



# Ruby Jubilee 40<sup>th</sup> TRI-STATE SEMINAR

**Celebrating**  
40 YEARS OF TRAINING EXCELLENCE

**AUGUST 4-7, 2025**  
SOUTH POINT HOTEL & CASINO | LAS VEGAS

## TRI-STATE SEMINAR TOURS

### ♦ TUESDAY, AUGUST 5, 2025

SESSION	TOUR DESTINATION	Bus Loading	Bus Departs	Arrival to Location	Tour Start	Tour Duration	Bus Loading	Bus Departs	Return Time
8801	Henderson Wastewater Treatment Plant (Galleria)	7:30 AM	7:45 AM	8:15 AM	8:20 AM	2	10:20 AM	10:30 AM	11:00 AM
8802	Hoover Dam (Hard Hat Tour)	7:45 AM	8:00 AM	8:50 AM	9:00 AM	2	11:15 AM	11:30 AM	12:20 PM
8803	City of North Las Vegas Water Reclamation Facility	7:15 AM	7:30 AM	8:10 AM	8:15 AM	2	10:20 AM	10:30 AM	11:15 AM

### ♦ WEDNESDAY, AUGUST 6, 2025

SESSION	TOUR DESTINATION	Bus Loading	Bus Departs	Arrival to Location	Tour Start	Tour Duration	Bus Loading	Bus Departs	Return Time
8804	Shark Reef	8:30 AM	8:45 AM	9:20 AM	9:30 AM	1.5	11:15 AM	11:30 AM	11:56 AM
8805	Alfred Merritt Smith Water Treatment Facility (SNWA)	7:00 AM	7:15 AM	8:00 AM	8:30 AM	4	12:45 PM	1:00 PM	2:00 PM
8806	Hoover Dam (Hard Hat Tour)	7:45 AM	8:00 AM	8:50 AM	9:00 AM	2	11:15 AM	11:30 AM	12:20 PM

### ♦ THURSDAY, AUGUST 7, 2025

SESSION	TOUR DESTINATION	Bus Loading	Bus Departs	Arrival to Location	Tour Start	Tour Duration	Bus Loading	Bus Departs	Return Time
8807	Hoover Dam (Hard Hat Tour)	7:45 AM	8:00 AM	8:50 AM	9:00 AM	2	11:15 AM	11:30 AM	12:25 PM
8808	Shark Reef	8:45 AM	9:00 AM	9:20 AM	9:30 AM	1.5	11:15 AM	11:30 AM	11:56 AM

