



BSDW-Year in Review

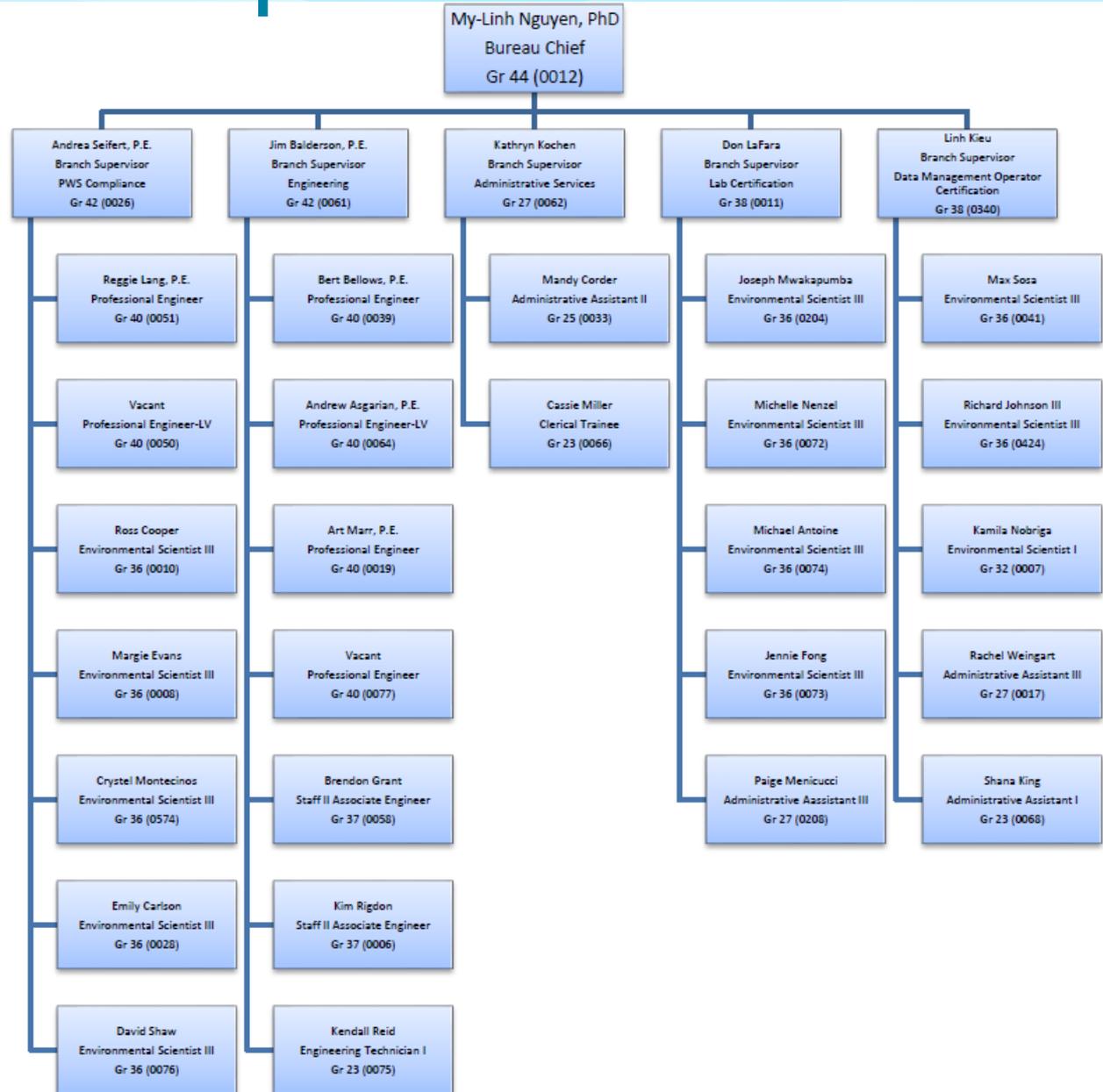
2018 NvRWA Conference, 3/15/2018

Andrea Seifert, PWS Compliance Supervisor

2017 High Priority Activities

- Personnel Changes/Legislative Additions
- Webpage Updates
- Audits
- Operator Certification Regulation Revisions
- Revised Total Coliform Rule Assessments
- Compliance and Enforcement

