

# THE KWAJALEIN HOURGLASS



## THIS WEEK

### COMMAND NOTES

WITH LTC TAYLOR 3

### RMI EMPLOYEES

BEGIN WORK ON USAG-KA 4

### COKE BOTTLE PROBLEM

AND KWAJ ARCHAEOLOGY 6

### RTS MISSION NOTICE

SAFETY INFORMATION 2

LT. COL. DAVID TAYLOR CLIMBS THE STAIRS TO THE ALCOR SENSOR DURING A SITE VISIT ON ROI-NAMUR.



PHOTO ILLUSTRATION BY JESSICA DAMBRUCH

# RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE MISSION ANNOUNCEMENT

A RANGE OPERATION IS SCHEDULED FOR JULY 7-8. CAUTION TIMES ARE JULY 7 AT 6 P.M. THROUGH 12:58 A.M. ON JULY 8. THE BACKUP DAY OF JULY 8-9 HAS THE SAME CAUTION TIMES. DURING THIS TIME, A CAUTION AREA WILL EXTEND INTO THE OPEN OCEAN EAST OF THE MID-ATOLL CORRIDOR.

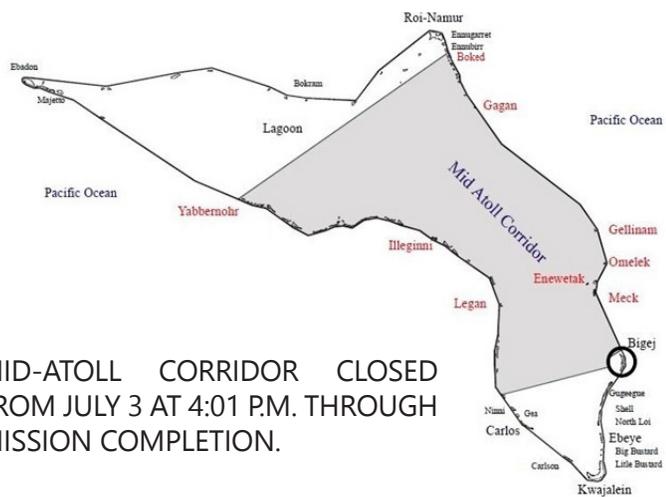
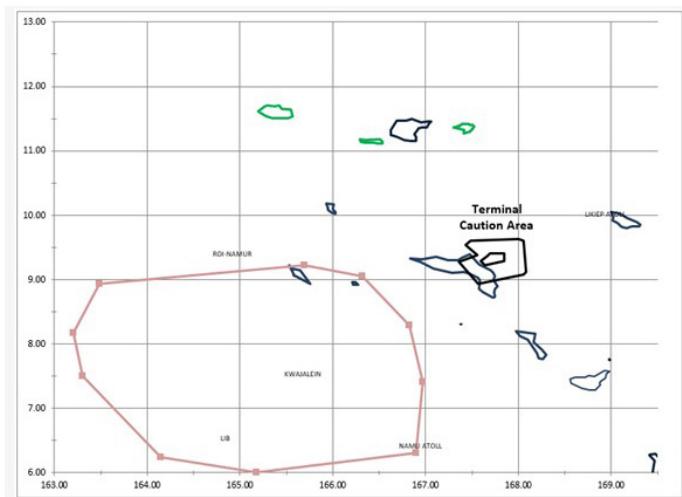
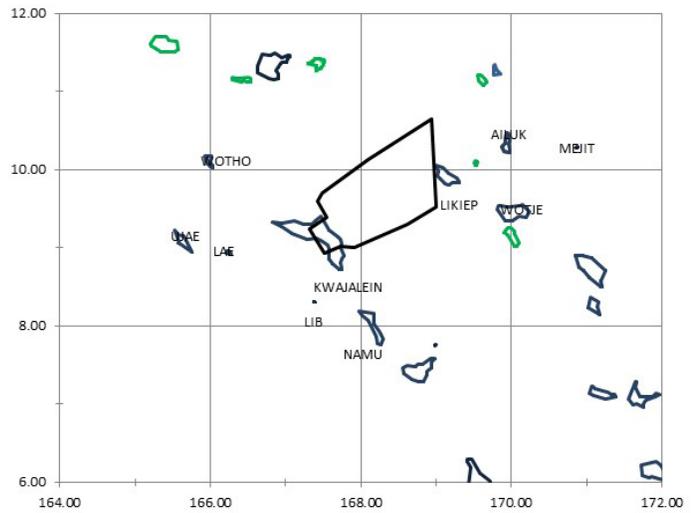
THE MID-ATOLL CORRIDOR WILL BE CLOSED FROM 4:01 P.M. JULY 3 THROUGH MISSION COMPLETION. THE CAUTION AREA EXTENDS FROM THE SURFACE TO UNLIMITED ALTITUDE.

SEE THE KWAJALEIN HOURGLASS OR ROLLER DATED JUNE 25 FOR A MAP OF THE CLOSED AREAS. QUESTIONS SHOULD BE DIRECTED TO REAGAN TEST SITE MISSION SAFETY OFFICE AT (805) 355-5625.

JUON IEN KOKEMELMEL ENAJ KOMAN ILO RAN IN THURSDAY, 07 RAN LOK NAN 08 RAN IN JULY 2022. AWA KO REKAUWOTOTA EJ JEN 6 P.M. AWA JOTA LOK NAN 12:58 A.M. IN JIMAROK. RAN IN BACKUP EJ 08 LOK NAN 09 RAN IN JULY 2022, IM AWA KO REKAUWOTOTA EJ JEN 6 P.M. JOTA NAN 12:58 A.M. IN JIMAROK.

MALO IM ENE KO ILO IOLAP IN AELON IN (MID-ATOLL CORRIDOR) RENAJ KILOK JEN 4:01PM AWA ELKIN RAELEP ILO 03 RAN IN JULY 2022 NAN NE EDEDELOK KOKEMELMEL KEIN.

LALE HOURGLASS AK ROLLER EO AN 25 RAN IN JUNE IM 02 RAN IN NAN AM LALE IA KO REJ KILOK. NE EWOR AM KAJITOK JOUJ IM CALL E LOK KWAJALEIN RANGE SAFETY OPIJA RO ILO (805) 355-5625 MISSION SUPPORT ILO (805) 355-4420.



MID-ATOLL CORRIDOR CLOSED FROM JULY 3 AT 4:01 P.M. THROUGH MISSION COMPLETION.

## THE KWAJALEIN HOURGLASS

The Kwajalein Hourglass is named for the insignia of the U.S. Army's 7th Infantry Division, which liberated the island from the forces of Imperial Japan on Feb. 4, 1944. The Kwajalein Hourglass is an authorized publication for military personnel, federal employees, contractor workers and their families assigned to U.S. Army Garrison-Kwajalein Atoll.

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# RANGE DIRECTOR LED REAGAN TEST SITE DURING PANDEMIC

BY JESSICA DAMBRUCH

**Lt. Col. David Taylor**, Ronald Reagan Ballistic Missile Test Site range director, recently PCS'd with his wife, Elizabeth, and daughter, Lily, after completing his tour of duty on U.S. Army Garrison-Kwajalein Atoll.

Taylor, a former air defense officer, said he enjoyed getting to know the diverse workforce at RTS in his unique new home.

During his command, Taylor's team provided uninterrupted mission support—often going above and beyond to meet the challenges of the operational tempo during the pandemic.

The increasingly isolated conditions on Kwajalein during the pandemic became a proving ground for the talents of his new support team, Taylor said.

“For my team, as well as both the RTS team, here and back in the states, we've done a good job cross-training people across various disciplines to keep the mission going,” he said. “In each mission, we have several people that come in TDY to support those missions. With COVID restrictions, that just wasn't possible.”

Taylor credited the Garrison and its contract support partners for keeping the island “open for business” through quarantine management. He thanked the numerous range employees who took on additional support roles during operations windows.

“We've had a lot of team members on the island stand up, cover down and cross-train on highly technical jobs that weren't in their position description—from engineers becoming flight tested or [performing] work on the USAV Worthy... We've been able to show value in all those things and keep the mission going, as well.”

Cross-training allowed Range Generation Next employees to utilize their talents, skills and abilities to support mission roles, sometimes serving in multiple departments at a given time.

One such testament to continued forward momentum despite the pandemic was completed in 2021 with expertise from Range Generation Next engineers: a connective “collar” to complete a weather-proof passage between wings of a sensor facility on Roi-Namur.

## On Choosing Kwajalein

“[Kwajalein] was one of my top choices from the very beginning,” Taylor said, of choosing USAG-KA as a duty station. He became acquainted with the islands through stories shared amongst colleagues and friends. As an avid paddleboarder and snorkeler, he made sure to pack out two stand-up paddleboards with the sports equipment to use during his tour.

Living on the atoll was a dream—right down to the bicycle commute to RTS command headquarters.

“I do enjoy the whole bike-as-a-vehicle kind of method. It's very simple and helps you get out and just commute to work,” he said. “It gives you a little bit of exercise.”

Taylor said he was grateful his family got to enjoy the outdoors and spend time together. Elizabeth was an avid community volunteer who contributed much to community life. Lily participated in Girl Scouts and community events through school activities.



U.S. ARMY PHOTOS BY JESSICA DAMBRUCH

1) Lt. Col. David Taylor, left, and his spouse Elizabeth enjoy the 2021 Spring Break Music Fest on U.S. Army Garrison-Kwajalein Atoll. 2) Taylor served as the RTS range director during the pandemic—a challenging time for he and his dedicated team to continue supporting the Army mission.

## Looking Back

As a young man eager to travel, Taylor credited the example of two family members.

His father became a prime source of motivation. His father's brother, Earl, a retired senior master sergeant in the U.S. Air Force, was his inspiration to join the U.S. armed forces.

Earl and his wife, Grace, became mentors for he and Elizabeth, serving as models for how to thrive as a military family, he said.

“I heard stories of how [Earl] was in the Philippines, and he was in Alaska doing all these great and crazy things,” Taylor said. “That's why we never saw him. I always thought, ‘When I grew up, I'd love to travel and go do a lot of those things. So, here I am, years later.’”

Though his uncle passed away in 2019, Taylor assumed the mantle as the family member working and living abroad.

“He was sad that I didn't join the Air Force,” Taylor said, of his uncle. “Maybe some days, I was sad, too. But hey, now 23 years after the fact, the Army was the best decision.”

## A Future In Space

Earlier in his deployment, Taylor said he was interested in the growing role of

the range for SMDC.

“That has been very fascinating, and I, myself, coming into the job, have been very curious as to how ... future roles and responsibilities shake out with the U.S. Space Force—how all the command structures dealing with space will impact the role here. We still support all their initiatives. It's an exciting time to be involved in all things space. ... I just hope we're able to continue down that path of focus on space capabilities, improving them and matching our adversary's progress in space.”

Noting his beginnings as a short-range air defense officer with more of an iconic “direct combat role,” Taylor said he found it humorous that, later in his career, leaving the acquisitions-focused RTS role, that U.S. Army Space and Missile Defense Command is now “full of and led by air defense officers.”

“I find it kind of funny that the profession I ended up going away from somehow connected to in my 22nd year of service,” he said. “...My brother likes to remind me that that was the highlight of my career—and it was almost two decades ago! Now that I'm [on Kwajalein] this seems to be the highlight of my career. [This tour] has made me the most popular person in my family.”



U.S. ARMY PHOTOS BY JESSICA DAMBRUCH

1) New hires pose for a group photo at Kwajalein's Religious Education Building June 18 during a break in their onboarding workshop.  
2) Human Resources Specialist Jaelyn Lemari-Solomon, center, assists an employee with a work question.

## NEW RMI EMPLOYEES ON KWAJALEIN BEGIN LOGCAP V ONBOARDING

BY JESSICA DAMBRUCH

A group of new Marshallese employees joined LOGCAP V human resources personnel for an onboarding workshop to learn about employee roles and responsibilities June 18 at the Religious Education Building.

Many will be employed by the Department of Public Works, said LOGCAP V HR Supervisor Scott McVey.

"These are some of the first newly-hired local national employees to join us after our initial hiring fair on Eb-

eye last month," he said. "We are grateful to be able to bring them onboard to join the LOGCAP V family."

More than 200 employees responded to the call for applicants at the Ebeye job fair. More small groups of employees will receive onboarding training and get to work throughout the summer.

Together with colleagues from other departments, human resources specialist Jaelyn Lemari-Solomon and finance specialist Arthur Laukon took questions and delivered their remarks to the nine new hires in Marshallese.

They covered the basic roles and responsibilities of LOGCAP employees and explored timekeeping procedures, expectations for personal conduct, safety information and how to seek help on the LOGCAP V employee hotline. They also received information about health benefits, including vacation time, sick time and other paid leave.

"We hope that this workshop will prepare them for work," Lemari-Solomon said. "We look forward to working with them, and to having more applicants from the job fair join us for work."

