaking involving BLM managed lands, the parties will comply with the Native American graves Protection and Repatriation Act (NAGPRA) and its implementing regulations at 43 CFR Part 10, Subpart B. Human remains and associated grave goods on private land will be handled according to the provisions of Nevada statute NRS 383.

    b. For cultural resources other than Native American human remains, funerary item, sacred object, or objects of cultural patrimony, this evaluation will determine the significance of the discovery and what mitigation measures are necessary to allow activities to proceed. The holder is responsible for the cost of evaluation and mitigation. Any decision on treatment and/or mitigation will be made by the BLM Authorized Officer after consulting with the permit holder. Operations may resume only upon written authorization to proceed from the BLM Authorized Officer.

Vegetation/Weeds (Prevention)

17. Where appropriate, vehicles and heavy equipment used for the completion, maintenance, inspection, or monitoring of ground disturbing activities; for emergency fire suppression; or for authorized off-road driving will be free of soil and debris capable of transporting weed propagules. Vehicles and equipment will be cleaned with power or high pressure equipment prior to entering or leaving the work site or project area. Special emphasis will be applied to axles, frames, cross members, motor mounts, on and underneath steps, running boards, and front bumper/brush guard assemblies. Vehicle cabs will be swept out and refuse will be disposed of in waste receptacles. Cleaning sites will be recorded using global positioning systems or other mutually acceptable equipment and provided to the Ely District Office Weed Coordinator or designated contact person.

18. Prior to entry of vehicles and equipment to a planned disturbance area, a weed scientist or qualified biologist will identify and flag areas of concern. The flagging will alert personnel or participants to avoid areas of concern.

19. Monitoring will be conducted (by the proponent) for a period no shorter than the life of the permit or until bond release and monitoring reports will be provided to the Ely District Office. If the presence and/or spread of noxious weeds is noted, appropriate weed control procedures will be

determined in consultation with Ely District Office personnel and will be in compliance with the appropriate BLM Handbook sections and applicable laws and regulations. All weed control efforts on BLM-administered lands will be in compliance with BLM Handbook H-9011, H-9011-1 Chemical Pest Control, H-9014 Use of Biological Control Agents of Pests on Public Lands, and H-9015 Integrated Pest Management. Submission of Pesticide Use Proposals and Pesticide Application Records will be required.

20. Prior to entering public lands, the contractor, operator, or permit holder will provide information and training regarding noxious weed management and identification to all personnel who will be affiliated with the implementation of the project. The importance of preventing the spread of weeds to un-infested areas and importance of controlling existing populations of weeds will be explained.

21. Keep removal and disturbance of vegetation to a minimum through construction site management (e.g., using previously disturbed areas and existing easements, limiting equipment/materials storage and staging area sites, etc.).

22. Utility companies will manage vegetation in their rights-of-way for safe and reliable operation while maintaining vegetation and wildlife habitat.

Vegetation/Weeds (Reclamation)

23. Where appropriate, inspect source sites such as borrow pits, fill sources, or gravel pits used to supply inorganic materials used for construction, maintenance, or reclamation to ensure they are free of plant species listed on the Nevada noxious weed list or specifically identified by the Ely District Office. Inspections will be conducted by a weed scientist or qualified biologist.

24. To minimize the transport of soil-borne noxious weed seeds, roots, or rhizomes, infested soils or materials will not be moved and redistributed on weed-free or relatively weed-free areas. In areas where infestations are identified or noted and infested soils, rock, or overburden must be moved, these materials will be salvaged and stockpiled adjacent to the area from which they were stripped. Appropriate measures will be taken to minimize wind and water erosion of these stockpiles. During reclamation, the materials will be returned to the area from which they were stripped.

25. For soil disturbing actions which will require reclamation, salvage and stockpile all available growth medium prior to surface disturbances. Seed stockpiles if they are to be left for more than one growing season. Re-contour all disturbance areas to blend as nearly as possible with the natural topography prior to re-vegetation. Rip all compacted portions of the disturbance to an appropriate depth based on site characteristics. Establish an adequate seed bed to provide good seed-to-soil contact.

26. Keep removal and disturbance of vegetation to a minimum through construction site management (e.g. using previously disturbed areas and existing easements, limiting equipment/materials storage and staging area sites, etc.)

27. Generally, conduct reclamation with native seeds that are representative of the indigenous species present in the adjacent habitat. Document rationale for potential seeding with selected nonnative species. Possible exceptions would include use of nonnative species for a temporary cover crop to out-compete weeds. In all cases, ensure seed mixes are approved by the BLM Authorized Officer prior to planting.