Personnel Updates



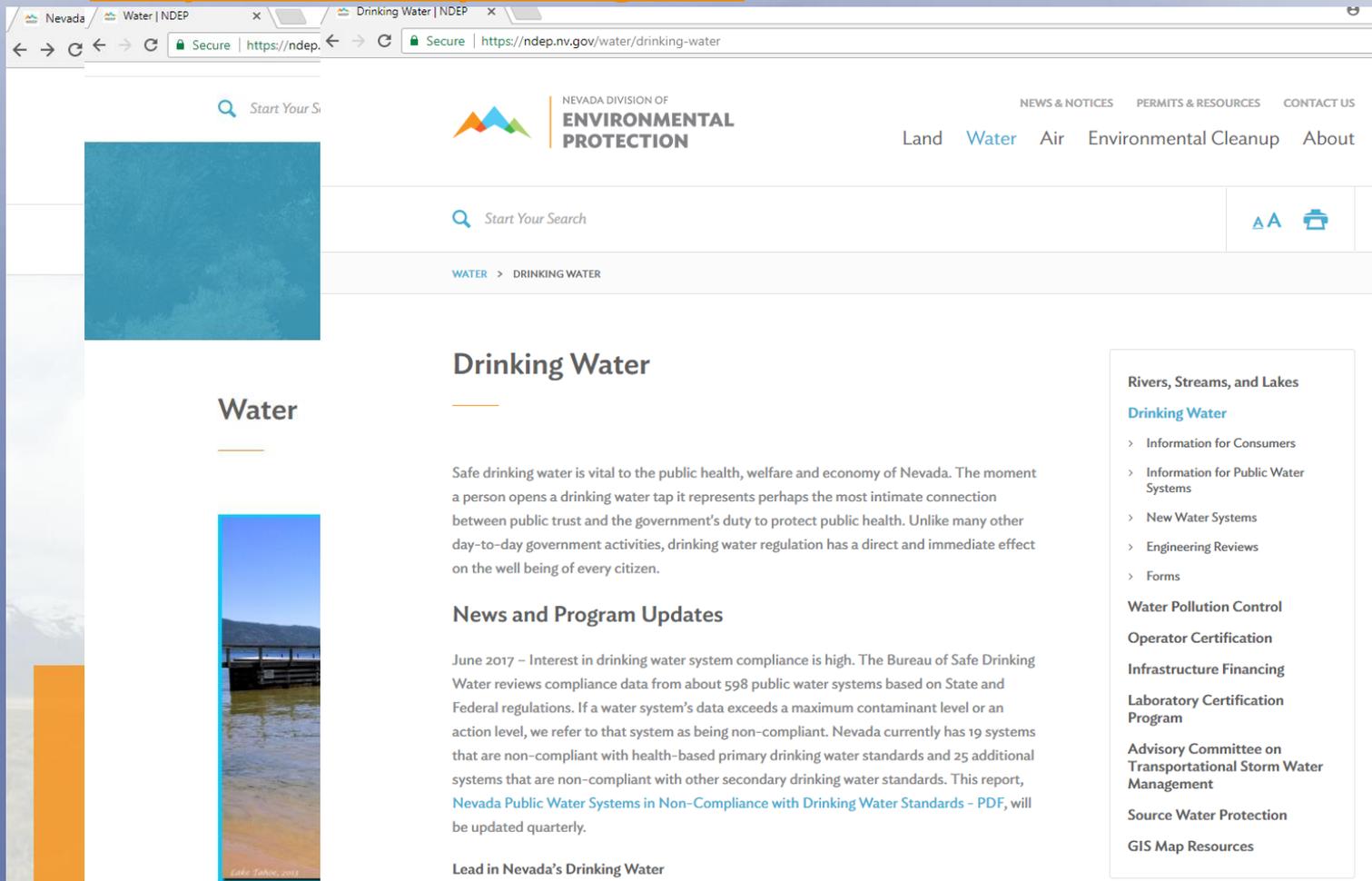
Summer 2017

New NDEP Webpage

- Goal: To have a more user-friendly and informative web page.
 - Operator Certification Program,
 - Source Water Protection
 - Laboratory Certification Program
 - Consumers (Private well owners, testing, FAQs on Lead, etc.) and for PWSs.
- Posting compliance data and Lead result
 - Improve transparency
 - Annual Lead Results
 - Quarterly postings of MCL, TT, SMCL, violations and Lead and Copper ALE

Summer 2017 New NDEP Webpage

<https://ndep.nv.gov/>



The screenshot displays the NDEP website interface. At the top, there are browser tabs for 'Nevada', 'Water | NDEP', and 'Drinking Water | NDEP'. The address bar shows the URL 'https://ndep.nv.gov/water/drinking-water'. The main header includes the NDEP logo (Nevada Division of Environmental Protection) and navigation links for 'NEWS & NOTICES', 'PERMITS & RESOURCES', and 'CONTACT US'. Below the header, there are search bars and a secondary navigation menu with links for 'Land', 'Water', 'Air', 'Environmental Cleanup', and 'About'. The main content area features a large blue square on the left, a 'Water' section with a vertical image of a lake, and a 'Drinking Water' section with a paragraph of text and a 'News and Program Updates' section. A right-hand sidebar contains a list of links including 'Rivers, Streams, and Lakes', 'Drinking Water', 'Information for Consumers', 'Information for Public Water Systems', 'New Water Systems', 'Engineering Reviews', 'Forms', 'Water Pollution Control Operator Certification', 'Infrastructure Financing', 'Laboratory Certification Program', 'Advisory Committee on Transportational Storm Water Management', 'Source Water Protection', and 'GIS Map Resources'.

Start Your Search

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

NEWS & NOTICES PERMITS & RESOURCES CONTACT US

Land Water Air Environmental Cleanup About

Start Your Search

WATER > DRINKING WATER

Drinking Water

Safe drinking water is vital to the public health, welfare and economy of Nevada. The moment a person opens a drinking water tap it represents perhaps the most intimate connection between public trust and the government's duty to protect public health. Unlike many other day-to-day government activities, drinking water regulation has a direct and immediate effect on the well being of every citizen.

News and Program Updates

June 2017 – Interest in drinking water system compliance is high. The Bureau of Safe Drinking Water reviews compliance data from about 598 public water systems based on State and Federal regulations. If a water system's data exceeds a maximum contaminant level or an action level, we refer to that system as being non-compliant. Nevada currently has 19 systems that are non-compliant with health-based primary drinking water standards and 25 additional systems that are non-compliant with other secondary drinking water standards. This report, [Nevada Public Water Systems in Non-Compliance with Drinking Water Standards - PDF](#), will be updated quarterly.

