

SEPTEMBER 2020

STREAMLINE

MONTHLY

STREAMLINE

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└ MAPPING THE FUTURE

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Water Plant Receives **AWARD**

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Your diligent efforts to stop the spread of COVID-19 are truly working, as the rate of infection continues to decline in our community.



MESSAGE FROM THE PRESIDENT



The weather has turned cooler, kids are back in school (even if it looks different), and there are pumpkin-flavored items for sale everywhere. It's the start of fall, and while I'm happy we've safely moved to Phase 2 of our Hanford remobilization, I look forward to working alongside everyone once again. While most wouldn't have predicted we'd begin our contract transition with so many people still offsite, we are keeping our focus on what lies ahead.

Your diligent efforts to stop the spread of COVID-19 are truly working, as the rate of infection continues to decline in our community. Thanks for demonstrating our strong culture of safety every day by wearing a face covering, maintaining social distance, washing your hands and avoiding large gatherings.

With the upcoming handover to HMIS, I know this time can also bring nerves and concerns about the future, in the midst of an already uncertain time across the nation and worldwide. Please know you are always welcome to get clarification on the transition process from your management chain, senior leadership or by emailing MSAtransition@rl.gov. If you have questions specific to HMIS, you can also send those to HMIStransition@rl.gov and know that the

HMIS team is working hard to address the many questions you have.

I'm proud of our recent accomplishments, including some you will see highlighted in this issue of Streamline, which covers traffic safety initiatives and the awarding of a certificate to the operating team of our 283 West water plant.

As the fall weather sets in, keep an eye out for herds of deer or elk when you're on the roads. We've already seen an uptick in animal sightings since fewer people have been on site, and we expect even more animals on site as they seek food sources. Stay alert when driving and avoid distractions.

I am proud to work with our MSA family and to celebrate the great work you continue to accomplish – no matter the season or surroundings.

A stylized, handwritten signature of "Bob" in orange ink.

Bob Wilkinson
President



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State Award for 200 West Water Plant

Contributor: Robin Wojtanik

The Water & Sewer Utilities team has a silver certificate to frame after receiving an honor from the Washington State Department of Health's Office of Drinking Water. The award was given following five years of consistent performance that removes particles, or turbidity, from the water at the 200 West water treatment

plant. The state says, "improved performance means improved public health protection." The improvements come from the removal of the tiniest contaminants.

W&SU submits reports every month to show its compliance with state regulations. Using this data, the state ranks dozens of public water systems based on their relative performance and awards Treatment Optimization Program certificates for the first time a system meets its turbidity goal for at least three years, and up to 15 or more consecutive years. The state's director

of the Office of Drinking Water said, "Achieving consistently high drinking water quality is the mark of a highly dedicated and skilled water department staff." A silver certificate recognizes five straight years of continuous high performance.

"The Water & Sewer Utilities team is extremely proud of this honor," said Brent Stenson, compliance manager and water purveyor for W&SU. "This award validates the hard work, dedication and emphasis on procedural compliance demonstrated by our employees. Our stationary operating engineers are some of the best in the business."



Members of the 283 West Water Treatment Plant, (left to right) Vinni Dragoo, Richard Herrera, Ed Lerma, Burke Neuman, and Bob Ward) display the Silver Certificate of Achievement presented by the Washington State Department of Health.

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Plan C Needed to Fix a Phase B

*Contributors: Robin Wojtanik,
Mike Borchers*

The fix was anything but simple for our Electrical Utilities crew when called out to repair a power outage at the Pump & Treat Facility in the 100D Area, affecting work being done by another Hanford contractor. “Normally when we respond, just the fuses are blown,” said first line manager Mike Borchers. “But we found a lot of damage. It could have been caused by lightning, but there hadn’t been any reports of lightning in the area. We assessed everything to look for damage and found all in working order except for a buried B-phase cable, part of a three-cable system that makes up a single transformer.” An expedited scan of the ground was scheduled before work could begin.

The team started with Plan A: repair the original cable. But they quickly realized the old cable wouldn’t come out of the ground. “We even borrowed equipment from Benton PUD but still couldn’t get it out,” said Borchers. EU determined the cable had too many bends in it and had aged over time, stiffening the insulation and making it permanently stuck.