## WET SEASON BRINGS MORE RISK OF LIGHTNING TO KWAJALEIN

COMMUNITY CONNECTION

By RTX Weather Meteorologists Barie Turpie and Sean Stelten

As we begin summer, Kwajalein is entering peak thunderstorm season. A thunderstorm is officially reported at the weather station when thunder can be heard or when lightning is detected within five miles.

Whenever possible, a lightning warning will be issued prior to the first rumble of thunder heard. Kwajalein typically sees 11 thunderstorm days per year, with most thunderstorms observed from June through November.

Lightning occurs when there is an imbalance in electrical charge between the clouds and the ground, two different clouds, or the cloud and the surrounding air. To get this imbalance, showers and storms need to be strong and long-lasting enough to build up a significant imbalance. Because of this, lightning is more likely to occur during the wet season, when strong and long-lasting showers are more common.

On average, there are 49 lightning related fatalities and hundreds of injuries each year in the mainland United States. Nearly all of these are caused by people being unaware of the current weather conditions and not taking proper shelter.

A surprising aspect of these fatalities is that most of them do not occur when the storm is directly overhead. They actually occur as the thunderstorm is approaching and moving away. The main contributor to this is that many people don't know that lightning can and often does

travel up to 10 to 15 miles away from the parent thunderstorm.

RTS Weather warns for storms with lightning potential that are within 15 nautical miles of Kwajalein and Roi-Namur; however, the world record for the longest lightning bolt is actually 440 miles (Brazil, 2018), or the distance between Washington, D.C. and Boston. For a local reference, that length is a little bit farther than the distance between Kwajalein and Kosrae. This means that whether you're enjoying some time at the beach or refueling the Metro for a flight up to Roi-Namur, it is essential to keep an eye on the weather and take precautions before threatening weather arrives, not once it's overhead.

RTS Weather will issue lightning warnings for Kwajalein or Roi-Namur if a cell within 15 nautical miles shows potential for lightning, or if a lightning strike is recorded.

Data from the KPOL weather radar and the daily synoptic sounding (weather balloon) are used to determine if individual showers show any potential for lightning. Lightning strikes are detected using a network of four sensors located around the atoll as well as the airport AWOS system which the RTS Weather Station maintains. Accompanying heat, light, and electricity, lightning also emits an electromagnetic signal.

This signal falls within radio frequency range and can actually be heard within white noise on AM radio. Each of the four sensors detect this signal, which then triangulates the location of the strike. When a lightning warning is issued, a notification crawler will be put up on the AFN weather channel (20.1),

as well as a banner at the top of the RTS Weather website (rts-wx.com).

So, what should you do if you get caught outside while a dangerous thunderstorm is approaching? If a lightning warning is issued, or especially if you hear thunder, move as quickly and safely as you can to an enclosed building.

Do not take cover in open air shelters or pavilions like those at Emon Beach and near many of the BQs. Seeking shelter is your only option for protection during a lightning storm. Despite it often being regarded as common knowledge, crouching down should never be used as a "last resort."

Crouching actually provides very little, if any, extra protection during a lightning storm, especially on flat and remote Pacific islands. Again, finding a well-built and enclosed shelter is the only way to protect yourself. If you happen to be fishing or diving in the lagoon, try to return to land as quickly and safely as possible. Boaters should also contact the marina for advice on further required actions.

As the National Weather Service states, "When thunder roars, go indoors." Once thunder is heard, seek shelter as soon as possible. The unfortunate reality is, once thunder is heard, you are already in danger. To protect you and your loved ones, keep a close eye on current conditions.

If concerned, you can speak to the duty meteorologist directly at 5-3347. You can also check the RTS weather station website at rts-wx.com or the Kwajalein weather channel for warning updates.

Don't become just another statistic waiting for lightning to strike; be proactive. We are here to keep you safe.

# FOR SEABEE, ADVENTURES BEGAN AFTER ENLISTMENT IN THE U.S. NAVY

BY JESSICA DAMBRUCH

**Call it fate** or call it luck, but when Construction Electrician Constructionman Ricki Newton felt the call to enlist in the U.S. Navy, nothing could compel her to continue her intended major in political science. She left college, completed training at Naval Station Great Lakes, and set out to see the world.

So far, it's been a great learning experience and adventure, and most recently, it's led to her current deployment on U.S. Army Garrison-Kwajalein Atoll.

Currently, Newton supports Navy construction activities with U.S. Naval Mobile Construction Battalion Three, Detail Marshall Islands.

Originally hailing from Monroe, Louisiana, Newton said she feels lucky to be a construction electrician.

When she's not turning wrenches at the Richardson Theater construction site or building water catchments on outer islands, a normal day on deployment begins early for Newton with muster and work on the detail's many projects.

Newton also enjoys the chance to learn new things and to travel and hopes to be stationed in Okinawa and Europe some-

day. On days off, she enjoys the warm weather on Kwajalein.

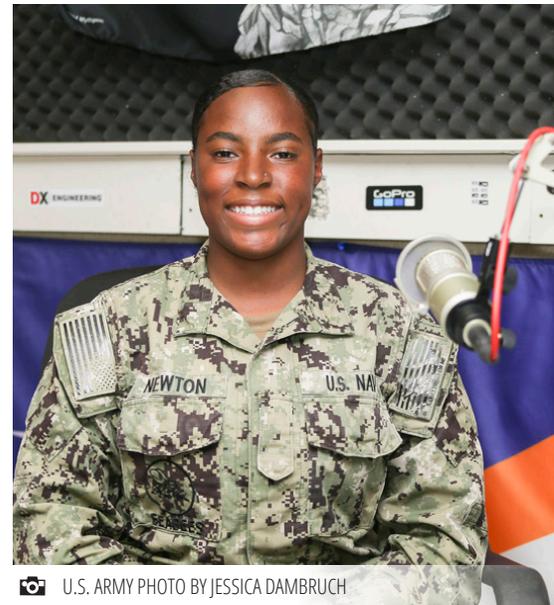
For Newton, the benefits of naval service are many. She encourages those thinking about pursuing a career in the service to check it out.

"The service offers a lot of benefits, like job training, educational assistance, steady pay, health coverage and housing benefits that you can rarely find anywhere—especially where I'm from," she said.

Key to those benefits also is the continued recognition of the contributions of female service members. She hopes that future service members will be encouraged by that. Newton was initially inspired to join the military by close acquaintances and a female family member, she said.

"My aunt was in the Navy Reserves," Newton said. "I also have a best friend who is still in the Navy. They gave me a lot of advice before I joined, about how things would be."

"It's important [to recognize them] because it provides [us all] more support, and it is needed," Newton said. "There are only so many of us in the Navy. The continuous support provides motivation."



U.S. ARMY PHOTO BY JESSICA DAMBRUCH

*U.S. Naval Mobile Construction Battalion 3, Detail Marshall Islands' Construction Electrician Constructionman Ricki Newton visited the AFN Studio to share her thoughts on deploying to USAG-KA and her enlistment in the U.S. Navy. Special thanks to Lt. Gregory Kemper, NMCB 3 Officer In Charge, for coordinating the interview.*

**BQ Residents Town Hall**  
**June 29**  
**5 – 7 p.m.**  
**Island Memorial Chapel**

**ROI SAND VOLLEYBALL TOURNAMENT**  
**SUNDAY, JULY 4 AT 4 P.M.**  
**REGISTER YOUR THREE-PERSON TEAM**  
**WITH ROI MWR BY JUNE 30.**  
**ENTRANCE FEE PER TEAM: \$15**  
**QUESTIONS? CONTACT JOE AT**  
**ROI MWR 5-6580**

**I'M COUNTING ON YOU!**

**DON'T SHARE MISSION SCHEDULES AND LAUNCH TIMES**

**CELEBRATE JUNE WITH THE ARMY FAMILY**





U.S. ARMY PHOTO BY JESSICA DAMBRUCH



2

1) Kwajalein Senior Archaeologist Caitlin Gilbertson monitors the groundbreaking for the George Seitz Elementary School flagpoles in March 2022. 2) A photo of a bottle reportedly from Kwajalein Lagoon, posted on collectorsweekly.com by "diverdown." The photo is captioned as follows: "Found this bottle while diving on a coral head in Kwajalein lagoon. ...it lay undisturbed for 40 years until I came along."

# IT'S NOT YOUR HEADSTONE

## ETHICS, ARCHAEOLOGY AND KWAJALEIN'S CULTURE OF CASUAL LOOTING

BY JESSICA DAMBRUCH

"[Archaeology is] very systematic and controlled," said Kwajalein Senior Archaeologist Caitlin Gilbertson. "You never know what you're going to find, which is what makes it interesting. You may spend a lot of time finding nothing. Then, you do find that one cool thing, and that makes it worth it."

# A

day on the job with the Kwajalein Archaeology team is not the "entertainment archaeology" you know from the movies. Before the shovel hits the dirt, sand or ground water, there is a plan to protect the atoll's historical sites and cultural artifacts.

"We don't get to choose where we dig, and often, we don't do the digging," said archaeologist Susan Underbrink. "If someone is going to put in a new water line, we determine whether the dig must be monitored."

Gilbertson called this unique process "salvage archaeology."

Fieldworkers and construction personnel log dig permits to ensure their work does not encroach on known historical sites. When artifacts are uncovered during work, Gilbertson and Underbrink perform meticulous on-

site assessments to produce accurate records of the objects found in their immediate environments. Analysis and recovery procedures may require a temporary work stop.

"At that point, we're just waiting for things to come up out of the ground," Gilbertson said. "[The workers] are actively doing construction. We just have to save what we can, document what we can and protect whatever is there."

Over the past six years, the Kwajalein Archaeology team has recovered Japanese and American WWII-era objects and Marshallese cultural artifacts. Among their finds are bottles, coins, buttons, small arms and unexploded ordnance.

In the Republic of the Marshall Islands, despite disruptions from the WWII bombardment and postwar excavation, one might even encounter 1890s-era German water catchments and beer bottles, said Underbrink.

Most items have been found "surprisingly intact," Gilbertson said. If any island residents identify UXO, they should call 5-1550 to report the find to an EOD technician.

The team has also recovered Marshallese historical sites, including an earth oven, or "um."

"We had some of the charcoal carbon dated and learned that it was about 200 years old," Gilbertson said. "Within the last year, we also found the burial of an infant, which is extremely rare and unique. We're still waiting on analysis for that."

"Even after six years, I still learn new

things about Marshallese culture and a little about history every single day. ... My previous experience was all medieval work. There's a distance there, and everything from the medieval period is from so long ago, but a lot of what we find here is recent."

Gilbertson said representations of her profession in popular media are misleading. Though the waiting, research, analysis and digging are not prominently featured in "Indiana Jones," in real archaeology, the payoff is far more satisfying.

"Indiana Jones" is more graverobbing and vandalism than anything else," Gilbertson said.

Unfortunately, those are two things Kwajalein and "Indiana Jones" have in common. Despite best efforts, items from Kwajalein's past still fall prey to casual looters.

### THE COCA-COLA BOTTLES

One item atoll archaeologists are less likely to find in recent years is a WWII-era Coca-Cola bottle.

On countless walks and dives, many casual looters have spotted these bottles half-buried in the sand and glinting in the sun before they disappear into private collections.

"You are not allowed to remove artifacts from Kwaj or the RMI in general," Gilbertson said.

Per RMI law, it is illegal to remove historical artifacts from any islands.

Underbrink described an experience at a Kwajalein worksite confronting employees who had looted unique artifacts

she recovered during an excavation.

Of the bottles recovered, 125 were Coke bottles, and a few were “unique” and different, Underbrink said. The find also contained a single, vintage Pepsi bottle believed to be one of only two ever reported found on Kwajalein.

The objects began to disappear.

Underbrink had to ask colleagues for the bottles to be returned to complete her work.

Focused on their own enjoyment, a casual looter does not understand the true value of an object as part of a place, she said.

“You can’t sell it,” Underbrink said. “How could you prove it’s from Kwajalein? It doesn’t say ‘Kwajalein’ on it. ... It’s like a memento for you, but nobody else. ... It needs to stay here. It has its value here.”

The island’s Coke bottle problem is not unlike issues at historic Native American sites throughout North America, like Chaco Canyon or Mesa Verde, Underbrink said. Signs of casual looting are obvious from the absence of pottery sherds. Today, law enforcement officials search visitors before they depart from the sites.

“Now, there may be hundreds of Coke bottles [on Kwajalein], but if everybody takes one, there won’t be any Coke bottles here for anybody to find,” she said.

### IT’S NOT YOUR HEADSTONE

Not everyone tries to take Coke bottles from Kwajalein. Some PCS’ing residents have attempted to smuggle out munitions or even human remains, Gilbertson said.

Then there’s the headstone.