Lead in Nevada's Drinking Water

Rivers, Streams, and Lakes

[Drinking Water](#)

- > Information for Consumers
- > Information for Public Water Systems
- > New Water Systems
- > Engineering Reviews
- > Forms

Water Pollution Control Operator Certification

Infrastructure Financing

Laboratory Certification Program

Advisory Committee on Transportational Storm Water Management

Source Water Protection

GIS Map Resources

BSDW Webpage

Posting compliance data and Lead result

- Improve transparency
- Annual Lead Results
- Quarterly postings of MCL, TT, SMCL, violations and Lead and Copper ALE

Drinking Water

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Lead in Nevada's Drinking Water

Since February 2016, the issue of lead in drinking water gained a lot of national attention. The Nevada Division of Environmental Protection (NDEP) has developed a [Lead Frequently Asked Questions \(FAQs\)](#) page regarding lead and Nevada's efforts to keep our drinking water safe. NDEP Bureau of Safe Drinking Water has also developed a table listing current lead compliance data for public water systems in Nevada.

[Current lead compliance data \(Jun2017\) \(pdf\)](#)

Specific water system information can also be accessed through the NDEP's [Drinking Water Watch website](#). Please use Internet Explorer to access this site. Your water system will be listed on your water bill. If you don't get a water bill (i.e. you live in an apartment), ask your housing manager for that information.

Please [contact us](#), (775) 687-9521, if you have any questions.

Rivers, Streams, and Lakes

Drinking Water

- > Information for Consumers
- > Information for Public Water Systems
- > New Water Systems
- > Engineering Reviews
- > Forms

Water Pollution Control

Operator Certification

Infrastructure Financing

Laboratory Certification Program

Advisory Committee on Transportational Storm Water Management

Source Water Protection

GIS Map Resources

I want to...



Featured Resources



Happening Now

Daylight Saving Time begins Sunday, March 11th!

Lead Compliance Data for Nevada Public Water Systems

The table below shows the 90th percentile Lead level for three-hundred-thirty-four (334) public water systems (PWSs) that are currently subject to the Lead and Copper Rule. The USEPA sets the 90th percentile Action Level (AL) for Lead at 0.015 mg/L. If a water system's Lead concentrations exceed the AL in more than 10% of the samples, the system must undertake additional actions to investigate the source and control corrosion in the pipes of the distribution system. The system must also inform the public about the steps they should take to protect their health (Public Education) and may have to replace lead service lines under their control.

Acronyms:

AL Action Level for Lead (0.015 mg/L at 90th percentile)
 C Community public water system
 mg/L Milligrams per liter
 NTNC Non-Transient, Non-Community public water system
 PWS Public Water System

Data query date: 5/24/2017.
 Note: Some systems submitted results that are being reviewed by staff prior to data entry.