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TRI-STATE SEMINAR TOUR

# HENDERSON WASTEWATER TREATMENT PLANT



**AUGUST 5, 2025**

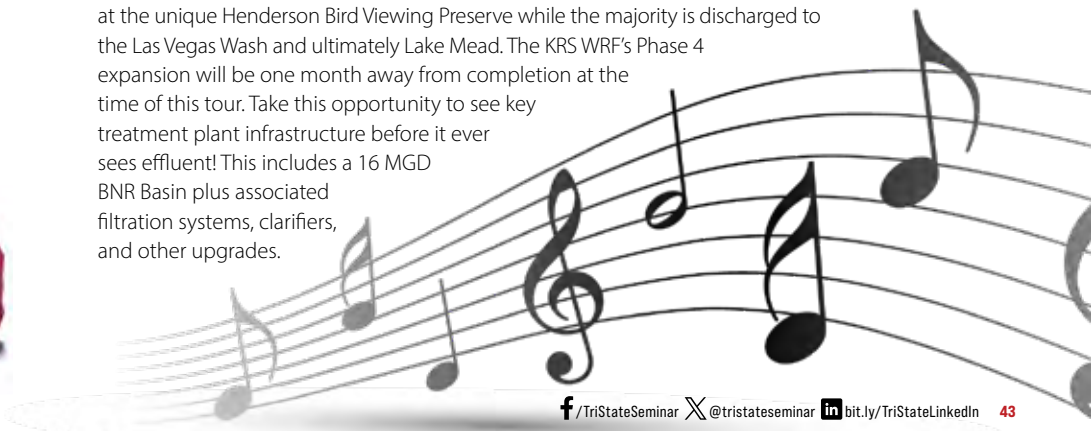
**SESSION: 8801**

**Cost:** \$20 per person  
Open to 23 Registered Attendees

**DEPARTURE FROM  
SOUTH POINT HOTEL & CASINO**

**Bus Loading:** 7:30 AM  
**Bus Departs:** 7:45 AM  
**Bus Returns:** 11:00 AM

The Kurt R. Segler Water Reclamation Facility (WRF) is one of four major wastewater treatment plants located in the Las Vegas Valley. The WRF is the city of Henderson's primary wastewater treatment facility and was originally constructed in 1994. With upgrades completed in 2008, the facility has a treatment capacity of 32 MGD. The facility uses a variety of treatment technologies including activated sludge to remove organics, solids, ammonia, and phosphorus to very low levels. Tertiary treatment by sand filtration with chemical enhancement is used to remove phosphorus to levels well below permit limits. Disinfection is primarily by ultra-violet (UV) light with chlorination/dichlorination capabilities as a backup. A portion of WRF's effluent is used at the unique Henderson Bird Viewing Preserve while the majority is discharged to the Las Vegas Wash and ultimately Lake Mead. The KRS WRF's Phase 4 expansion will be one month away from completion at the time of this tour. Take this opportunity to see key treatment plant infrastructure before it ever sees effluent! This includes a 16 MGD BNR Basin plus associated filtration systems, clarifiers, and other upgrades.







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## TRI-STATE SEMINAR TOUR

# HOOVER DAM

### HARD HAT TOUR



### AUGUST 5, 2025

SESSION: 8802

### AUGUST 6, 2025

SESSION: 8806

### AUGUST 7, 2025

SESSION: 8807

**Cost:** \$80 per person (Lunch on your own upon returning to hotel)  
Open to 55 Registered Attendees

**DEPARTURE FROM  
SOUTH POINT HOTEL & CASINO**

**Bus Loading:** 7:45 AM  
**Bus Departs:** 8:00 AM  
**Bus Returns:** 12:30 PM

Attendees are encouraged to wear comfortable clothes and bring bottled water. Closed toe shoes are required. Weapons, including pocketknives, are not allowed. Children must be accompanied by a responsible adult. This tour involves an elevator ride down and up. Persons with pacemakers or claustrophobia must determine their own level of comfort before registering for the tour. **This is a secure facility and attendees will be required to pass through TSA screening before the tour.**

A look into the dam facilities will emphasize the challenges faced by operating high volume, but very seasonal, facilities with significant variations in flows and demand. Participants will learn about the legal challenges for compliance with those facilities as they share a common border between two states (AZ & NV) while gaining a perspective on the challenges in water and wastewater treatment for seasonal tourist destinations.

Go deep inside the Hoover Dam, one of the nation's most iconic structures, during a special "Hard Hat" tour as you learn about one of the nation's largest and most managed rivers. The entire tour of the dam and power plant is centered on the importance of water – quantity, quality, and utility. Participants will pass through elevators and doors that are closed to the public as Bureau of Reclamation managers give you an inside look at the dam's operations. Highlights include walking inside the 2,080-megawatt hydropower plant, traversing interior service passages and inspection tunnels, and seeing architectural designs of a past era. Tour participants will leave with a better understanding of the importance of water and water quality for power generation and irrigation.



## TRI-STATE SEMINAR TOUR

# SHARK REEF AQUARIUM TOUR

### MANDALAY BAY RESORT



**AUGUST 6, 2025**

**SESSION: 8804**

**AUGUST 7, 2025**

**SESSION: 8808**

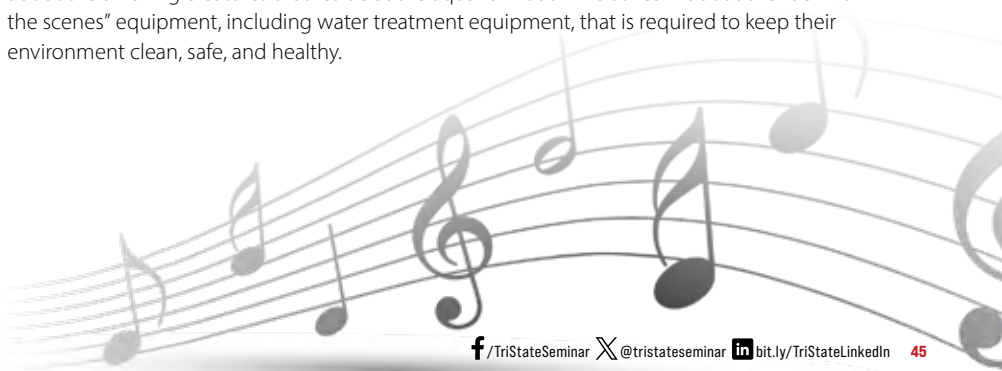
**Cost:** \$80 per person  
Open to 55 Registered Attendees

**DEPARTURE FROM  
SOUTH POINT HOTEL & CASINO**

**Bus Loading:** 8:30 AM  
**Bus Departs:** 8:45 AM  
**Bus Returns:** 12:00 PM

Attendees are encouraged to wear comfortable clothes and bring bottled water. Closed toe shoes are recommended. Weapons, including pocketknives, are not allowed. Children must be accompanied by a responsible adult.