“I have an artifact in my lab that we believe to be a Japanese headstone that was in somebody’s front lawn for a number of years [on Kwajalein],” Gilbertson said. “Someone had just moved into the house. They saw this on their lawn, said ‘This looks really important.’ Bravo to that person! They brought it to my office. Eventually, I got a story: Somebody found the headstone on Carlson in the 1980s, and they thought it was cool. They brought it back. It’s a Japanese headstone that probably marked a Japanese burial. Now, we don’t know where [the burial] could be.”

Those who remove or relocate objects create an incalculable loss for future archaeological work on the atoll. In the case of the headstone, surviving family members would also lose a physical location for remembrance.

Gilbertson sums it up: “You are ultimately destroying the history of that object.”

### FIELD NOTES

#### About The Kwajalein Archaeology Team

In her archaeological studies, Gilbertson specialized in osteology and human remains. She has worked throughout Scotland and Europe on medieval-era excavations. Before beginning work on USAG-KA, fellow archaeologist Susan Underbrink served the state archaeologist for the RMI government.

After completing focused studies in ground stone, Underbrink traveled extensively throughout the Marshall Islands documenting remains and archaeological artifacts recovered at both



U.S. ARMY PHOTOS BY JESSICA DAMBRUCH

1) Susan Underbrink, Kwajalein archaeologist, studies an array of Japanese artifacts found on Kwajalein Atoll in March at the Kwajalein Archaeology Office. 3) An intact beer bottle discovered on a Bigej sandbar in August 2021.

battle burial sites.

On USAG-KA, the Kwajalein Archaeology team coordinates with the Defense Personnel Accounting Agency regarding efforts to identify and repatriate war dead to their respective countries with dignity and respect.

### Thoughts on work

Both archaeologists agree that their work has helped them foster a deeper appreciation for humanity and human history. They are happiest when their work helps them connect families with long-lost loved ones or reveals new insights into Marshallese culture.

“With a lot of the human remains, especially if they’re WWII casualties, it’s very likely they’re going to have someone still living that’s related to them, whether it be children, grandchildren, nieces or nephews,” Gilbertson said. “That makes it a little more rewarding—when we can find those kinds of people, and then, ultimately, send them home.”

“To have come here and to have had the ability to visit so many of the different atolls, and to see that even though it’s one nation, [the Marshallese] live so differently on every different atoll and were such amazing navigators,” said Underbrink.

“They lived by the sea and were able to thrive and explore. It’s mind-boggling to go on a small ride in a canoe. It’s exhilarating and terrifying. Try to imagine what it must have been like 200 to 500 years ago when you didn’t know where you were going, and you had no idea how long it was going to take. Yet, they took those challenges and they succeeded.”

### On human remains

You may have noticed that this article does not include photos of human remains found on Kwajalein. Gilbertson explains why:

“We want to be respectful of the fact that these are human remains. Even if they’re not intact and it’s just partial

bones, they are from a person. ...A lot of these people probably have living relatives and family is waiting for them to come home. It’s a huge invasion of privacy, especially if you don’t have consent, to be taking photos and publicizing them without their permission.

... If you go to museums and you think about what you see there, a lot of that is ancient history. It’s a lot of mummies and human ancestors.

It’s not necessarily anybody that’s going to have a living relative that says, ‘Please

**“You are ultimately destroying the history of that object.”**

**—Kwajalein Senior Archaeologist Caitlin Gilbertson**

don’t take a picture of my grandfather, or my great grandfather and put that on display.’ Any time those [museum] remains are displayed, it is for an educational purpose. Museums can provide a form of

entertainment, but their purpose is to educate and provide information about these past cultures.”

Underbrink added: “There are certain cultures in which it is taboo for them to have remains on display. They don’t want them back. They just want them to be reburied. No photographs, no analysis, just bury them. That’s their culture. You must also be respectful of that.”

To prevent contamination of specimens found in the field, Underbrink stresses that you should not touch human remains. Archaeologists enter the field to work wearing personal protective equipment and are trained in proper recovery procedures to minimize damage to any artifacts and remains.

Ask Underbrink about her other stories—like the day on the job she got a call from someone whose dog came home with a human leg.

“If you find anything that [still] has flesh on it, call the Kwajalein Police Department,” Underbrink said. For the record, that number is 5-4445.

**Have a question for the Kwajalein Archaeology Office? Please call 5-9502.**



COURTESY PHOTO

Military One Source is the U.S. Transportation Command's one-stop shop for personal property information and access to systems: <https://www.militaryonesource.mil/moving-housing/moving/pcs-and-military-moves>.

# DOD, ARMY MAKE IMPROVEMENTS TO PCS PROCESS

## EXTERNAL REPORT

By Jon Connor, ASC Public Affairs

**ROCK ISLAND ARSENAL, Ill.**—Summer is here and it's a busy time for U.S. Army personnel and families as they move to their next assignment. Despite domestic improvements regarding COVID-19, the pandemic still proves problematic in other parts of the world and continues to affect the shipping industry.

In response, the U.S. Transportation Command, U.S. Army and the Army Sustainment Command are working hard to continuously improve the permanent change of station process for its customers and family members.

"The pandemic has impacted all sectors of the global market. Ports, port agents, customs, trucking, rail and shipping are all part of those sectors that have been impacted by the pandemic, and they continue to see shortfalls in labor, drivers, material, fuel, increased operating costs as well as other operational resources," said Col. Courtney Abraham.

Abraham serves as the director of the Army Personal Property Lead Element — or APPLE — and commander of ASC's Joint Personal Property Shipping Offices-Mid Atlantic, or JPPSO-MA.

Located at Fort Belvoir, Virginia, APPLE is the Army's lead integrating organization in the Defense Personal Property Program and the collective Joint Enterprise. Its mission is to plan, manage and provide technical oversight to Army Personal Property Shipping and Processing Offices globally.

APPLE maintains operational control

of both JPPSOs located at Fort Belvoir and Joint Base Lewis-McChord, Washington. JPPSO-MA is one of six Army-led shipping offices. This organization executes personal property movement services to authorized personnel within a specified area of responsibility. The JPPSO-MA supports shipments within portions of 12 states, including the Washington, D.C. area.

This PCS season brings many improvements compared to previous years, said Abraham. USTRANSCOM has adjusted domestic and international transit times to provide better predictability and expectation management for Soldiers and families for delivery of their household goods, he said.

"All overseas PCS locations could be impacted, no one greater than another," Abraham said. "The Personal Property enterprise continues to monitor changes in the global supply chain closely and continually communicates with our industry partners in order to implement the best business practices to support our Soldiers and families."

In late 2020, ASC began equipping units with tablets specifically to aid quality assurance inspectors in the field. "Quality assurance inspectors can perform operations and reporting while on the road, utilizing their Wi-Fi-enabled tablets, mobile devices or hotspots," Abraham explained.

Tablets allow inspectors to reach more customers in the duty day, as well as to immediately provide customers with resources, handouts and report findings into the USTRANSCOM system of record without having to return to a traditional office.

Additionally, the Army has a 75% onsite physical inspection standard by quality assurance personnel, surpassing the Defense Transportation Regulation standard of 50%. The Army currently has an 87% physical inspection rate, meaning an inspector has provided in-person representation at time of pack, pickup or delivery.

Abraham detailed the following changes to the overall PCS process that have been implemented since May 2021:

- **Improving inventories:** "We are working with the moving companies to shift from paper copies of inventories and use electronic inventories to the greatest extent possible. This will provide an improved record of the household goods pack-out and the condition they were in when packed. This effort is to accelerate the inventory and accountability process of household goods, eliminate paper copy exchanges, and enable digital transmission and storage of the inventory records offering better services to members and families when moving. Electronic inventories will be mandatory in 2023."
- **Pickup date choice:** "[We] refined how Soldiers and families input their desired pickup dates, adding the ability for them to pick a preferred day inside their requested seven-day pickup window. Also known as 'spread dates,' this refers to the seven-day window during which your moving company is required to pick up your shipment. This policy is de-

signed to give you more control over requesting a specific date range to schedule your move.”

- **Moving company contact:** “The moving company will identify points of contact and email the Soldier/family with that information to facilitate better communication before, during and after the move, improving the overall PCS experience.”
- **Simplifying claims:** “Created a standardized form to simplify filing an inconvenience claim across the DOD. Additionally, military claims offices will be able to declare a catastrophic loss of a shipment regardless of the percent of inventory items lost, damaged or destroyed. In the past, the threshold was 60% of the total shipment.”
- **Securing property:** “Moving companies are already required to place seals on containers, but we’re adding a requirement that customers be notified if any seals are broken, that seals be replaced, and that these actions and communications are noted in the record.”
- **Better communication:** “Increased service provider availability by phone – added Saturday customer support requirement during peak of the relocation period; provider must return calls on same business day and wait times cannot exceed 20 minutes. Additionally, movers are required to provide customers a 24-hour notice of delivery and make two attempts to contact the customer, with each attempt at least six hours apart, before transferring the customer’s shipment to storage-in-transit.”
- **More control and choice for customer:** “More time to file a claim — was 75 days, now 180 days. Simplified convenience claims processing; improved in-transit visibility; single point of contact with moving companies; and have choice to repair or receive repair costs for damages, including full replacement cost.”
- **Personally Procured Moves:** Formerly known as DITY — Do-It-Yourself moves — reimbursement increased to 100% of what it would have cost the government to use a DOD moving company.
- **Inconvenience claims:** “Reimbursement up to seven days of per diem and incidentals when a moving company fails to pick-up or deliver as agreed.”
- **SmartVoucher** process reduces travel payments to less than two days.
- **The Basic Allowance for Housing** rate is in effect at all 40 on-base Intercontinental Hotel Groups Army Hotel locations in the U.S. through the end of fiscal 2022.
- **IHGs** have agreed to only charge Soldiers at their BAH rate when they must stay in temporary lodging for extended periods of time due to

housing or household good delivery challenges.

- **MILPER Message 22-0045 (CAC-enabled):** Allows commanders the flexibility to change report dates by 30 days either before or after the initial report date, or up to 60-day deferment working with the Installation Directorate of Human Resources to get approval.

Despite all these improvements and bearing challenges in mind, Abraham said the Soldier still has much input regarding how successful a PCS can be. He recommended Soldiers always do the following to ensure their PCS goes as smooth as possible:

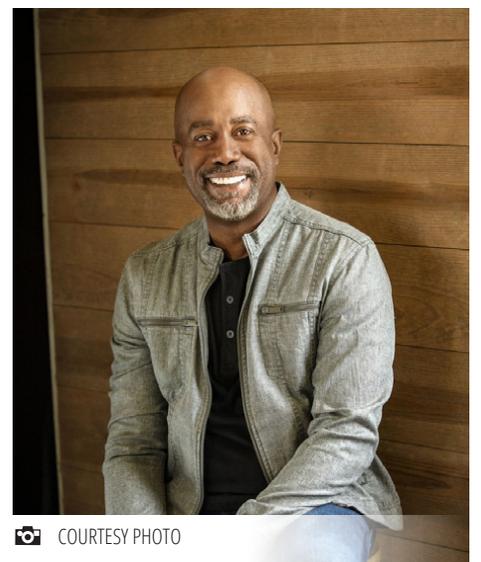
Once orders are received, visit the installation transportation office immediately to receive household goods counseling and complete shipment application(s).

Communicate challenges with chain of command early, so they can assist and work with the installation transportation office to identify all possible options to support the Soldier and their family; there are several choices available to Soldiers and families to support challenges during their PCS Move.

Provide feedback via the Customer Satisfaction Survey. As of May 15, all customers are now asked to complete a brief survey via text message regarding various milestones throughout their move — entitlement counseling, pack/pickup, delivery and claims.

#### Resources for PCS Moves

- **My Army PCS** app offers information on entitlements, types of moves, planning, scheduling, and the claims process with a live chat feature and is available for free download in the Google Play Store and Apple App Store.
- **PCS My POV** helps you track your vehicle during shipment and is available for free download in the Google Play Store and Apple App Store.
- **Army’s Digital Garrison** app helps you explore all the benefits your Army post has to offer such as restaurants, events, shops, clinics, activity centers, and directorates. Navigate to on-post facilities, stay updated on local weather, and be informed about gate closures or other important installation information in real time, all from the palm of your hand. It’s available for free download in the Google Play Store and Apple App Store.
- **Military One Source:** The US-TRANSCOM one-stop shop for personal property information and access to systems
- **USTRANSCOM Customer Facing Dashboard:** Provides customers visibility of individual TSP performance.
- **Army Virtual Call Center:** Available at 800-521-9959; offers extended customer support hours of operation, additional chat capability and access to 24/7 support through US-TRANSCOM.