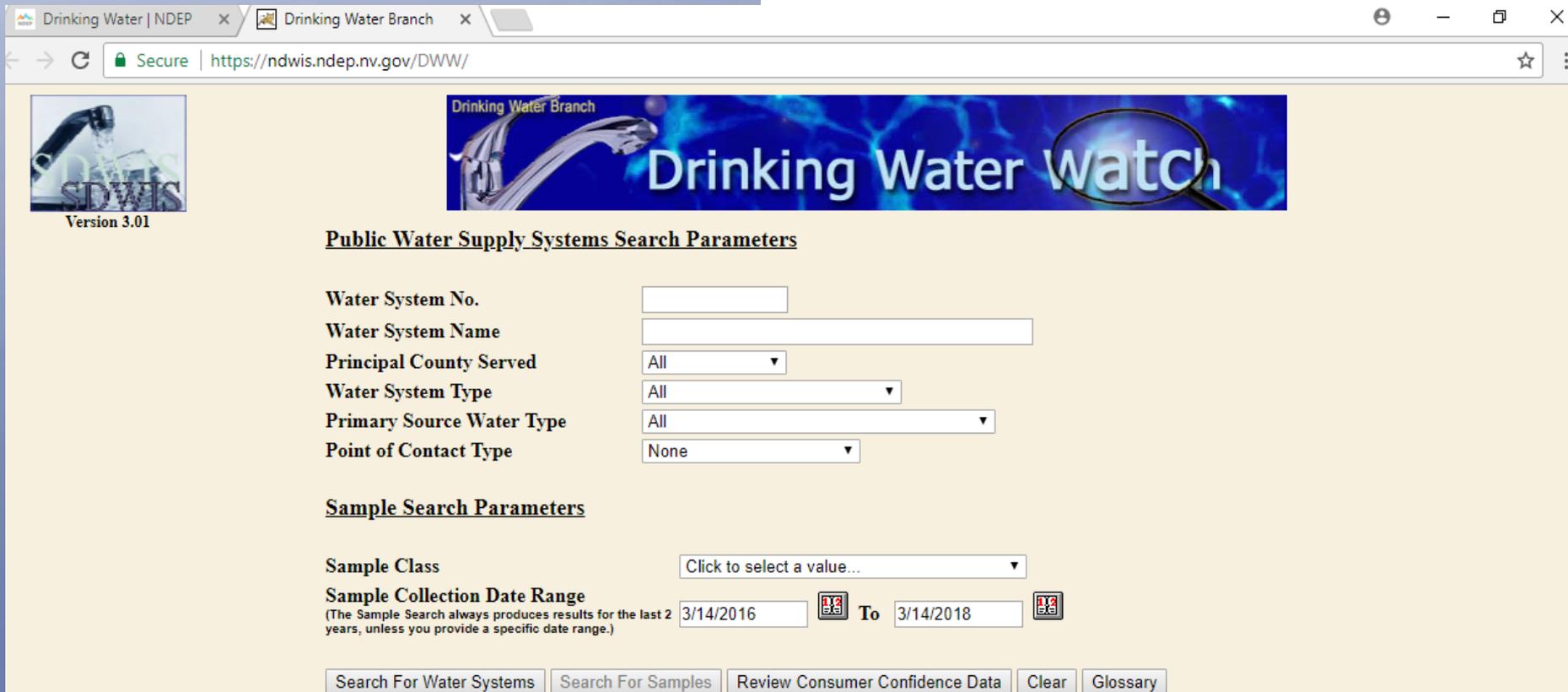
COUNTY	PWS ID	PWS NAME	PWS FED TYPE	SAMPLE FREQUENCY	SAMPLE START DATE	SAMPLE COUNT	LEAD 90TH PERCENTILE, MG/L	UPDATED MONITORING FREQUENCY	NEXT SAMPLE DUE
CARSON CITY	NV0000015	CARSON CITY PUBLIC WORKS	C	3-YEAR	9/20/2014	30	0.005	3-YEAR	2017
CARSON CITY	NV0000017	COTTONWOOD MHP	C	9-YEAR	9/30/2016	5	0.008	9-YEAR	2025
CARSON CITY	NV0004084	STEWART COMPLEX	NTNC	3-YEAR	9/8/2011	5	0.001	3-YEAR	2017
CARSON CITY	NV0000028	TERRACE GARDEN APARTMENTS	C	3-YEAR	7/21/2015	5	0.002	3-YEAR	2018
CHURCHILL	NV0003068	CARSON RIVER ESTATES	C	3-YEAR	9/29/2014	5	0	3-YEAR	2017
CHURCHILL	NV0000045	FALLON CITY OF	C	3-YEAR	8/5/2015	20	0.003	3-YEAR	2018
CHURCHILL	NV0000350	FALLON NAVAL AIR STATION	C	3-YEAR	9/24/2014	10	0	9-YEAR	2023
CHURCHILL	NV0002024	KENNAMETAL INC	NTNC	9-YEAR	9/8/2014	5	0.002	9-YEAR	2023
CHURCHILL	NV0002541	NAS CENTROID EW RANGE	NTNC	3-YEAR	7/22/2008	5	0	3-YEAR	2017
CHURCHILL	NV0000903	NEW MILLENNIUM BUILDING SYSTEMS, LLC	NTNC	3-YEAR	9/24/2012	3	0	9-YEAR	2021
CHURCHILL	NV0000052	OK MOBILE HOME PARK	C	3-YEAR	7/13/2009	5	0	9-YEAR	2018
CHURCHILL	NV0000303	OLD RIVER WATER COMPANY	C	3-YEAR	7/23/2009	5	0	9-YEAR	2018
CHURCHILL	NV0000054	R AND M MOBILE HOME PARK	C	3-YEAR	8/4/2008	10	0	9-YEAR	2017
CHURCHILL	NV0002023	SAGE VALLEY MHP	C	3-YEAR	9/24/2009	5	0	9-YEAR	2018
CHURCHILL	NV0000406	SAND CREEK	C	3-YEAR	9/16/2014	10	0.001	3-YEAR	2017
CHURCHILL	NV0000055	TOLAS WATERWORKS CO OP	C	3-YEAR	8/16/2016	10	0.009	3-YEAR	2019
CHURCHILL	NV0000058	WILDES MANOR	C	3-YEAR	6/23/2008	5	0.004	3-YEAR	2017
CLARK	NV0000379	APEX REGIONAL WASTE MGMT CENTER	NTNC	6-MONTH	6/20/2013	5	0	3-YEAR	2017
CLARK	NV0001117	BELLAGIO RESORT AND CASINO	NTNC	ANNUAL	6/22/2016	20	0.004	ANNUAL	2017
CLARK	NV0000147	BERMUDA PALMS MANAGEMENT LLC	C	3-YEAR	9/26/2011	5	0.008	3-YEAR	2017

PWSID	PWS NAME	County	PWS TYPE	Population	SMCL Standard	PWS Monitoring Value
NV0004110	New Paradise MB Church	Clark	TNC	25	Color 15 CU	40 CU
					Iron 0.6 mg/L	0.6 mg/L
					Magnesium 150 mg/L	170 mg/L
					Sulfate 500 mg/L	760 mg/L
					TDS 1000 mg/L	1300 mg/L
NV0004067	Northwest Academy	Nye	NTNC	50	Fluoride 2.0 mg/L	2.8 mg/L
NV0000872	Sage Valley RV Park	Churchill	TNC	25	Manganese 0.1 mg/L	2.4 mg/L
NV0002124	Spring Valley State Park	Lincoln	TNC	386	Manganese 0.1 mg/L	0.2 mg/L
NV0000123	Sunrise Mountain TP	Clark	C	100	TDS 1000 mg/L	1260 mg/L
NV0000055	Tolas Waterworks Co-op	Churchill	C	250	Odor 3 TON	4 TON
NV0001145	US Ecology	Nye	NTNC	90	Fluoride 2.0 mg/L	3.1 mg/L
NV0002556	VFW Pahrump Post 10054	Nye	TNC	25	Sulfate 500 mg/L	1020 mg/L
					TDS 1000 mg/L	1360 mg/L
NV0000922	Ward Charcoal Owens State Park	White Pine	TNC	25	Iron 0.6 mg/L	0.9 mg/L
NV0000793	Washoe Lake State Park	Washoe	TNC	467	Iron 0.6 mg/L	1.5 mg/L
					Manganese 0.1 mg/L	0.3 mg/L
NV0000318	Washoe Lake State Park North Boat Ramp	Washoe	TNC	25	Iron 0.6 mg/L	1.8 mg/L
					Manganese 0.1 mg/L	0.2 mg/L

BSDW Webpage

Drinking Water Watch

Specific water system information can also be accessed through the NDEP's [Drinking Water Watch website](#). Please use Internet Explorer to access this site. Your water system will be listed on your water bill. If you don't get a water bill (i.e. you live in an apartment), ask your housing manager for that information.