28. Certify that all interim and final seed mixes, hay, straw, and hay/straw products are free of plant species listed on the Nevada noxious weed list (Certification could be presenting tag labels, bag label, or other means of certification of seed age and seed mix).

29. Re-spread weed-free vegetation removed from the right-of-way to provide protection, nutrient recycling, and seed source.

30. Restoration requirements include reshaping, re-contouring, and/or resurfacing with topsoil, installation of water bars, and seeding on the contour. Removal of structures such as culverts, concrete pads, cattle guards, and signs would usually be required. Fertilization and/or fencing of the disturbance may be required. Additional erosion control measures (e.g., fiber matting and barriers) to discourage road travel may be required.

31. An area is considered to be satisfactorily reclaimed when all disturbed areas have been re-contoured to blend with the natural topography, erosion has been stabilized, and an acceptable vegetative cover has been established. Use the Nevada Guidelines for Successful Revegetation prepared by the Nevada Division of Environmental Protection, the BLM, and the U.S. Department of Agriculture Forest Service (or most current revision or replacement of this document) to determine if revegetation is successful.

32. No noxious weeds will be allowed on the site at the time of reclamation release. Any noxious weeds that become established will be controlled.

Wildlife

33. In accordance with the Migratory Bird Treaty Act (MBTA), take of migratory birds is not authorized. Therefore, actions which have the potential to affect migratory bird species of concern must be minimized or avoided. Most migratory birds nest between April and July, dates will be adjusted for the species present in the area and the specific proposed activity. Activities may not occur during this period without special authorization, and only after breeding bird surveys have been conducted by a qualified biologist. Authorization for construction during this breeding period would be contingent on the findings of the survey, within seven days of the activity. Nests found will be protected by appropriate buffers agreed to by the BLM wildlife team.

34. Biological surveys will be required as agreed on by the BLM wildlife team.

Transfer of Federal Ownership/Relinquishment/Assignment

35. In accordance with federal regulations in 43 CFR 2807.21 any proposed transfer of any right or interest in the right-of-way grant shall be filed with the BLM Authorized Officer. An application for assignment shall be accompanied by a showing of qualifications of the Assignee. The assignment shall be supported by a stipulation that the Assignee agrees to comply with and to be bound by the terms and conditions of the grant to be assigned. No assignment shall be recognized unless and until it is approved in writing by the Authorized Officer.

36. In the event that the public land underlying the right-of-way encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part 2800, including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or

assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

37. Prior to termination of the right-of-way, the holder shall contact the Authorized Officer to arrange a pre-termination conference. This conference will be held to review the termination provisions of the grant.

SPECIAL STIPULATIONS

38. Where the facilities authorized in this grant are for the purpose of executing a state water right, the design and placement of the facility and use of the water shall follow the limits and conditions set by the State Engineer at the time this grant is issued. The Holder shall provide a copy of the State water right to the Authorized Officer prior to issuance of this grant. The Holder shall notify BLM as to future changes of the State water right whereupon BLM will determine if those changes result in substantial deviation to the existing ROW.

On behalf of Southern Nevada Water Authority, I have reviewed the above stipulations for the Well, Hydroplant and Irrigation Pipeline ROW N-057343 and agree to follow them.