COURTESY PHOTO

## DARIUS RUCKER TO HEADLINE AT DOD WARRIOR GAMES OPENING CEREMONY

### EXTERNAL REPORT

By U.S. Army Public Affairs

**JOINT BASE LANGLEY EUSTIS, Va.—** Three-time Grammy Award winner and multi-platinum selling artist Darius Rucker will headline the opening ceremony at the 2022 Department of Defense Warrior Games this summer.

Hosted by the U.S. Army Training and Doctrine Command, the Warrior Games will take place at the ESPN Wide World of Sports Complex at Walt Disney World Resort near Orlando, Florida, Aug. 19-28.

The opening ceremony will take place Friday, Aug. 19, at The Stadium within the ESPN Wide World of Sports Complex. Attendees will hear favorites from Darius’ time with Hootie & the Blowfish, as well as his solo chart-topping hits like “Wagon Wheel.”

The Warrior Games, first held in 2010, celebrates the resiliency and dedication of wounded, ill and injured active-duty and veteran military service members from the U.S. and allied nations. Hundreds of elite athletes will compete in adaptive sporting events such as wheelchair basketball, cycling, indoor rowing, sitting volleyball and others.

The ESPN Wide World of Sports Complex, which hosted the 2016 Invictus Games, as well as other professional and youth sports events, was donated for use to serve as a Warrior Games venue. This 220-acre award-winning facility features multiple indoor and outdoor competition sites and combines the spirit of sports with Disney magic, making it the perfect host venue for this year’s events.

The Warrior Games serve to enhance the recovery and rehabilitation of wounded warriors by providing them exposure to adaptive sports. Military Paralympic-style adaptive sports programs help wounded service members and veterans build strength and endurance and draw inspiration from their teammates.

Participation in the Warrior Games represents the culmination of a service member’s involvement in an adaptive sports program and demonstrates the incredible potential of wounded warriors through competitive sports.



# THE LIBERTY PASS

## Kwaj Weekend and Activity Guide

### 4<sup>th</sup> of July Beach Bash

#### Emon Beach

**Bike Parade decoration tent opens @ 2 p.m.**

**Bike Parade 3:30 p.m.**

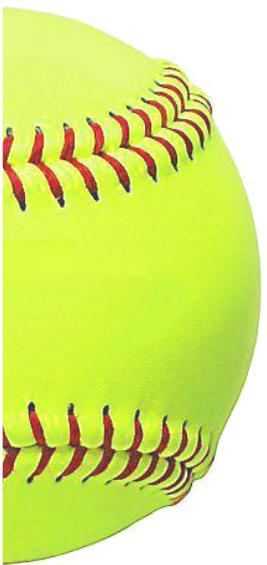
**Fun for the kids 4 - 7 p.m.**

- Bounce Houses
- Water Slides
- Games
- Kayak & paddle boards

**Fun for all ages**

- Food: 5 - 9 p.m.
- Beverages: 4 - 11 p.m.
- DJ dance party: 7:30 p.m.

## Coming Up Next



### CYS Summer Baseball Clinics

All K-12th youth are encouraged to register for this free CYS event. Visit or call Central Registration at 5-2158 in Bldg. 358 for more information.

### Brandon Field from 5 - 6:30 p.m.

- June 25 - Fielding Clinic
- July 2 - Hitting Clinic
- July 9 - Home Run Derby

## MOVIES

Movies begin at 7:30 p.m.

### YUK THEATER KWAJALEIN

- Saturday, June 25  
"Forest Gump" (PG-13) 142 min.
- Sunday, June 26  
"Uncharted" (PG-13) 116 min.
- Monday, June 27  
"Studio 666" (R) 106 min.
- Saturday, July 2  
"Dog" (PG-13) 101 min.
- Sunday, July 3  
"Blacklight" (PG-13) 104 min.
- Monday, July 4  
"Jackass Forever" (R) 96 min.

### C-BUILDING ROI-NAMUR

- Saturday, June 25  
"All The Money in The World" (R) 133 min.
- Sunday, June 26  
"Ready Or Not" (R) 95 min.
- Saturday, July 2  
"Blade Runner 2049" (R) 164 min.
- Sunday, July 3  
"Red Sparrow" (R) 140 min.



### Kwajalein Yacht Club Monthly Meeting

Saturday, June 25 at 5:30 p.m.  
Join the Kwajalein Yacht Club for a social hour at 5:30 p.m. and a meeting at 6:30 p.m. A potluck dinner will follow.



### Kwajalein Boating Orientation

June 28 and 30, 6:30 - 8:30 p.m.  
Corlett Recreation Center Room 6  
Registration fee is \$40 per student. Please register in person at the Kwajalein Small Boat Marina, Friday-Monday, 8 a.m. - 5 p.m. For questions, contact Rick Jameson at 5-9205 and Gary Johnson at 5-3643 with.

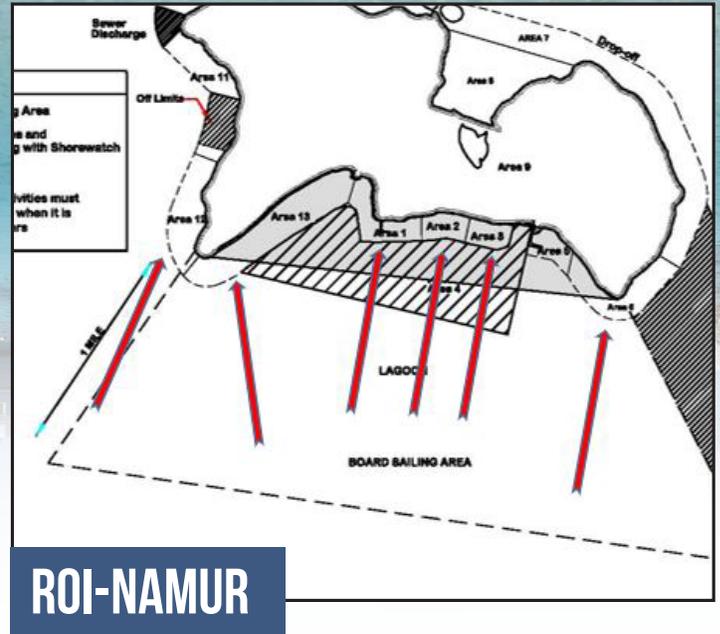
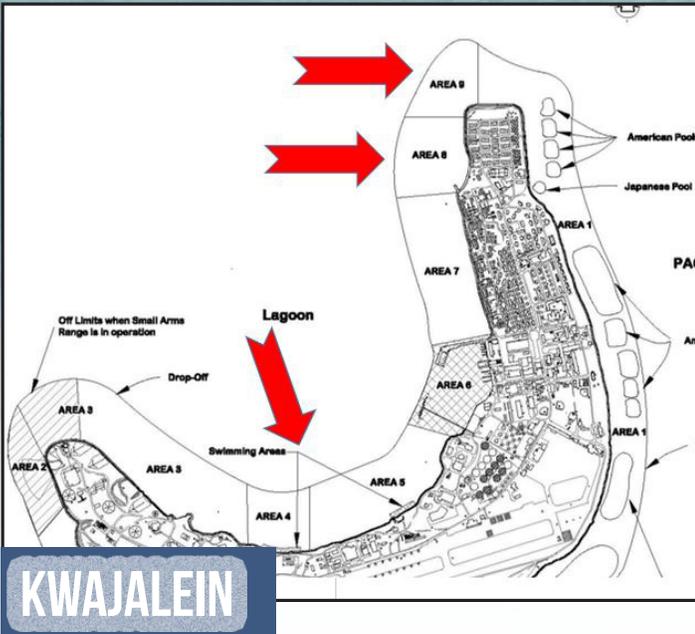


### Karaoke Night

Saturday, July 2  
Begins at 8 p.m.  
Oceanview Club  
Get ready to sing at this annual MWR event at the Oceanview Club for attendees aged 21 years and up.

# WHERE TO MAKE A SAFE SUMMER SPLASH

Check out the maps to become reacquainted with the safe swim zones around Kwajalein and Roi-Namur. Forward any questions to USAG-KA Safety at 5-1442 or FMWR at 5-3400.



The highlighted areas are the only unrestricted swimming areas at Kwajalein: Coral Sands, Camp Hamilton, Emon Beach and North Point. A flotation device is recommended 100 feet from shore and required for distances of more than 300 feet from shore. The buddy system or shore watch is required.

The highlighted areas are the only unrestricted swimming areas at Roi-Namur (Areas 1, 2, 3, 6, 12 and 13). A flotation device is recommended 100 feet from shore and required for distances of more than 300 feet from shore. The buddy system or shore watch is required.

## UXO HAZARD AWARENESS CLASSES

Kwajalein EOD conducts monthly UXO Hazard Awareness Classes on the first Wednesday of every month.

**WHAT?** 30-minute new hire and refresher UXO class explaining specific dangers on Kwajalein. Max 18 people per class.

**WHERE?** Bldg. 1025 (below Telemetry Hill)

**WHEN?** The first Wednesday of every month at 1 p.m. (minus holidays)

**HOW?** Call 5-1550 to register. Workshops can be conducted at different worksites to accommodate large groups of employees. Call to schedule.

## COVID Vaccine Waitlist

If you have children 6 months to 4 years old, contact Galean Rasmussen, US-AG-KA health systems specialist, at galean.v.rasmussen.civ@army.mil to be added to the vaccine waitlist.

### For adult COVID-19 booster shots

- You must be at least 12 years old to qualify for the adult booster shot.
- It must be at least five months since your last Pfizer or Moderna vaccine, or two months since your last Johnson & Johnson vaccine.
- Only island residents aged more than 50 years old are eligible for a second booster five months after the last one.

### For children's booster shots

- You must be at least five to 11 years old to qualify for the booster.
- It must be at least five months since your past Pfizer or Moderna vaccine, or two months since your last Johnson & Johnson vaccine.

## E-WARENESS: THE MARSHALL ISLANDS IS A SHARK SANCTUARY

### COMMUNITY CONNECTION

The RMI established a shark sanctuary in 2011, officially ending commercial fishing of sharks in 768,547 square miles of its waters.

The Marshall Islands' law includes the following: No commercial fishing of sharks or sale of any sharks or shark products; any shark caught accidentally by fishing vessels must be set free; fines up to \$200,000 for anyone found fishing for sharks or possessing shark fins; and no use of long-line fishing gear, which is among the most lethal to sharks.

Please, do everything possible to avoid catching sharks while fishing. If sharks are caught accidentally, attempt should be made to release them as safely as possible. Sharks should not be brought to the Small Boat Marina. If you have any questions, please call Vectrus Environmental at 5-1134.

Majol in ekar ejake juon kakien in kojbarok bako ilo 2011 non kabojrak eonod im wia kake bako jen 768,547 sq. miles in lojet eo itorerain. Kakein eo an Majol ej einwot: Ejjelok eonod bako ak wia kake jabdrewot bako ak part in bako; jabdrewot bako ko ekojok ej aikuj in karolok I; fine ilon lok non \$200,000 non jabdrewot eo ebo an eonod bako ak ewor ulul in bako ippen; en ejjelok ri-enwod ej kojjerbal wire leader ak eeo aetok im jabdrewot kein enwod bako.

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# COMMUNITY CLASSIFIEDS

The community wants to hear from you. Email announcements and advertisements to [kwajaleinhourglass@vectrus.com](mailto:kwajaleinhourglass@vectrus.com) Wednesdays by close of business. Ads received after deadline will be published in the next issue of The Kwajalein Hourglass.

## ARMY REGULATIONS

**TOBACCO USE.** USAG-KA Policy Memorandum 600-8 protects others from the negative impact of tobacco use. On USAG-KA, smoking is permitted in designated smoking areas only. Smoking and cigarette butt receptacles must be at least 50 feet from the entrance of facilities.

**CANDLES** and open flames are not permitted in BQ rooms. The Kwajalein Fire Department thanks you for keeping your neighbors safe.

**METAL DETECTORS** are not allowed on Kwajalein according to Army Regulation. Unexploded Ordnance exists and could be dangerous if disturbed. Contact Deirdre Wyatt-Pope at 5-1442.

Not allowed on USAG-KA: bow and arrow, air guns, paint ball and other projectile weapons. Please contact Deirdre Wyatt-Pope, USAG-KA safety officer, at 5-1442 with any questions.

## CLASSES

**ALCOHOLICS ANONYMOUS.** Open meetings for this group are Tuesdays at 6:30 p.m. in the REB, Room 213.

**BLDG. COORDINATOR TRAINING.** This training for building managers is required by AR 420-1. Kwaj training occurs on the first and third Wednesdays of each month at 10 a.m. in the Religious Education Building. Roi-Namur training occurs on the second Wednesday each month at 9:30 a.m. in C-building. Call 5-3364 to register.

**SMOKING CESSATION.** Ongoing smoking and tobacco cessation counseling is available. Call the EAP at 5-5362 or email [marybeth.mawicki@internationalsosgs.us](mailto:marybeth.mawicki@internationalsosgs.us) for more.