The screenshot shows a web browser window with two tabs: "Drinking Water | NDEP" and "Drinking Water Branch". The address bar shows a secure connection to <https://ndwis.ndep.nv.gov/DWW/>. The page features a header with a logo on the left and a banner on the right that says "Drinking Water Watch" with a magnifying glass icon. Below the banner is a search form with the following fields:

- Water System No.**:
- Water System Name**:
- Principal County Served**:
- Water System Type**:
- Primary Source Water Type**:
- Point of Contact Type**:

Below the search form is a section titled "Sample Search Parameters" with the following fields:

- Sample Class**:
- Sample Collection Date Range**: To

At the bottom of the page are several buttons: "Search For Water Systems", "Search For Samples", "Review Consumer Confidence Data", "Clear", and "Glossary".

[Click Here for the County Map of Nevada](#)

BSDW Audits

- Legislative Council Bureau
 - Draft Final Report
 - Will be required to implement corrections
- EPA
 - Final Report Expected in Spring
- Impacts to Regulated Community

Operator Certification Regulation Revisions

- **Summary of Petition R-156-17: Operator Certification - BSDW**

1. **NAC 445A.6285** clarifies NDEP language to approve certified operator for temporary relief of person in responsible charge;
2. **NAC 445A.629** clarifies that any public water must be classified for distribution and treatment using the classification point system;
3. **NAC 445A.632** revises language to be consistent with the passing score set by the testing organization;
4. **NAC 445A.633** revises requirements for education and experience for applicants to be certified by the program;
5. **NAC 445A.639** increase the number of hours of continuing education for an operator of certain certificates;
6. **NAC 445A.640** revises the requirements of continuing education for operators who hold multiple certificates;
7. **NAC 445A.651** increase the fees charged by the Division for issuing and renewing certifications;

Operator Certification Regulation Revisions

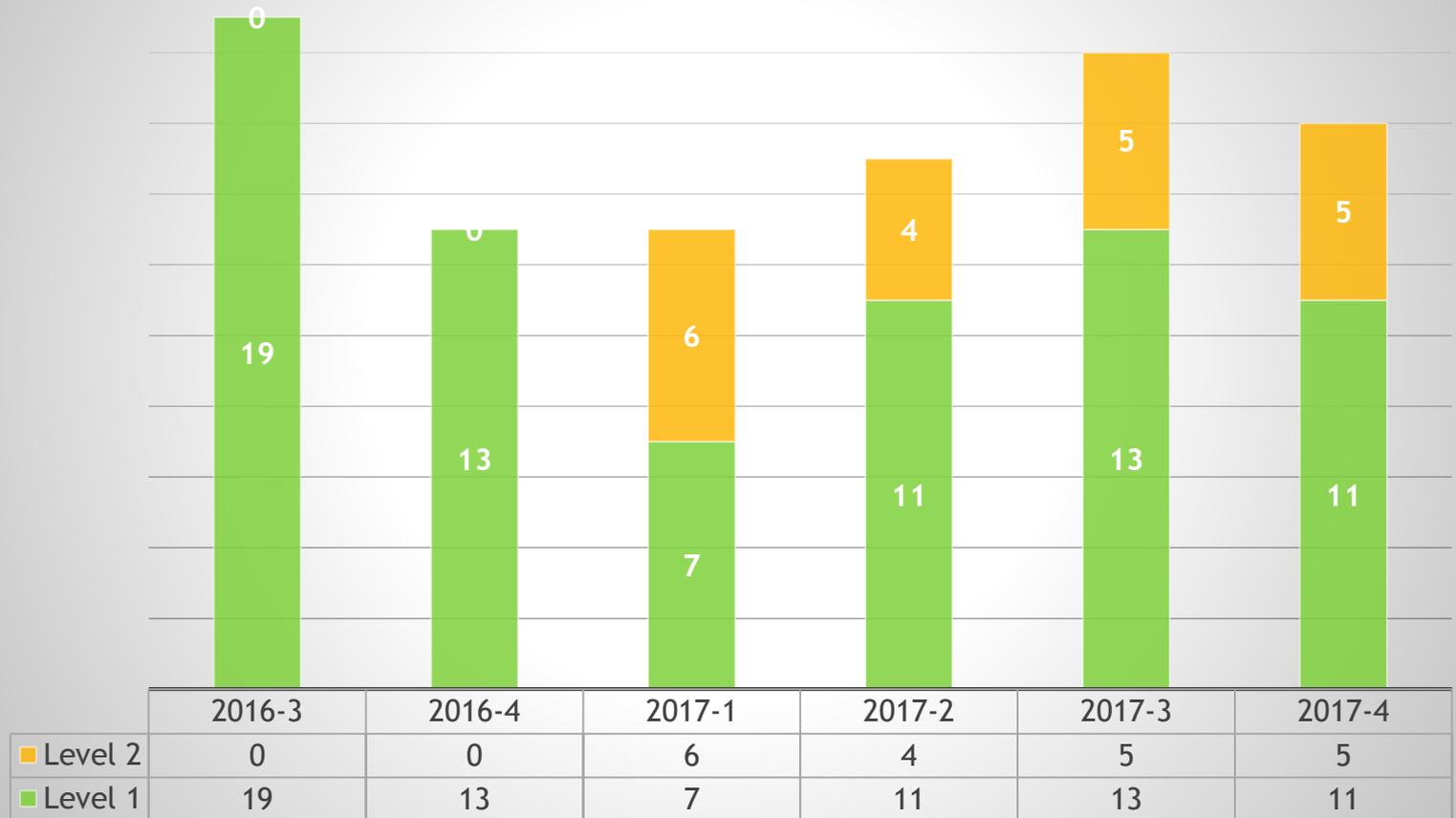
- Approved by the State Environmental Commission
 - February 21, 2018
 - Legislative Committee, April 2018
- Effective Dates
 - Most of the regulatory updates will be come effective July 1st 2018
 - CEU requirements effective with 2019 CEU renewal
- Stay informed
 - Join Max Sosa at 4:00 PM for more detail
 - <https://ndep.nv.gov/water/operator-certification/operators-forum>