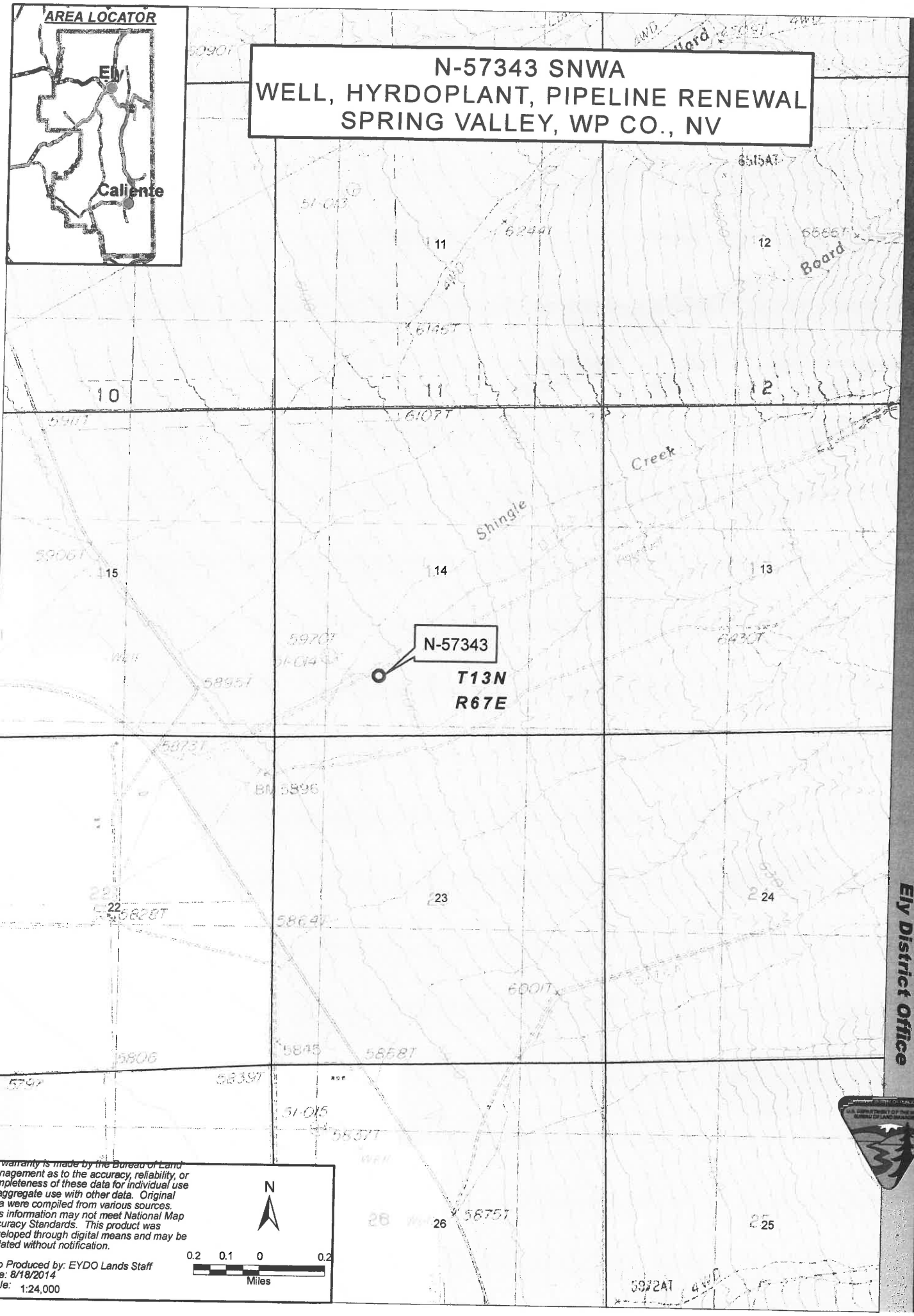
_____ _____

Authorized Signature
John J. Entsminger, General Manager

Date

John J. Entsminger
Printed Name

N-57343 SNWA
WELL, HYRDOPLANT, PIPELINE RENEWAL
SPRING VALLEY, WP CO., NV



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

Map Produced by: EYDO Lands Staff
Date: 8/18/2014
Scale: 1:24,000

BLM

Ely District Office

SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
AGENDA ITEM

January 15, 2015

Subject: Update on Water Resources	**Director's Backup**
Petitioner: Gregory J. Walch, General Counsel	
Recommendations: That the Board of Directors receive an update from staff on water resources including, but not limited to, drought conditions in the Colorado River Basin, the results of the implementation of the Authority's Water Resource and Conservation Plans, activities on the Colorado River, the development of in-state water resources, and the status of the third intake project.	

Fiscal Impact:
None by approval of the above recommendation.

Background:
The Colorado River Basin has been experiencing a severe drought that began in 2000. The severity of these conditions has become increasingly evident in lake levels along the lower Colorado River Basin, where major reservoirs such as Lake Powell and Lake Mead are experiencing some of the lowest water levels since their initial filling.

The nature of the drought in the Colorado River Basin has direct effects on water resources and future planning. The drought has prompted communities to launch major conservation initiatives to reduce water use among citizens and businesses, and has resulted in the development and implementation of the Authority's Water Resource and Conservation Plans.

In May 2005, the Board of Directors approved a project for design and construction of a third intake in Lake Mead with the primary objective of protecting southern Nevada's water supply from significant loss of system capacity resulting from a continuing decline in lake elevation. The project design and environmental approvals were completed by 2007. Construction began on the project in March 2008.

This agenda item provides for an update from staff on the drought, the results of the implementation of the Authority's Water Resource and Conservation Plans, activities on the Colorado River, the development of in-state water resources, and the status of the third intake project.

The office of the General Counsel has reviewed and approved this agenda item.

Respectfully submitted:

John J. Entsminger

John J. Entsminger, General Manager
JJE:PDS:GJW:td

AGENDA ITEM # 6