**DRIVER'S TRAINING & LICENSING PROGRAMS.**

Kwajalein Classes: Tuesdays, Wednesdays and Thursdays from 9 – 11 a.m. and 1 – 3 p.m.; Automotive Area, Bldg. 856, Room 103.

Roi Classes: Saturdays only, 9 – 11 a.m. and 1 – 3 p.m.; C-building Call 5-3291 to register. Class size is limited. Please bring a valid U.S., international or Marshall Islands license with you to class

## FACILITIES

**RACQUETBALL COURT CODE.** Residents can obtain the door code from the MWR Desk at the Grace Sherwood Library. The code will not be given out over the phone. Contact MWR at 5-3331 with questions.

## HELP WANTED

To research and apply for government employment opportunities on U.S. Army Garrison-Kwajalein Atoll and worldwide, visit [usajobs.gov](http://usajobs.gov). Write to [kwajalein.hourglass@amen-tum.com](mailto:kwajalein.hourglass@amen-tum.com) to remove your listing.

**AKIMA** is hiring for the following on-island positions: Communications Clerk (ID: TRU01101); Communications Specialist (ID: TRU01100); and Fiber / Cable Technician (ID: TRU01099). Applicants must currently reside on USAG-KA and possess a valid passport. For more information and a list of required qualifications, visit <https://akima.taleo.net>. Apply online or send resume to [Jeannette.McIlwain@jeannette.mcilwain@akima.com](mailto:Jeannette.McIlwain@jeannette.mcilwain@akima.com).

**ADMINISTRATIVE ASSISTANT.** This position provides daily administrative task support for operations at the Island Memorial Chapel. For questions or to submit a resume, please call 5-3505. Send to [kwajchapel@gmail.com](mailto:kwajchapel@gmail.com) and Ch. Brian Conner at [brian\\_conner@sbcglobal.net](mailto:brian_conner@sbcglobal.net).

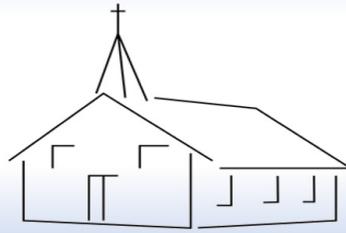
**CALIBRE** seeks a Military Material Specialist. For more information, or to apply, visit <https://jobs.silkroad.com/calibresys/https://calibresyscareers/silkroad.com/jobs/4013>.

**COMMUNITY BANK** seeks a banking center service specialist/teller. This is a part-time on-island hire position for 20 hours per week. Submit applications to [www.dodcommunitybank.com](http://www.dodcommunitybank.com). Call Camellia Bobo at 5-2292 for more information.

**INTERNATIONAL SOS** seeks a dental assistant and applicants for administrative positions. Send your resume to [marykathleen.bryan@internationalsos.com](mailto:marykathleen.bryan@internationalsos.com).

**KAIHONUA** is hiring for multiple positions. For more information or to apply, please contact Tribalco Hu-

## Roi Chapel Times Fridays at 6:30 p.m.



**Protestant Services**  
1<sup>st</sup> & 3<sup>rd</sup> Fridays

**Catholic Mass**  
2<sup>nd</sup> & 4<sup>th</sup> Fridays

man Resources at 5-4344 and visit <https://honuservices.jobs.net/page/kaihonua>. Applicants must meet job requirements.

**NAN, INC.** seeks a project engineer, welder, welding inspector, quality control manager, and site safety and health officer. To apply, visit [www.nanhawaii.com](http://www.nanhawaii.com) and contact Clint Ueatari or Kevin Short at 5-2632, 5-4995 or 5-4996.

**QUANTUM DYNAMICS, INC.,** is accepting resumes for positions on Kwajalein and Roi-Namur in the following areas: Vehicle Maintenance, Transportation Motor Pool, Movement Control, and Custodial. Please apply to specific opportunities at <https://qdyncorp.com/home/careers/> or contact Trina Romeo, HR Manager at 5-1509 (office phone), email: [tromeo@Qdyncorp.com](mailto:tromeo@Qdyncorp.com) or stop by Building 1071 (Emergency Operations Center) located at the southern end of Kwajalein.

**TRUESTONE** is hiring for multiple positions. Contact Tribalco Human Resources at 5-4344 and visit <https://www.akima.com/careers/>. Visit [www.tribalco.com/careers.html](http://www.tribalco.com/careers.html).

**RGNEXT, LLC** seeks qualified candidates to fill several open positions on Kwaj and Roi in engineering, technical and other areas. For information and to apply, go to [www.rgnext.com](http://www.rgnext.com).

**USAG-KA CYS** has openings for new employees and coaches. Required experience levels vary. All children

of head coaches play for free. Visit Central Registration or call 5-2158 in Building 356.

## NOTICES

**ISLAND ORIENTATION** and New-comer's Briefings take place in the Religious Education Building behind the Island Memorial Chapel. Email [KWAJ\\_OSO\\_Ops@Vectrus.com](mailto:KWAJ_OSO_Ops@Vectrus.com) or call 5-3511 to register.

**ARMA.** Log in to ArMa, the Army Maintenance Application, to report issues for all buildings maintained by the Department of Public Works. For more information, please contact DPW at 5-3550.

**COUNTRY CLUB & GOLF COURSE CLOSURE** through June 27. The Kwajalein Country Club and Golf Course are closed from 6 p.m. to 6 a.m. during the perimeter road closure. We apologize for this inconvenience and appreciate your patience.

**QUARTERLY INNOVATION CHALLENGE.** Send great ideas for improvements and innovations to Col. Tom Pugsley. Winners will receive an official innovator's award and a special AAFES gift card. To submit your idea, call the Commander's Hotline at 5-1098 or email USAG-KA Public Affairs Officer Mike Brantley, at [james-m.brantley4.civ@army.mil](mailto:james-m.brantley4.civ@army.mil).

**OPTOMETRIST APPOINTMENTS.** Call the Kwajalein Hospital to express your interest in securing a future optometry appointment at 5-2223.

## SCHOOLS UPDATES

In observation of the July 4 holiday, the Kwajalein School System will be closed Tuesday, July 5.

### Now Hiring Substitute Teachers

The Kwajalein School System is hiring part-time substitute teachers. These are part-time on-island hire positions with no guaranteed hours.

Minimum requirements include a four-year degree, love of working with children in grades K – 12 and confidentiality. A teaching certificate is preferred. A CNACI background check must be completed after receiving a job offer.

Those interested should apply at [Careers.Vectrus.com](http://Careers.Vectrus.com), search for "substitute teacher," or, send a resume and letter of application to [uhrenp@kwajalein-school.com](mailto:uhrenp@kwajalein-school.com).

## POOLS AND BEACHES SUMMER HOURS THROUGH AUG. 8

**Millican Family Pool**

**Lifeguard on duty**  
Tuesday, Wednesday,  
Friday and Saturday, 1 – 6 p.m.

**Sunday and Monday,**  
Noon – 6 p.m.

**Closed Thursdays for cleaning**

**Emon Beach Lifeguard on Duty**  
Tuesday – Saturday, 1 – 6 p.m.  
Sunday & Monday, noon – 6 p.m.

**Adult Pool**  
No Guard – Open 24/6  
Closed Fridays for cleaning  
Buddy swim recommended

## Peanut Butter Recall

The Centers for Disease Control and Prevention has posted a link on their website discussing the recall of Jif Peanut Butter. Read more at <https://www.cdc.gov/salmonella/senftenberg-05-22/index.html>. If you have a jar from the Surfway, please return it for a refund.



**Kwajalein Country Club & Golf Course Closure Now Through June 27**  
The Kwajalein Country Club and Golf Course are closed now through June 27 from 6 p.m. to 6 a.m. during the perimeter road closure. We apologize for this inconvenience and appreciate your patience.

**AUTOMOTIVE LICENSING.** The Automotive Licensing Office has moved to Bldg. 808. Please visit during regular hours of operation to complete license testing and documentation.

**COMMON ACCESS CARD OFFICE** is open Tuesday through Saturday from 8 a.m. to 4 p.m. Schedule appointments at <https://idco.dmdc.osd.mil/idco>.

**FLYROI.** FlyRoi has a new email address. Email [flyroi@wsp.com](mailto:flyroi@wsp.com) for work and space-A request forms.

The **SELF HELP CENTER** is in Bldg. 1791. Hours of operation are Monday, Wednesday, and Friday, 9:30 a.m. - 6 p.m. Visit Self Help for tools and materials for household upkeep projects.

**VACCINES.** A wait list for persons 12 years old and under for the COVID booster or for your first or second vaccine; or to vaccinate children aged 5- 11 years old, the list is now forming. Email Galean Rasmussen at [galean.v.rasmussen.civ@army.mil](mailto:galean.v.rasmussen.civ@army.mil) to get your child on the list.

**DON'T TAKE CULTURAL ARTIFACTS.** Remember, it is illegal to remove cultural resources from the atoll. This includes any protected species, unexploded ordnance, WWII-era artifacts and ancient Marshallese artifacts. These resources are protected under U.S. federal and RMI law. Please do not remove these pieces of atoll history from Kwajalein. For questions contact the Kwajalein Archaeology Office at 5-9502.

**CALL THE VET CLINIC.** Call 5-2017 or email the Veterinary Clinic at [kwajaleinveterinaryclinic@international-sosgs.us](mailto:kwajaleinveterinaryclinic@international-sosgs.us) to make an appointment.

**CART RENTALS.** All cart operations have moved to the Bowling Center on the first floor of Building 805. Call 5-3439 for more.

**EQUIPMENT.** When requesting a tent, two weeks' notice is required for dig permit approval. To request tables, linens, chairs, bounce houses, or MWR equipment, call 5-3331/3332 or visit the Grace Sherwood Library in Bldg. 805 Tuesday through Friday from 8 a.m. - 5 p.m.

**KWAJALEIN GIRL SCOUTS.** The Kwajalein Girl Scouts are open to all school-aged K-12 girls on Kwajalein (USAGSO.org). Membership fees are \$45. Also seeking adult volunteers. Contact Carrie Aljure at [whatacod@aol.com](mailto:whatacod@aol.com).

**TWO LIFEGUARDS REQUIRED.** For safety reasons, an extra lifeguard is required for parties held at the Millican Family Pool. Questions, or to reserve the pool, contact Cliff Pryor at [Clifford.PryorJr@amentum.com](mailto:Clifford.PryorJr@amentum.com) or 5-2848.

**MILITARY WORKING DOGS.** The community is advised to follow these tips for safety around military working dogs. WDs will conduct inspections at locations like BQs, transient facilities and other areas.

- Maintain a distance of five feet at all times.

- Do not attempt to pet or agitate the Working Dogs on patrol or at the K-9 kennel area
  - Follow all instructions from the Kwajalein Police Department and K-9 dog handlers at all times.
- Questions? Contact the Provost Marshal's Office at 5-2109, 5-8859 and 5-3530.



**Send in the ads!  
LET 'EM HAVE IT!**

**FOR MORE INFORMATION ABOUT ISLAND MEDIA, CONTACT THE USAG-KA PAO MIKE BRANTLEY AT 5-4848**

## RELIGIOUS SERVICES AT THE ISLAND MEMORIAL CHAPEL

*Join the congregations of the Island Memorial Chapel for weekly services and opportunities to join in fellowship and praise activities.*

*Be sure to keep an eye on Kwajalein social media for event announcements for the island's fellowship groups. Check out additional community services provided by the chapel team. Call 5-3505 to speak with a religious services team member about your specific worship needs.*

### PRAYER REQUESTS

Send prayer requests electronically to: [m.me/IMCKwajalein](mailto:m.me/IMCKwajalein)

### COUNSELING SESSIONS

Counseling sessions are available by appointment. Call 5-3505.

### PROTESTANT SERVICES

#### Early Sunday Services

Sunday, 8:15 a.m.  
Traditional Worship  
Small Chapel

#### Mid-morning Services

Sunday, 11 a.m.  
Contemporary Service  
Main Sanctuary

### CATHOLIC SERVICES

#### Morning Services

Sunday, 9:15 a.m.  
Main Sanctuary

#### Daily Mass

Tuesday through Friday  
5:15 p.m.  
Chapel office

#### Saturday Evening Mass

5:30 p.m.  
Small chapel

### ROI SERVICES

Protestant Services  
1st & 3rd Fridays  
at 6:30 p.m.

### CHAPEL ACTIVITIES

#### Night of Prayer and Praise

Join the Island Memorial Chapel for a night of worship. Event meets monthly at 7 p.m. on first Sundays in the IMC main sanctuary.