Plan B: use the backup conduit. But just 12 feet into the conduit, there were new problems. The EU crew hit a blockage. “We used a camera-mounted tool and found that a



A trench was dug for a new conduit to restore power to the Pump & Treat Facility in the 100D Area after EU crews found a damaged cable.



ground rod had been installed right through the conduit,” said Borchers. The rod had rendered the conduit useless since the time it had been installed, but that wasn’t known since it was only a backup and had never been needed until now.

On to Plan C: install a brand new conduit run, slightly larger than the original, and with only minimal bends. This was the winner! Teamsters and heavy equipment operators helped dig a trench and move gravel for the project, and Road Maintenance crews laid asphalt at the conclusion. The work also included permitting, ecological and cultural evaluations, and confined space work. The cable was energized and the work completed, allowing other progress at the Pump & Treat Facility to continue.

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Through a combination of location intelligence and mixed-reality, Hanford Site workers may use a mobile device to map underground utilities while in the field, ensuring efficiency and worker safety.



Doug Fenske (left) and Byron Gessel, MSA Geospatial Information Technology Services team members, demonstrate the use of location intelligence and mixed-reality to locate underground utilities.

ONE HANFORD MISSION

Mapping out the Future of the Hanford Site

Contributors: Patrick Conrad, Jason Altman

Say you need to create a map for a meeting, or you're out in the field and need to know what – or if – there are utility lines running beneath you. Thanks to MSA's Geospatial Information Technology Services team, this knowledge is now in the palm of your hand.

Anyone who has a smart phone, computer or tablet uses geospatial information to find where they're going or what is around them. Location intelligence uses geospatial data (i.e., roads, facilities, bodies of water) to help solve problems, identify efficiencies and reduce risk.

At Hanford, this information is a key component in making decisions that can help guide the future of cleanup. The GITS team is working on updates that will transform the way work is done. One new feature uses location intelligence and mixed reality to allow workers to see in real-time and real-space what infrastructure lies beneath the surface, ensuring safer, smarter and more efficient work.

"There is excitement about what location intelligence has brought to projects and processes," said Jason Altman, GITS program manager. "The introduction of routing, underground utility visualization using mixed reality, field data collection and facility management are just a few examples of how geospatial information systems and location intelligence help us achieve success."

In recent years, one of the biggest challenges was understanding and adjusting to a changing and broadening user base. From field crews to the president's office, everyone on site is now a consumer of geospatial information. Using a 'One Hanford' approach, the team is implementing a modern, sitewide solution.

Recent updates to the GIS make it easier for workers to explore and use the vast amount of geospatial information created and managed on the Hanford Site. This makes geospatial information easy to understand and accessible to everyone, including the public.

Over the next five years, workgroups will expand and integrate the use of location intelligence into nearly all work scopes at Hanford.

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Hanford Site road maintenance worker Chris Bates covers posts with white canvas bags along a section of roadway as part of a pilot project to discourage deer and elk from crossing in front of vehicles.



Two large signs were placed along SR 240 near Route 10 and the Yakima Barricade to bring more awareness of animals on roads near the site.

ONE HANFORD MISSION

Efforts to Reduce Animal Strikes at Hanford

Contributor: Ginger Benecke

Although there are few animal strikes on the Hanford Site compared to other areas of the state, ensuring our safety on the roads is a high priority. Elk and deer mating season in Eastern Washington runs from September to early January, increasing the potential for animals on the roads and making situational awareness all that more important.

In an effort to reduce animal strikes on Hanford roadways, MSA began implementing a pilot program based on studies done in Wyoming and Utah. This includes installing posts with white canvas bags wrapped around them at 50-foot intervals on stretches of Route 4 South, an area where more animals have been seen or struck. According to the studies, when illuminated by headlights, the bags appear to animals as a white-tailed deer running, which is a danger signal. Research indicates animals generally wait until the illumination disappears before crossing the road.

MSA Traffic Safety will work with the Ecological Monitoring and Compliance organization to install trail cameras to determine the viability of the effort over one year.