Revised Total Coliform Rule

- Continued Training from EPA to State Staff
- Updates to Coliform Site Sampling Plans
 - Routine Procedure
 - Expect during Sanitary Surveys
- Seasonal Start-up Certifications
- Assessments

Revised Total Coliform Rule Coliform Assessments

Coliform Assessments



Revised Total Coliform Rule Coliform Assessments

Level 1

Top 5 Sanitary Defects

1. Sample Technique
2. Sample Location
3. Disinfection After Replacement/Repair
4. Cross Connection
5. Treatment Maintenance

Level 2

Top 5 Sanitary Defects

1. Sample Technique
2. Cross connection
3. Operation and Maintenance-Treatment/Disinfection
4. Wellhead Vent Pipe
5. Well Casing Cracks/Holes

PRECAUTIONARY BOIL WATER NOTICE

Please keep BSDW staff informed of progress until the problem is resolved. We often get calls from concerned water customers, and we want to provide accurate information.

NAC 445A.67265 Duties after loss of pressure in distribution system. ([NRS445A.860](#)) Except as otherwise authorized by the Health Division, if any part of a distribution system loses all pressure, the supplier of water shall, before placing that part of the distribution system back into service:

1. Inform the customers of the public water system within the affected portion of its area of service of the need to boil their water before consumption.

2. Collect, on 2 or more consecutive days, samples of water from that part of the distribution system which indicate that the presence of any coliform bacteria complies with primary standards.

(Added to NAC by Bd. of Health, eff. 2-20-97)

NAC 445A.6727 Requirements after cleaning or repair of water main. ([NRS 445A.860](#))

1. Except as otherwise provided in subsection 2, after a water main is cleaned or repaired, and before the water main is placed back into service:

- (a) The water main must be disinfected in accordance with *American Water Works Association Standard C651*, as adopted by reference in [NAC 445A.6663](#). The disposal of any spent chlorine solutions must be coordinated with the Bureau of Water Pollution Control of the Division. Phone: 775-687-9418.

- (b) An analysis of the water main which indicates that it meets primary standards for coliform bacteria must be obtained and reported to the Division or the appropriate district board of health.

2. Compliance with subsection 1 is not required if a water main is kept full of water under continuous pressure while it is being repaired. (Added to NAC by Bd. of Health, eff. 2-20-97; A by Environmental Comm'n by R194-08, 10-27-2009)

Revised 09/07/2017

Compliance & Enforcement

- Small Systems Action Plan
 - Compliance assistance and enforcement actions taken to return systems to compliance.
 - Completed V1.0
 - Arsenic
 - School Non-Compliance
 - Working with EPA on developing V2.0

Enforcement Targeting Tool



Formal Enforcement Actions

General Offense	Administrative Fine	Non-Monetary Penalties	Civil Penalties	Closure Date
Treatment Plant Operations & Maintenance	\$20,625	Training, O&M Updates	N/A	4/29/2013
Construction without Permit- Source Not On-line	\$0	Training	N/A	6/9/2015
Construction without Permit, After Warning	\$1,375	Training	N/A	6/30/2015
Treatment Plant Operations & Maintenance	\$7,612.50	Training, O&M Updates	N/A	11/2/2015
Construction without Permit- Source On-line	\$5,025.00	N/A	N/A	5/16/2016
Arsenic Non-Compliance, Treatment O&M	\$2,550	N/A	N/A	8/1/2016
Arsenic Non-Compliance, Treatment O&M	\$3,150	N/A	N/A	12/5/2016
Construction without Permit, Repeat Offense	\$5,500	N/A	N/A	12/20/2016
Construction without Permit	\$0	Management Training	N/A	10/25/2016
Arsenic Rule Non-Compliance-Default Judgment, Churchill County Court	N/A	Contempt of Court- Incarceration, January 2018	\$458,900	Pending
Construction without Permit	\$41,625	N/A	N/A	8/14/2017
Arsenic Non-Compliance	\$2,250	N/A	N/A	9/6/2017
Arsenic Non-Compliance, Failure to comply with AOC	\$20,253	N/A	N/A	9/25/2017
Arsenic Non-Compliance	\$1,950	N/A	N/A	1/24/2018



Moving Forward

2018 EXPECTATIONS

2018 Expectations

- Operator Certification Guidance
- Online reporting and preparing for SDWIS Prime
- Found Systems: BSDW continues to work with TA provider to help new systems with proper monitoring and permitting.
- Engineering Regulation Revision
- Lead and Copper Reporting and Sample Plans
- Sanitary Survey Deficiency Follow-up

Engineering Regulation Revision

- The first meeting was held on December 18, 2017
- Two goals of the regulation revision are:
 - Identify and resolve priority issues in engineering review that may lead to clarification of engineering regulations.
 - Update engineering regulations if/as needed in order to improve review efficiency and timeliness while ensuring protection of public health and safety.
- Proposed changes to NAC 445A are the following:
 - NAC 445A.65845 (Distribution Definition)
 - NAC 445A.66375 (Service Connection)
 - NAC 445A.6671 (Water Project Commencement and Completion Time Period)
 - NAC 445A.66085 (Lead Free Definition)
 - NAC 445.6663, .6685, .67125, .67145 (Adoption of Standards)
 - NAC 445A.6693, .67155, .67165, .6717 (Separations and Crossings)
 - NAC 445A.6719, .67215 (Backflow Prevention)
- BSDW is making every effort to make the May SEC meeting; however, a special meeting may be convened in July or August.