## NEW UNITED AIRLINES PRE-DEPARTURE COVID-19 TESTING RULE FOR ARRIVAL IN THE U.S. FROM ANY FOREIGN COUNTRY

**EFFECTIVE JUNE 10, PASSENGERS DO NOT NEED TO SHOW PROOF OF A NEGATIVE COVID-19 TEST BEFORE DEPARTING KWAJALEIN FOR HAWAII. WHILE THIS CENTER FOR DISEASE CONTROL AND PREVENTION ACTION REMOVES THE REQUIREMENT FOR AIRLINE PASSENGERS TO PROVIDE A NEGATIVE COVID-19 TEST PRIOR TO TRAVELING TO THE U.S., ALL OTHER CDC RESTRICTIONS RELATED TO INTERNATIONAL AIR TRAVEL REMAIN IN EFFECT, TO INCLUDE WEARING MASKS.**

# SUN-MOON-TIDES

	SUNRISE SUNSET	MOONRISE MOONSET	HIGH TIDE	LOW TIDE
<b>SUNDAY</b>	6:31 a.m. 7:09 p.m.	11:52 p.m. 11:06 a.m.	7:39 a.m. 4.2' 8:23 p.m. 2.9'	1:10 a.m. 0.4' 2:19 p.m. 0.3'
<b>MONDAY</b>	6:32 a.m. 7:09 p.m.	----- 12:00 p.m.	8:34 a.m. 3.8' 9:31 p.m. 2.8'	2:05 a.m. 0.8' 3:17 p.m. 0.6'
<b>TUESDAY</b>	6:32 a.m. 7:10 p.m.	12:36 a.m. 12:50 p.m.	9:38 a.m. 3.4' 10:49 p.m. 2.9'	3:13 a.m. 1.1' 4:21 p.m. 0.8'
<b>WEDNESDAY</b>	6:32 a.m. 7:10 p.m.	1:17 a.m. 1:38 p.m.	10:52 a.m. 3.1' -----	4:39 a.m. 1.3' 5:29 p.m. 0.9'
<b>THURSDAY</b>	6:32 a.m. 7:10 p.m.	1:56 a.m. 2:25 p.m.	12:05 a.m. 3.0' 12:08 p.m. 2.9'	6:11 a.m. 1.3' 6:30 p.m. 0.8'
<b>FRIDAY</b>	6:32 a.m. 7:10 p.m.	2:36 a.m. 3:11 p.m.	1:07 a.m. 3.3' 1:14 p.m. 2.9'	7:25 a.m. 1.1' 7:20 p.m. 0.7'
<b>JUNE 25</b>	6:33 a.m. 7:10 p.m.	3:16 a.m. 3:59 p.m.	1:55 a.m. 3.6' 2:07 p.m. 2.9'	8:19 a.m. 0.8' 8:03 p.m. 0.6'

# SHARP

SEXUAL HARASSMENT/ASSAULT RESPONSE & PREVENTION

CONTACT THE USAG-KA SEXUAL HARASSMENT/ ASSAULT RESPONSE AND PREVENTION VICTIM ADVOCATE



**Sgt. 1st Class Effie Banks**  
**SHARP Victim Advocate**  
**Work:** 805-355-0660  
 or 805-355-1419  
**USAG-KA SHARP Pager:**  
 805-355-3241 #0100  
**DOD SAFE Helpline:**  
 877-995-5247



**Work and play safely.**  
 For additional weather information, please click the logo to visit the RTS Weather Station online.

## RTS WEATHER STATION STAFF

### WEATHER DISCUSSION

A quiet end to the workweek could give way to occasional stormy weather over the weekend. The subtropical ridge in the lower altitudes will ensure moderate trades to prevail and keep shower coverage down for the most part; however, the wild card this weekend is an area of upper-altitude low pressure which, depending on its development and movement, could bring an elevated risk for lightning and some strong wind gusts.

Looking ahead to next week, the Intertropical Convergence Zone will lift into the central Marshalls, bringing elevated chances for rainfall and strong wind gusts from Tuesday afternoon into Thursday morning.

A lingering and weakened ITCZ looks to bring occasional showers for the remainder of the week.

### SATURDAY

Mostly sunny with stray showers. Winds NE-E at 11-17 knots with a few higher gusts.

### SUNDAY AND MONDAY

Partly sunny to occasionally mostly cloudy with widely scattered showers and isolated thunderstorms. Winds NE-E at 11-17 knots with strong gusts possible near showers and thunderstorms.

### TUESDAY THROUGH THURSDAY

Periods of showers and stray thunderstorms from Tuesday afternoon into Thursday morning, followed by isolated to widely scattered showers and a stray thunderstorm or two to close out the workweek. Winds NE-SE at 5-15 knots. Strong gusts possible, mainly on Tuesday.

## HOME SAFETY ON USAG-KA

### PUBLIC SAFETY ANNOUNCEMENT

Approximately 245 people die of injuries in and around their home every year. Falls, trips and slips are the leading cause of injuries in the U.S., in addition to electrical shocks and chemicals and poisons.

- Check smoke detectors regularly
- Use the right tool for the job
- Be cautious with ladders
- Wear protective wear when appropriate
- Place fire extinguishers in strategic places
- Avoid electrical risks
- Keep chemicals labeled and out of reach of children
- Keep house lit/clear of clutter and other trip hazards
- Submit a work order through ARMA
- Create an escape plan with the family

**HELP US PROTECT OUR MISSION. OPSEC DOESN'T END WHEN YOU PCS. PLEASE THINK BEFORE POSTING PHOTOS AND VIDEOS TO SOCIAL MEDIA.**

## RMI TRAVEL ISSUANCE #39



The Republic of the Marshall Islands government has insituted Travel Issuance 39. This travel restriction applies through June 30.

## UNITED AIRLINES FLIGHTS FOR JUNE - JULY

**Monday**  
 UA155 (HNL)  
 Check-in: 3:30 – 4:15 p.m.

**Tuesday**  
 UA154 (GUM)  
 Check-in: 10:45 – 11:15 a.m.

## Water Source

The U.S. Army Garrison - Kwajalein Atoll (USAG-KA) operates drinking water systems on Kwajalein, Roi-Namur, and Meck Islands. Collected & treated rainfall accounts for the majority of the water supplied by all three systems. Kwajalein and Roi-Namur also have extensive groundwater well systems to supplement the water supply during periods of low rainfall or drought. When necessary, Kwajalein can barge treated water to the other islands, supplementing their drinking water supplies.

Rainwater is the preferred source of water due to its purity and ease of collection. Kwajalein Atoll regularly receives more than 100 inches of rain a year. The runways and aircraft taxiways on Kwajalein, Roi-Namur and Meck are sloped to drain to collection sumps, which pump raw rainwater to storage tanks for treatment. Rain which falls on the island but is not collected or diverted to storm drains percolates through the coral sands of the islands and forms a thin layer (or lens) of fresh water floating atop the saltwater which flows through the islands. This water is tapped by unique horizontal wells called lens wells installed in the centers of both Kwajalein and Roi-Namur Islands where the lens is the thickest. The lens well water is pumped and then filtered by a Reverse Osmosis (RO) system. Following the 2008 storm event and the resulting saltwater infiltration to the freshwater lens, USAG-KA installed the RO filter on Roi-Namur. This unit makes it possible to treat water with high salinity. Four additional lens wells were installed on Roi-Namur in 2012 and 2013. Baseline monitoring for these wells began in 2014 and concluded in 2017.

Granular Activated Carbon (GAC) filtration units are used on Roi-Namur and Meck to filter treated water before it enters the distribution system. A similar unit was installed on Kwajalein in February 2021. All three of the USAG-KA drinking water systems use direct filtration processes to remove harmful particles, dirt, and algae from the water. Kwajalein, Roi-Namur, and Meck installed advanced filtration plants in 1990, 1996, and 2001, respectively. These automated filtration plants employ enhanced mixing, flocculation, and turbidity removal in absorption clarifiers followed by mixed media filters. The turbidity, or cloudiness, of the water entering the plants is continuously monitored and treatment chemicals are adjusted automatically to provide maximum filtering. Following filtration, the water is disinfected with chlorine and placed in covered tanks called 'clearwells' where it is pumped to the distribution system based on consumer demand. Fluoride is added to the treated water on Kwajalein to promote dental health.

The rainwater catchments and the shallow freshwater lens (less than ten feet below the surface) are very sensitive to contamination from spills. Because of this, tight restrictions are placed on airfield activities and a spill prevention program is in place to avoid contamination. Potential sources of contamination are fuel spills from aircraft and vehicles, leaks from sewage lines or septic tanks and improper management of hazardous materials, wastes, and petroleum products.

## ENGLISH U.S. Army Garrison Kwajalein Atoll

# 2021 Water Quality Report



Published by  
Vectrus  
for U.S. Army Garrison  
Kwajalein Atoll  
June 2022

The 2021 Water Quality Report is published in accordance with the USAKA Environmental Standards, which establishes drinking water criteria and requires suppliers to provide drinking water quality information to their customers. It is important that our customers know all the facts about USAG-KA's drinking water. This report, which will be issued each year, includes test results, source water descriptions, an overview of the treatment process and other valuable information relating to the quality of our installation's drinking water supply. If you have any questions regarding this report or your drinking water, contact the Liquid Systems Manager, Stan Jazwinski at 5-1847, or Environmental at 5-1134.

### EWOR UKOK IN REPORT IN ILO KAJIN MAJOL (Notice to all Marshallese):

Naan in jiron kein rej kwalok melele ko raurok kin dren in idrak eo ilo USAG-KA in. Ewor ukok in report in ilo kajin majol. Kir lok Environmental Department eo ilo 5-1134 kin melele ko relap lok.

**We are pleased to report the drinking water provided by USAG-KA consistently meets or exceeds the established water quality standards (with the exceptions noted on the following page) and is therefore safe for consumption.**

The Utilities Department collects over 10,000 samples annually to ensure water quality. Drinking water regulations require all public water supply systems to test for a variety of contaminants in drinking water. For many of the contaminants, the U.S. Environmental Protection Agency (EPA) has set enforceable standards for the maximum amount of contaminants allowed in drinking water. These standards are based on possible health effects of consuming the water. The standards are known as maximum contaminant levels (MCLs) and are published as national primary drinking water regulations.

MCLs are set at levels where no significant health effects would occur if water was consumed for an entire lifetime. In other words, a person would have to drink 2 liters of water every day at the MCL for a lifetime to have a one-in-a-million increase in the chance of having the described health effect. MCLs are set by the EPA, and then adopted by USAG-KA through the USAKA Environmental Standards (UES). The UES adopts MCL standards at least as stringent as EPA, and in some cases it has adopted more stringent standards. The UES requires USAG-KA to sample as if the size of the community served were 10,000 people. This increased sampling helps to ensure safe drinking water.

The EPA and the UES, also set Action Levels (AL). An AL is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements for water

systems. Examples of contaminants subject to an AL include Lead and Copper.

Water served by USAG-KA is tested by the Utilities Department, the Kwajalein Hospital and by the U.S. Army Public Health Center (APHC) in Aberdeen, Maryland. In addition, routine examinations of treatment plant performance are conducted, the distribution systems are routinely tested, and groundwater is tested for saltwater intrusion (which helps manage the thin groundwater lens by protecting it from being mixed with the saltwater on which it floats).

The Utilities Department works hard to provide top quality water to every tap. Please help us protect our water sources by using good water conservation practices and by using effective spill prevention.



Reverse Osmosis



Granulated  
Activated Carbon  
Filters

## Important Health Information

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. USAG-KA is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead). For more information, contact the Environmental Department at 5-1134.

## Monitoring the Lead in Housing

The U.S. Army issued an Operational Order for Garrisons to protect Soldiers, Civilians, and Family members from exposure to lead. USAG-KA complied by sampling High Risk Facilities (HRF—those facilities that provide drinking water to children under age six), and Army Family Housing (AFH) units during fiscal years 2019 through 2023. This project was separate from the routine water quality sampling, and was carried out by the Installation Management Command (IMCOM).

Sampling of the HRF and AFH units was completed in 2021. Corrective measures were implemented for facilities that exceeded the Lead Action Level (AL) of 15 ppb. Resampling has verified the drinking water was below the Lead AL.

## Per/Poly-Fluoroalkyl Substances Monitoring

Per/Poly-Fluoroalkyl Substances (PFAS) are a large group of man-made chemicals used in a broad array of consumer products and industrial processes. Manufactured since the 1940s, PFAS are resistant to heat, oils, stains, grease, and water. Therefore, these properties make them especially advantageous for use across a wide range of applications in many global industries, and are also why certain levels of these chemicals are persistent throughout the environment. PFAS residuals are present in nearly all industrial sites throughout the world, including Kwajalein Atoll. Most Americans have detectable levels in their bloodstreams.