“Placing the bags along the road could be an effective and practical way to help reduce the number of animal strikes,” said Andy Foster, manager of MSA Safety Support and chair for the Hanford Site Traffic Safety Committee. “We hope this program will improve the safety of our workforce during their daily commute.”

In addition, MSA Traffic Safety placed large signs near the intersections of SR 240 and Route 10, and SR 240 and the Yakima Barricade to remind drivers to look out for deer and elk.

For more ways to avoid deer and elk strikes, go to the [Hanford Site Traffic Safety](#) webpage.

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ONE HANFORD MISSION

Modified Equipment Increases Safety, Efficiency

Contributors: Robin Wojtanik, David Baie

A team collaboration helped upgrade important equipment used for summer road work, improving safety and increasing efficiency. The improvements came through modifications to the air compressor used to clean out cracks in the asphalt before they are sealed.

The large hose fitted on the compressor posed a tripping hazard and must be coiled when stored. While working, crews had to drag the hose around, requiring more physical effort and putting wear-and-tear on the hose. The Roads & Ground team sketched out an idea of how storage and use of the hose could be improved and shared it with Fleet Services. A heavy equipment mechanic created prototypes and worked with the Engineering and Roads & Ground departments to finalize the design and turn it into a finished product.

“The new version uses a much smaller hose hanging from a rotating mount with a retractable reel,” said Eddie Perry, teamster lead/acting manager for Road Maintenance.



Operator Don Johnson uses a modified hose on an air compressor to complete crack sealing work.

“The worker can now utilize the correct length of hose, without the weight and drag of a heavy hose, making it easier and safer to work with.”

The safer, more efficient hose was in place as the Road Maintenance crew completed crack sealing throughout the summer on Routes 1 and 4.

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ONE HANFORD MISSION

“Blowing the Dust” off the Test Beds

Contributors: Robin Wojtanik, Keith Mendez, Amanda Mings

Reintroduction of the Cultural Resource Test Beds has started for Hanford workforce training, following years of limited use. As a way to train workers on how to identify potential artifacts found on the Hanford Site, DOE, the Confederated Tribes of the Umatilla Indian Reservation, the Yakama Nation, and the Nez Perce Tribe partnered in the 1990s to build the training props at the Volpentest HAMMER Federal Training Center. “As people retired and ongoing maintenance fell away, the beds were no longer used,” said Keith Mendez, archaeologist for MSA’s Cultural and Historic Resources Program.

Together with HAMMER, tribal partners recorded a virtual tour of the beds and posted it on YouTube. “The video depicts what the test beds are, their history and development, and how they can be used in the future,” said Amanda Mings, HAMMER Tribal Program coordinator. “These training test beds provide a resource for us to understand how to mitigate the potential alteration, destruction or damage of artifacts that can occur during cleanup activities,” added Mendez.

During creation of the beds, with the help of local tribes, the team used records of real



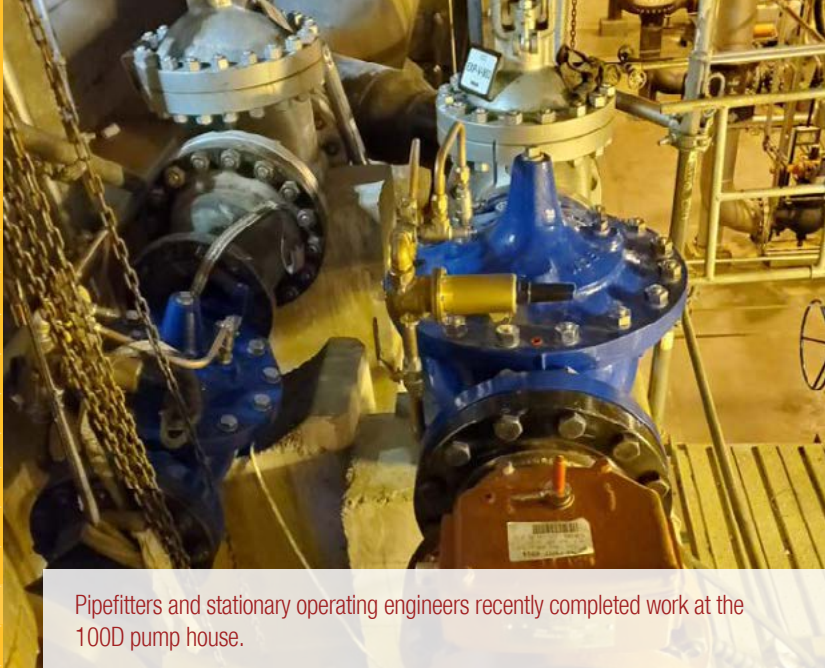
Keith Mendez (left), MSA archaeologist, and Det Wegener, retired HAMMER Tribal Program manager, stand in the cultural test beds.