Lead and Copper Rule

- Sample Schedule Review & Revisions
 - Occurred in 2017
 - Some systems taken off 9-year monitoring
- Sample Plans
 - Need to be kept on file
 - Need to preserve history of materials evaluations and site selection
- Reporting
 - PWS Responsible for Calculating 90th Percentile
 - Reporting Forms need to be submitted
 - Contact BSDW/Health District if high levels
- Learn More
 - Ross Cooper's presentation at 11:00 AM

Sanitary Surveys Deficiencies Top Ten

- Storage Protection
- O&M Plans
- Coliform Plans
- Cross Connection Control Plans
- Storage Overflow Pipe
- Backflow Protection
- Storage Tank Vents
- Emergency Response Plan
- Wells Watertight
- Well Vent

Storage Protection



O&M and Coliform Plans



NEVADA DIVISION OF
ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

Total Coliform Sampling Plan

I. GENERAL INFORMATION					
A. PWS Information					
PWSID:	NV000				
PWS Name:					
PWS Address:					
City:		State:	NV	Zip:	
E. Population Calculation					
Avg. Daily Population:	Total Monthly Population:		C. System Type		
Community → _____	Community → _____		<input type="checkbox"/> Community → <input type="checkbox"/> NTNC → <input type="checkbox"/> TNC		
Non-Transient → _____	Non-Transient → _____		D. Water Sources		
Transient → _____	Transient (x-30) → _____		<input type="checkbox"/> Surface → <input type="checkbox"/> Spring or Well-UDI*		
Total Daily → _____	Total Monthly → _____		<input type="checkbox"/> Well (See III Below) → <input type="checkbox"/> Spring (See III Below)		
			<input type="checkbox"/> Purchased..... <input type="checkbox"/> Surface+ <input type="checkbox"/> Ground		

*UDI indicates a groundwater supply under the direct influence of surface water.

The water system provides water from: Wells Interties Pumps (# of each) ... It IS IS NOT disinfected. **Note:** For each Coliform sample on an NTNC or CWS, a corresponding Chlorine residual measurement must be taken and reported on the Disinfectant Residual Data Quarterly report. Include water storage facilities, making note of boosters, pressure zones, etc. If system does not disinfect, the requirement for a chlorine residual may be deleted.

Routine Sampling Requirements:

To ensure samples are representative of distribution water, all samplers should use only locations listed within this Total Coliform Rule sample siting plan.

Cross Connection Control Plan

Significant Deficiencies

FACILITY	CATEGORY	DESCRIPTION
Management	System Management and Operation	Systems must have and implement a current written cross-connection control program. NAC 445A.67185

Comments: A Cross Connection Control Plan (CCCP) must be developed and submitted to BSDW for review and approval. This plan serves as a program to protect the potable water system from potential back pressure and back siphoning events. Required backflow-prevention devices shall be identified along with their locations. Devices that are testable shall be tested once per year by a certified backflow tester. Testing records shall be maintained with water system records. The plan is to be implemented as soon as possible, but no later than 120 days from the date of this letter. The NvRWA is ready to assist with the development of this and other required manuals at no cost. I have included their contact information near the end of this report.

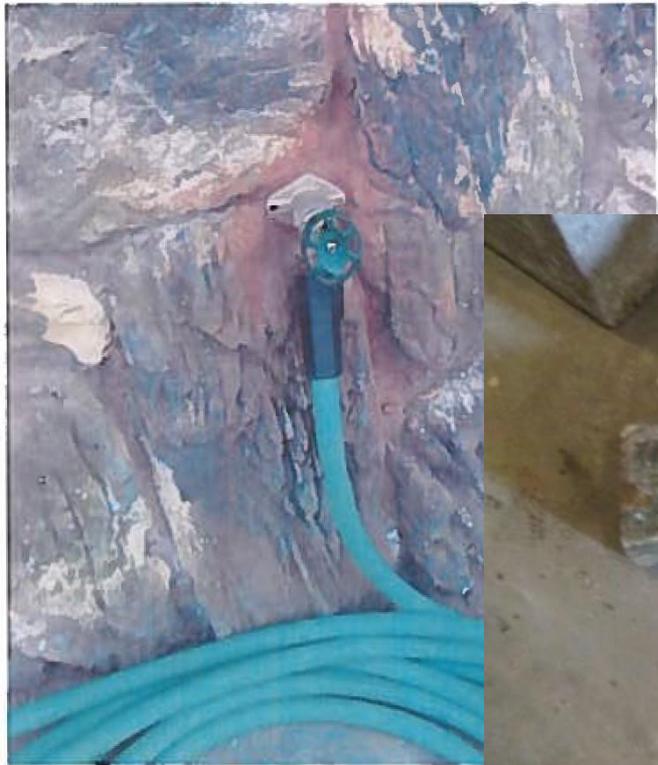
FACILITY	CATEGORY	DESCRIPTION
Management	System Management and Operation	Systems must have and implement a current written cross-connection control program. NAC 445A.67185

Comments: The December 19, 2011 Final Cross-Connection Control Survey Memorandum Report prepared by URS Group identified a number of recommendations and priorities for installation, repair, relocation, and replacement of backflow devices. Please provide an update on implementing the recommendations in the Memorandum.