PFAS is not an environmentally-regulated chemical under the US Army Kwajalein Atoll Environmental Standards (UES), nor under any EPA standards. Regardless, PFAS is classified as an "emerging contaminant of interest" by the DOD as it has received prominent, worldwide attention in the past few years. The primary health concern is drinking water. The DOD has required USAG-KA to regularly test the finished drinking water over the last few years. The results for finished water have always been below the EPA Lifetime Health Advisory (LHA) limit of 70 parts per trillion (ppt) either singularly or in combination with the two chemicals in the PFAS group [perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS)]. The 2021 testing verified the drinking water is safe, with a maximum of 3.8 ppt, well below the EPA LHA limit.

## Water Quality Monitoring

USAG-KA routinely monitors for constituents in your drinking water according to the UES and DEP for Drinking Water Treatment. Depending on the specific contaminant, the UES may require weekly, monthly, quarterly, annual, biennial, triennial, quadrennial, and novennial sampling intervals. The table on the right shows the most recent information on contaminants detected for the period of January 1, 2021 to December 31, 2021. If the contaminant is not listed on the table, results were below the minimum detection limit (MDL).

The following parameters were monitored during 2021:

- Aesthetic Constituents and Sodium
- Disinfection Byproducts [Total Trihalomethanes (TTHM) and Five Haloacetic Acids (HAA5)]
- Volatile Organic Chemicals (VOCs)
- Total Organic Carbon (TOC)
- Nitrate/Nitrite Combined
- Pesticides and Synthetic Organic Chemicals (SOCs)
- Inorganic Chemicals (IOCs)
- Lead and Copper
- Microbiological Contaminants
- Radiological Parameters
- PFAS group of substances

## Test Results

To help you better understand the terms and abbreviations in the table below, the following definitions are provided:

- Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Inorganic Contaminants** - Contaminants of mineral origin such as metals and salts.
- Maximum Contaminant Level (MCL)** - The highest level of a contaminant that is allowed in drinking water.
- Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are not regulatory limits.
- Microbiological Contaminants** - Very small organisms, such as bacteria, algae, plankton, and fungi.
- Minimum Detection Limit (MDL)** - The smallest quantity of a substance that can be detected by the analytical instrument.
- Not Tested (NT)** - Testing was not performed for this contaminant during the specified calendar year.
- Nephelometric Turbidity Units (NTU)** - The unit of measurement for the cloudiness or haziness of water.
- Organic Contaminants** - Naturally occurring or synthetic substances containing mainly carbon, hydrogen, nitrogen, and oxygen.
- ppm** - Parts of contaminant per million parts water. **ppb** - Parts per billion. **ppt** - Parts per trillion.

Substance (Unit of Measure)	MCL	MCLG	Kwajalein	Roi-Namur	Meck	Standards Met?	Possible Source
<b>ORGANIC CONTAMINANTS</b>							
TTHM (ppb) <sup>a</sup>	80	0	23 (5 - 45)	22 (22 - 26)	24 (3 - 18)	Yes	By-product of drinking water chlorination.
HAA5 (ppb) <sup>a</sup>	60	60	10 (1 - 18)	9 (2 - 11)	3.5 (0 - 5)	Yes	By-product of drinking water chlorination.
PFAS as PFOS+PFOA (ppt) <sup>d</sup>	NA	70	0 - 3.8	0	0	Yes	Aqueous Film-Forming Foam (AFFF) used in firefighting applications
<b>INORGANIC CONTAMINANTS</b>							
Barium (ppm) <sup>b</sup>	2	2	0.003	0.001	0.021	Yes	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride (ppm) <sup>b</sup>	2	2	0.75	<MDL	<MDL	Yes	Erosion of natural deposits; Water additive which promotes strong teeth (Kwajalein only); Discharge from fertilizer and aluminum factories.
Lead, ppb 90 <sup>th</sup> percentile value <sup>c</sup> (# of times AL exceeded)	15 (AL)	0	5.1 (0)	<MDL (0)	6.6 (0)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper, ppb 90 <sup>th</sup> percentile value <sup>c</sup> (# of times AL exceeded)	1300 (AL)	0	100 (0)	76 (0)	24 (0)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits.
<b>RADIOLOGICAL PARAMETERS [Shown in units of pCi/L]<sup>d</sup></b>							
Gross Alpha Particle Activity	15	0	-1.2E-001	1.6E-01	-1.2E-01	Yes	Erosion of natural deposits.
Radium-226 and Radium-228	5	0	5.6E-02	1.3E-01	8.3E-02	Yes	Naturally present in environment.
Gross Beta Particle Activity	50	0	6.0E-001	1.7E-01	6.4E-01	Yes	Decay of natural and man-made deposits.
Tritium	20,000	0	-1.0E+02	-3.2E+01	4.4E+00	Yes	Naturally present in environment.
Strontium-90	8	0	5.6E-02	3.9E-01	2.1E-01	Yes	Widely dispersed in the environment as a result of global nuclear activity.
<b>MICROBIOLOGICAL CONTAMINANTS</b>							
Coliform Bacteria <sup>e</sup> (Positive samples/month)	TT	N/A	0	0	0	Yes	Naturally present in environment.
<i>E. coli</i> <sup>e</sup> (Positive samples/month)	TT	N/A	0	0	0	Yes	Naturally present in environment.
<b>TURBIDITY</b>							
Turbidity (NTU) <sup>f</sup>	>95% ≤0.3	100%	98.8%	100.0%	100.0%	Yes	Soil runoff
	1	0	0	0	0	0	

### Table Notes:

- a** - Under the Stage 2 Disinfection Byproducts Rule (DBPR) for TTHM and HAA5, systems must report the highest Locational Running Annual Average (LRAA) and the range of quarterly results (for all locations).
- b** - Testing for inorganic contaminants (with the exception of lead and copper) is on a three-year cycle. Results shown are from 2021 testing.
- c** - Compliance for lead/copper is determined by the 90<sup>th</sup> percentile values (the AL for lead/copper is exceeded if the concentration in more than 10 percent of tap-water samples collected during any monitoring period is higher than the AL). The 90<sup>th</sup> percentile value and the number of sampling sites exceeding the AL (in parentheses) are shown.
- d** - Gross alpha/beta results shown are from 3QFY20. Gross alpha is required every two years; gross beta is required every three years. USAG-KA samples for both every two years. Next sampling will occur in 3QFY22. Note that Radium-226 & Radium-228 results are from 3QFY2018. Values may be negative due to both the low radioactivity of the sample and the calculations prescribed in the analytical method (EPA 900, SM 306, SM 303, ASTM D 5174, etc.).
- e** - Each water system is tested weekly for coliform bacteria and *Escherichia coli* (*E. coli*) at multiple sampling sites. In the event of a positive result, repeat samples are taken within 24 hours at the original site and upstream and downstream from the original site.
- f** - Turbidity levels must be less than or equal to 0.3 Nephelometric Turbidity Units (NTUs) in at least 95% of monthly samples and shall at no time exceed 1 NTU. For 2021, the lowest monthly percentage for compliance with >95% and the highest monthly count for samples exceeding the 1 NTU limitation are shown.
- g** - Per- & Polyfluoroalkyl substances (PFAS) are a class of manmade chemicals used in a broad range of consumer products and industrial processes. They are highly resistant to degradation and bioaccumulate in the environment. Currently, the EPA has established a Lifetime Health Advisory (LHA) limit of 70 ppt in drinking water for two specific chemicals within this class: perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS).

**Bold and highlighted indicates an exceedance in the MCL, MDCL, or AL.**

The polyacrylamide used at USAG-KA (Superfloc N-300LMW) as part of the drinking water treatment operations is certified by the National Sanitation Foundation as complying with the requirements for percent monomer and dosage as contained in the UES and 40 CFR 141.111.

## Ia Eo Ej Itok Dren Jen E

Dren in idrak eo ion USAG-KA in ej itok jen dren in wot eo emoj ae ion Kwajalein, Roi-Namur, im Meck. Drenin wot ko emoj ae, wunoiki, im kebooje nan aer jermal ilo ene kein jilu. Ilo ien mora ak anonean, ewor aiboj lal ko relap ilo Kwajalein im Roi Namur im rej kojerbali non ien rot kein. Ilo ien aikuj, Kwajalein emaron bar kanne barge kin drenin drak im jilkinlok nan aeto ko jet rej aikuji.

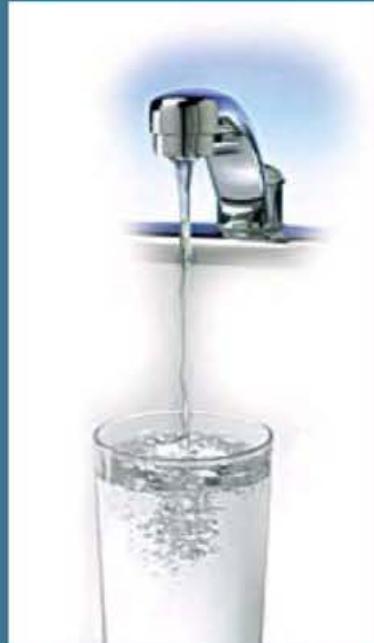
Dren in wot ej dren eo eman tata nan kojerbal ilo USAG-KA itok wot jen an bidodo ae im erre. Ilo juon yio, Kwajalein ej loe tarin 100 inij in wot. Jikin jook an baluun ilo Kwaj, Roi-Namur im Meik rej rejbal nan ae dren in wot. Jen ijion, dren in ej pump lok non tank kan im kottar non ien liklik im komat. Jabdrewot dren in wot ko rejjab collect ilo jikin jook ko an baluun, im rejjab bar drebdreb ilo storm drain ko, rej drebil lok im pepe ion dren in salt, eo ej peddejake aolepen enne kein. Dren in ej drebdreb ilo jikin ko naeter lens well, ko emoj likiti ilo iolap in Kwajalein im Roi-Namur. Lens well kein rej pump jeni im kojerbal kein liklik ak reverse osmosis. Emoj kelaak reverse osmosis ilo Roi-Namur ilo 2008 elkin kar koto im ekar koman an dren in salt dreton ilo lens well ko. Unit in ekoman an bidodo aer treat i dren ko im elap aer salt. Rekar bar kob 4 aiboj lal ilo Roi Namur ilo 2012 im 2013. Jermal in etale im bukot jonak ko rej aikuji loori (baseline monitoring) renaj jino koman ilo aiboj lal kein ilo 2014 im kotmene bwe en bojrak ilo 2017.

Filter unit ko ak kein drebdreb etoon ko naetan Granular Activated Carbon (GAC) rej jermal ion Roi-Namur im Meck nan bour etton ko ilo dren eo mokta jen an etal nan jikin komman dren eo. Ewor juon unit kaal emoj kolaake ilo Kwajalein February 2021. Aolep jikin koman dren kein jilu ilo USAG-KA rej kojerbal jokjok in likilik dren eo rej nae etan direct filtration process nan karreoki dren jen etoon im kij ko. Rekar kelaak kein liklik dren ilo enne kein ilo: Kwajalein 1990; Roi-Namur 1996; im Meck 2001. Kein liklik dren in idrak eo ej karreo im kojerbal jerajko non mane kij im jabdrewot etoon ko ie mokta jen likiti ilo tank ko naetaer "clearwells", ijo rej bed ie non tore eo jej aikuji. Rej bar kobaik fluoride nan dren nan kakajoor ni.

Ijoko rej ae dren in wot im aiboj lal rejjab mulal (rejjab mulal lak jen 10 ne) rebidodo an kare dren eo ne elon lutok. Emenin aurok bwe en wor buntan ko kab jokjok ko rej walok elane enaj wor lutok ko rejdrimkij an men ko rekauwatata, einwot fuel, oil, gas im bareinwot kwobej ko rekauwatata im petroleum products.

## MARSHALLESE U.S. Army Garrison Kwajalein Atoll

### 2021 Water Quality Report



Published by  
Vectrus  
for U.S. Army Garrison  
Kwajalein Atoll  
June 2022

Ilo 2021 Water Quality Ripoot eo ej koman ekkar non kakien ko emoj karroki ilo USAKA Environmental Standards (UES) eo, eo ej kamelet bwe ro rej leto-letak dren in idrak (aiboj) ren loori jonak ko emoj karroki im bareinwot tilmake melele ko raurok non ro rej idrak jen aiboj eo. Ilo melele kein, ebareinwot koba result in teej ko, jikin ko aiboj in ej itok jeni, im wawein process e aiboj in, im bar melele ko jet. Elap an aurok bwe ro rej idrak jen aiboj in ren jela im melele kin aiboj eo rej idrake jen USAG-KA. Elane ewor am kajitok ak abnono kake melele kein ilo ripoot in ikkijeen aiboj eo kwoj ilimi, jouj im kebak e lok Stan Jazwinski ilo 5-1847, ak komaron in bar bojrak lok ilo Utilities Department eo elane jab, ekwe call e Environmental ilo 5-1134.

#### EWOR UKOK IN RIPOOT IN ILO KAJIN BELLE:

Naan in karon kein rej kwalok melele ko raurok kin dren in idrak eo ilo USAG-KA. Ewor ukok in ripoot in ilo kajin belle. Kir lok Environmental Department eo ilo 5-1134 kin melele ko relap lok.