sites as a model to make them look like actual cultural sites that could be found in the field today. Still, it’s not a perfect system for every potential artifact. “You can’t fake 5,000 years of deposition,” said Mendez. “But it’s a way to identify items like projectile points (i.e., arrow heads), fishing gear, mussel shells and evidence of semi-subterranean housing that could be preserved.”

Mendez plans to use the one-of-a-kind tribal training props for law enforcement, as well as other opportunities. “MSA is working

to incorporate a practical component into Cultural Sensitivity Training beginning with a walkthrough of the test beds in quarterly National Environmental Policy Act training,” said Mings. “This training includes Hanford workers who incorporate NEPA into their decision-making process during project planning.” The test beds provide a valuable opportunity to continue to work with Native American tribal partners for the common goal of protection of non-renewable resources on the Hanford Site.

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Pipefitters and stationary operating engineers recently completed work at the 100D pump house.



W&SU export operator Julian Ramos is pictured by the new valve added at 182D.

ONE HANFORD MISSION

New Valve Brings Reliability, Redundancy

Contributors: Robin Wojtanik, Michael Winkel

A critical part of the water supply chain at the Central Plateau received an upgrade when crews replaced a valve at the 100D pump house. The valve is a workhorse of the export water system, regulating pressure for over 25 miles of distribution lines. The valve has to accommodate system demands for all water pumped from the Columbia River to the 100 Areas and Central Plateau, while also experiencing wear-and-tear from particles and turbulence in the pipes.

Teams from Water & Sewer Utilities, Maintenance Services, and Crane & Rigging replaced the pressure-regulating valve and added a secondary valve. “This upgrade to the 100D pump house will provide additional redundancy and reliability of the system,” said Michael Winkel, program support manager for W&SU. “It will help ensure minimal downtime during future maintenance activities or operational upsets.”

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Carpenters Carl McLaughlin, Rick Russert, Mike Finney, and Doug MacDonald stand by the completed landmark sign at the 200 West Pump and Treat Facility.



Sign painter John Doty stands in front of the D & DR Reactors' landmark sign.

ONE HANFORD MISSION

Landmark Signs Show Progress at Hanford

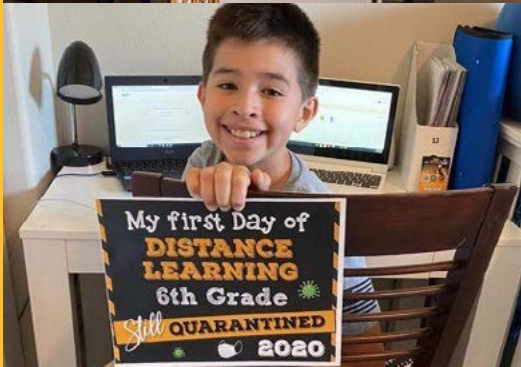
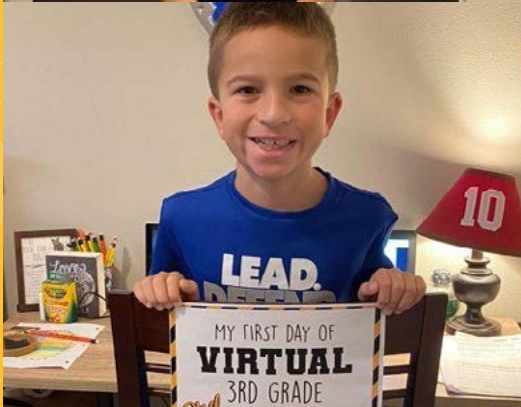
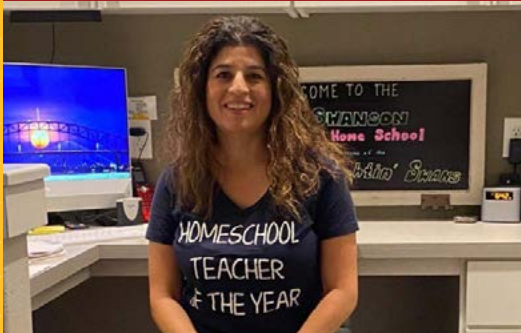
Contributor: Patrick Conrad