Storage Overflow Pipe



Backflow Protection



Storage Tank Vents



Emergency Response Plan

FACILITY	CATEGORY	DESCRIPTION
Management	System Management and Operation	Systems must maintain a current emergency response plan that addresses source, production, storage and distribution. NAC 445A.66665

Comments: Prepare an Emergency Response Plan (ERP) for the water system. The ERP is an organized plan of predetermined activities for the water system to restore its services in an emergency, including any mechanical or electrical failure or a natural disaster. The ERP should contain procedures to be followed in the event of a water-line break including disinfection of the line and collection of coliform samples to verify that proper disinfection was performed (refer to NAC 445A.67265 and NAC 445A.6727). In the event that the well pump is removed for servicing or replacement, disinfection of the well, pump, piping, and electrical cable will be necessary (refer to NAC 445A.66885). Contact the BSDW if you have questions regarding preparation of the ERP. You can also contact the Nevada Rural Water Association (NvRWA) at (775) 841-4222, if you need assistance. NvRWA can assist you in preparation of the ERP and their services are no charge to public water systems.

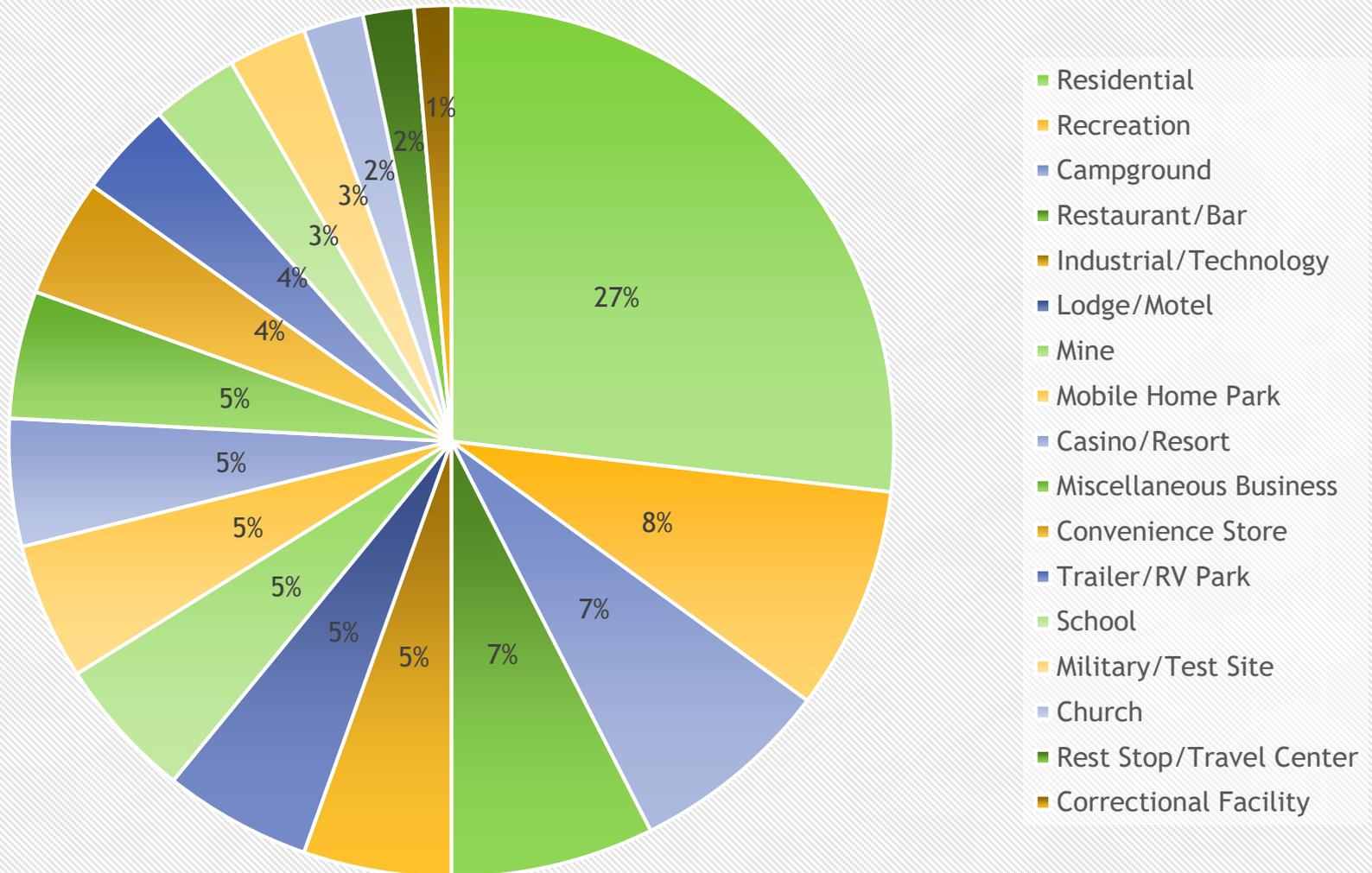
FACILITY	CATEGORY	DESCRIPTION
Management	System Management and Operation	Systems must maintain a current emergency response plan that addresses source, production, storage and distribution. NAC 445A.66665

Comments: Review the current Emergency Response Plan and verify that it is current. Locate the plan in a place easily accessible by on-call personnel.

Wells



NV Public Water System Types



Thank You & Keep in Touch