The Shark Reef Aquarium affords guests "up close and personal" viewing of more than 2,000 animals including a variety of sharks, giant rays, exotic fish, endangered green sea turtles, piranha, and even a Komodo Dragon! With 14 exhibits and a 1.3 million gallon shipwreck enclosure, the Shark Reef Aquarium located in Mandalay Bay Resort is one of the largest aquarium tanks in the US. The iconic Shark Reef Tunnel provides a 360° viewing of the vast marine habitat and the amazing aquatic creatures leisurely swimming through their watery world. The aquarium is committed to conservation, education, science, and recreation. Visitors will not only learn about the amazing creatures that reside at the aquarium but will also learn about the "behind the scenes" equipment, including water treatment equipment, that is required to keep their environment clean, safe, and healthy.







### TRI-STATE SEMINAR TOUR

# CITY OF NORTH LAS VEGAS WATER RECLAMATION FACILITY

## WASTEWATER TREATMENT PLANT TOUR



**AUGUST 5, 2025**

**SESSION: 8803**

**Cost:** \$20 per person  
Open to 23 Registered Attendees

**DEPARTURE FROM  
SOUTH POINT HOTEL & CASINO**

**Bus Loading:** 7:15 AM  
**Bus Departs:** 7:30 AM  
**Bus Returns:** 11:15 AM

Construction of the City of North Las Vegas Water Reclamation Facility commenced in November 2008 and was substantially completed by August 2011. The WRF has been operational since June 2011, with a current daily flow average of 20 million gallons per day (MGD). The facility, situated on a forty acre site, can treat a designed average daily flow of 25 million gallons of wastewater and a maximum hourly peak flow of 50 million gallons of wastewater.

The WRF is a state-of-the-art advanced tertiary level facility using submerged membrane bioreactor (MBR) technology. When placed on line, the WRF was the largest MBR plant treating wastewater in North America and one of the largest MBR facilities in the world. Its technological, enhanced biological nutrient removal (EBNR) is used for the removal of phosphorus and nitrogen before discharging the highly treated wastewater to the Las Vegas Wash where it is conveyed to Lake Mead. For the phosphorus removal, the WRF uses either enhanced biological phosphorus removal (EBPR) or chemical phosphorus precipitation. A modified three stage A<sup>2</sup>/O<sup>TM</sup> process is used for enhanced nutrient removal.

The WRF is staffed by highly trained personnel who operate and maintain the facility 24 hours a day, 365 days a year through an extensive computerized supervisory control and data acquisition (SCADA) operational system.



### TRI-STATE SEMINAR TOUR

# ALFRED MERRITT SMITH WATER TREATMENT FACILITY

## WATER TREATMENT PLANT TOUR



**AUGUST 6, 2025**

**SESSION: 8805**

**Cost:** \$40 per person  
(Lunch on your own upon returning to hotel)  
Open to 55 Registered Attendees

**DEPARTURE FROM  
SOUTH POINT HOTEL & CASINO**

**Bus Loading:** 7:00 AM

**Bus Departs:** 7:15 AM

**Bus Returns:** 2:00 PM

Attendees are encouraged to wear comfortable clothes and bring bottled water. Closed toe shoes are required. Weapons, including pocketknives, are not allowed. Children must be accompanied by a responsible adult. **Security will need an email with the participants names and place of employment 15 days prior to the tour date, as long as everyone is a US citizen. If there are any foreign nationals, we will need a copy of their passports at 30 days in advance. All visitors will need to bring their government issued identification (driver's license or passport).**

The Southern Nevada Water Authority (SNWA) Alfred Merritt Smith (AMS) Water Treatment Facility (WTF) was built in 1971 and currently treats most of the drinking water supplied to the Las Vegas valley. The complex system of filtration and disinfection with chlorination was expanded and upgraded to increase capacity to treat 600 million gallons per day. The addition of ozone treatment in 2003 put the facility on the cutting edge of water treatment technology. Join us for a private, guided tour of the SNWA's AMS WTF and Low Lake Level Pumping Station (LLLPS) located near the banks of Lake Mead. Learn about SNWA's use of ozonation and other water treatment strategies to ensure exceptional water quality. Visit the LLLPS to see how this infrastructure is helping the Las Vegas metropolitan area adapt to climate change and secure access to the community's Colorado River water supplies.