The posts are up, the paint is dry and the signs showing Hanford cleanup successes are available for viewing! MSA recently completed installation of 15 temporary landmark signs around the 580-square-mile Hanford Site. Each double-sided sign is 8-feet tall by 12-feet wide and includes key cleanup information about the facility or area.

This was a collaborative effort of MSA teamsters, sign painters, carpenters and other Hanford contractors. They can be seen at several of the former plutonium reactors along the Columbia River, the Waste Treatment and Immobilization Plant, and the former site of the Plutonium Finishing Plant, where nearly two-thirds of the nation's plutonium stockpile was produced.

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MSA FAMILY



Life as a Teleworking Parent

As told by Marcus Brown, manager of business systems:

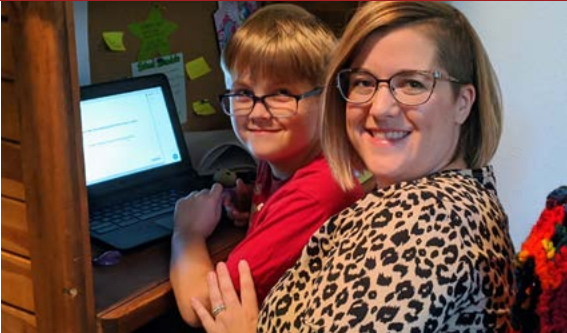
“I had just jumped on a teleconference with a vendor when one of my four year old twins came barreling in my office, trying to talk to me and tapping non-stop on my leg, saying “Daddy, daddy, daddy.”

I had to excuse myself from the teleconference very quickly and told the vendor my son was interrupting me. I slightly covered my microphone, bent over, and said, “What’s up, buddy?”

He leaned in and said, “I love you Daddy.”

I said, “I love you, too” and sent him on his way.

The vendor said she melted on the other end of the phone when my son said that.”



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MSA **FAMILY** (continued)



“Moral of the story is, we have to be flexible in our current environment.

There is a lot of new background noise in our daily lives now, and in some aspects we have essentially opened our homes up to our co-workers.”

We all have gotten to know each other a little more, if we have kids, pets, live on busy streets, etc. Be flexible, and realize teleworking is going to come with unplanned interruptions.”



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ETHICS & COMPLIANCE

Political Ethics in the Workplace

Contributor: Tyler Oates

As the 2020 general election approaches, it is important to review the ethics of political activities in the workplace. As stated in the MSA Ethics Guide, “MSA encourages all employees to participate in the political process and to support candidates and causes of their choice.” However, federal regulations dictate what MSA and its employees can and cannot do in a political context.



While all MSA employees are entitled to support the political candidate of their choice, MSA’s name may never be used in any political context. Employees are prohibited from campaigning for a candidate or cause on company time or using company resources. Posters or other advertising means of support or opposition are also prohibited.

Finally, it is important to note that every employee is entitled to their own political opinion. Under no circumstance is it ever

appropriate to attack or harass another employee in person, on social media or by other means, regarding their political beliefs.

If you have any questions, reach out to our Ethics and Compliance team or review the [MSA Ethics Guide](#).

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Have a story idea for Streamline? Send an email to MSAcos@rl.gov or contact [Reneé Brooks](#) with MSA Communications at (509) 373-0857.

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Right solution.
Right time.
Right value.

At MSA, we are committed to providing innovative solutions that fit the needs of our customers. We work closely with the DOE and Hanford contractors to determine timing and value, ensuring that Hanford cleanup continues to progress.