**Emenin utiej buru non kwalok ke dren in idrak eo letok in USAKA ej tobare jonok ko emoj karroki non dren in idrak kin men in, ejjelok uwota ilo ilimi dren eo jen aolep bojet in dren in idrak ko.**

Aolep yio, Utilities Department eo ej boke tarin 10,000 sample in dren in idrak eo ilo USAG-KA in non lolorjake bwe tiljek in komane aiboj in jej idrak jene en erre. Kakien ko rej kipel bwe ro rej leto-letak dren in idrak ren teej e dren eo non lale ewor ke jabdrewot men ko retoon ie, ko me remaron in bed ilo dren in idrak eo. Result in teej ko an dren ko rej bedbed wot ion jonak ko emoj an U.S. Environmental Protection Agency (PA) eo karroki. Jonak kein rej naetaer Maximum Contaminant Levels ak MCLs.

MCLs ko rej bedbed wot ion jonak ko me rejjab maron in kwalok naninmij non armij. Juon armij emaron idraak e ruo liter in dren ilo aolepen mour eo an im jab naninmej jen e, ak emaron lon an juon mottan juon million ien bwe en ione naninmij. Jonak kein rej itok jen EPA innem USAG-KA ej loori ikijen USAKA Environmental Standards (UES) ko. UES kein rej bedbed ion karrok ko an MCL, im jet ien emaron laplok aer pen jen karrok ko an EPA. UES kein rej bareinwot konan bwe USAG-KA en komman jonan jambol ekkar nan an maron lelok nan 10,000 armej. Jonan lap im jambol in enaj jiban elane aolep armej raikuj nimeir drenin drak.

Emoj an EPA im UES karrok jet bunten ko naetan Action Level (AL). AL in ej jermal non lale jonan etoon ko ilo dren eo, bwe ne relaplok jen jonak eo emoj karroki innem renaj aikuji in treat i im karreoki

dren eo ekkar nan kakien ko. Waan jonak in etoon ko remaron loi ej enwot lead im koba (copper).

Utilities Department, USAG-KA Hospital, im US Army Public Health Center (APHC) in Aberdeen, Maryland ej droulul ko jilu rej teej e aiboj in idrak eo ion USAG-KA. Ibben jikin jermal kein jilu, USAG-KA ej bareinwot make etale tiljek in an jikin kein koman dren eo jermal, koman teej ko remakijkij non lolorjake erre eo an dren in idrak eo ej driwojlok, im bareinwot lale bwe jool en jab tobare aiboj lal eo.

Jikin koman dren eo ej jermal non letok dren in idrak eo etiljek im erre. Jiban kejbarok dren in idrak eo nimed. Jukjuk in bed in ad, mour kein ad, kab an ro nejid rej bedbed ion kejbarok in am. Bok konam; kejbarok dren in idrak eo ilo wawein ko rekkar.



Reverse Osmosis Units



Granulated  
Activated Carbon Filters

**Melele Ko Raurok Ikkijeen Ejmour**

Aolep dren in idrak ko, ebar kobalok dren ko ilo bato ak plastic ko, emaron in wor jiidridrik in men ko retoon ie. Ijo wot ke, elap an aurok bwe jen kemejmej bwe mene ewor men kein retoon ilo dren in idrak eo jej ilimi, ejab melele in ke jemaron in naninmij jen dren eo. Kir lok Environmental Protection Agency Safe Drinking Water Hotline (800-426-4791) non boki melele ko relaplok.

Aolep dren in idrak ko (ko im rej itok jen bojet im ko ilo bato in aiboj) rej itok jen reba, lake, streams, ponds, reservoirs, springs im aiboj lal. Ilo an dren emakitkit ion enne ak ilo bulon lal, ej koba lak jet minerals ie, jet ien ej lon baijin ko jen radioactive material eo im ej itok jen menin mour ko ak armej. Ewor jet armij emojno anbwiniar. Amij rein ewor aer naninmij enwot cancer im rej chemo, ak ro im ej kab moj aer mwijmwij, ro rej HIV/AIDS im ro ewor aer naninmij in jiron im likao, ro reritto, im bareinwot ninnin ko. Armij rein rej aikuj in kebaak jikin takto ko aer im bok melele. EPA/CDC guidelines ko kin infection in cryptosporidium im kij ko jet rej bed ilo Safe Drinking Water Hotline.

Elane elap im lon lead enaj komman joreen ko relap nan ejmour, akka an bar walok nan kora ro rej bororo im ajiri jiidrik ro. Lead ko ekkar aer walok ilo dren in idraak ko rej itok im walok jen pipe ko inabojen im iloon imoko jej jokwe ie. Ej an USAG-KA eddo nan kotoor im lewaj dren in idraak eo erre, ak ejjab maron in loe, etale, jela im eddoiki kain men drikdrik ko rej dreloin im bed iloon pipe ko. Elane dren ko ilo pipe ko renaj etolok aer toor ilo kotoan eo aetok, kwomaron in komman bwe kwon jab joreen jen lead koi lo am kotoore im kadriwojlok jen bojet eo am iuumin 30 second ko lok nan 2 minute ko mokta jen am naj kojerbal dren eo nan idraak ak komman mona kake. Elane ewor am uwota im inebata kin lead ilo dren eo kwoj aikuj in etale mokta. Melele ko jet kin lead ilo dren in idraak ko, kilen im wawein etale, im bunten ko nan jolok im kadriwojlok joreen ko nae dren ej alikar ilo Safe Drinking Water Hotline ak ilo [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead). U.S. Army emoj an kadriwojlok juon kilen ak wawein eo einwot Operational Order nan army garrisons nan etale aolep dren ilo ijokein ralikkaar (ijoko im rej kojerbal dren im kadriwojlok im lelak dren in idraak ko nan ajiri ro ilal in jilijino yio drettaer) Army Family Housing ikijeen lead ilo dren in idraak ko iloon fiscal year ne 2019 nan 2023. Nan melele ko jet, jouj im kir lok Environmental Department ilo 5-1134.

**Moko Ewor Lead Ie Rej Lali**

Ewor jet kain karrok ko emoj an Army kommani nae aolep Garrison nan kejbaroke ritarinae, armej im bamle ko ie jen aer jelmae leet ilo drenin drak ko aer. USAG-KA ej lori ilo an komman jambol in High Risk Facilities (HRF— nan moko rej keidraak ajiri ro lalin jilijino yio.), bareinwot jambol in Army Family Housing (AFH) nan unit ko kajojo jen fiscal yio 2019 mae 2023. Purajee in ej eddo eo an Installation Management Command (IMCOM) eo im ejenolak jen jeral ko jet rej bareinwot komman jambol in dren.

Ewor jambol in HRF im AFH rar komman ilo unit ko ilo yio eo 2021. Im ear wor menin kajimwe im kokmanmanlok ko rar kommani ilo unit ko elaplok jen 15 ppb leet Action Level (AL) ilo dren ko ie. Elikin, rar bar komman jambol nan etale dren eo im rar loe bwe edriklok jen jonan leet Action Level (AL) eo ie.

**Per/Poly-Fluoroalkyl Substances Monitoring**

Per/Poly-Fluoroalkyl Substances (PFAS) ej kobban komikol ko armej ej kommani im wia kaki. PFAS kein rar jino kojerbali ilo 1940 ko, kin an emman aer bobrae jen bwil/okmaan, weil, maar, kuriij, im dren. Eja kin un kein wot ej kalikar aurok in PFAS ko nan elon jikin jeral relap ibelakin lal in kab jukjakin ped ko. Elon kain PFAS/Komikol ko jej bar kojerbali ion Kwajalein Atoll. Im ej unin an won armej in Amedka elon komikol kein ilo botoktokier.

PFAS ejjab juon kauwotata eo ilo kabijuknen ko uumin US Army Kwajalein Atoll Environmental (UES), im ejelet ekkar ko bar ilo EPA. Ijelokin wot ne, PFASej nojak wot ilo melele ko ke "dren in draak ko retoon ak poison" jen DODEinowt an alikar ilo melele ko, iloon lal in ilo elon yio ko. Men eo elap adkolmenlokijen kake ej dren ko nime. DOD ej kemlet USAG-KA nan kommane im etaleim test e dren in idraak eo ej driwojlok nan idraak ilo aolep yio. Etale kein rej driwojlok ilo melele ko elkinetale kein ke dren in idraak eo enanin aolep ien ej bed ilal in bonbon ko rejjabkauwotata im rej edde ilo EPA Lifetime Health Advisory (LHA) limit of 70 partsper trillion (ppt) ekoba aolep chemical ko jimor ruo ilo PFAS group [perfluorooctanoic acid (PFOA) im perfluorooctane sulfonic acid (PFOS)]. Ilo yio ne 2021 keinetale ko rekar kwalok im kalikar bwe dren in idraak eo erre im emon nan idraak, iloon jonok eo elap ej 3.8 ppt, im ej bed ilal in EPA LHA limit eo.

**Aurok Eo Ken Jeral in Dren**

USAG-KA ej teej e im etale dren in idrak eo kwoj ilimi non lala ewor etoon ke dren eo, ekkar non kakien ko ilo UES eo im DEP nan Drinking Water Treatment. Ekkar non jonan etoon ko ilo dren in idrak eo, UES enaj letok ien etale. Ewor etoon ko jej teeji aolep alon, kuwata, yio, ak lok in jilu yio. Jaat in ilal ej kwalok melele ko ikkijeen men ko retoon rar bed ilo dren in idrak eo ion USAG-KA in ilo kotan in January 1, 2021 non December 31, 2021. Elane etoon kein rejjab walok ilo jaat in, melelein ke rar bed ilal in jonak ko redrikata emoj karroki ak minimum detection limit (MDL).

Ijin ilal ej lajra kin men ko rekar teeji im etali ilo 2021:

- Aesthetic Constituents and Sodium;
- Disinfection Byproducts [Total Trihalomethanes (TTHM) and Five Haloacetic Acids (HAA5)];
- Volatile Organic Chemicals;
- Total Organic Carbon;
- Nitrate/Nitrite Combined;
- Lead and Copper;
- Microbiological Contaminants;
- Radiological Parameters;
- PFAS group of substances

**Tarlep in teej ko rej kemlet bwe dren eo ion USAKA emon non idrak**

Non jiban yuk melele ken naan in kamelele ko aer ilo jaat in ilal, errein ej melele ko emoj kollajraki: **Action Level** - AL in ej jeral non lala jonan etoon ko ilo dren eo, bwe ne relaplok jen jonak eo emoj karroke innem renaj aikuj in treat i im karroek dren eo ekkar nan kakien ko.

**Inorganic Contaminants**- Etoon in mineral im ej itok jen aen im jool  
**Maximum Contaminant Level** - Jonak eo ilontata ikkijeen etoon ko rej walok ilo dren in idrak ko im emoj an EPA karroke.  
**Maximum Contaminant Level Goal** - Jonak in etoon in dren in idrak eo im ejjab jelet ejmour eo an armij. MCGLs ej nan kakkol wot ak ejjab rubwe jonak ko emoj an EPA karroki.  
**Minimal Detection Limit (MDL)**- Jonak ko redrikdrik im rej loi ne rej kojerbal kein teej dren eo.  
**Microbial Contaminants**- Etoon im kij ko ejjab maron loi einwot bacteria, algae, plankton im fungi.  
**NT** - Rar jab tej e - rar jab koman kakolkol in tej nan contaminant in.  
**Nephelometric Turbidity Units (NTU)**- Jonak eo rej kojerbal nan measure e lim in dren eo.  
**Organic Contaminants** - Kij ak etoon kein akka aer walok ilo koto ko jej emenonoiki einwot carbon, hydrogen, nitrogen, im oxygen.  
**ppm** - jonan mottan in etoon, kij ak chemical ko rej loi iloon million particulates in dren; **ppb** - jonan mottan in etoon, kij ak chemical ko rej loi iloon billion particulates in dren; **ppt** - jonan mottan in etoon, kij ak chemical ko rej loi iloon trillion particulates in dren

Substance (Unit of Measure)	MCL	MCLG	Kwajalein	Roi-Namur	Meck	Standards Met?	Possible Source
<b>ORGANIC CONTAMINANTS</b>							
TTHM (ppb) <sup>a</sup>	80	0	23 (5 - 45)	22 (22 - 26)	24 (3 - 18)	Yes	By-product of drinking water chlorination.
HAA5 (ppb) <sup>a</sup>	60	60	10 (1 - 18)	9 (2 - 11)	3.5 (0 - 5)	Yes	By-product of drinking water chlorination.
PFAS as PFOS+PFOA (ppt) <sup>g</sup>	NA	70	0 - 3.8	0	0	Yes	Aqueous Film-Forming Foam (AFFF) used in firefighting applications
<b>INORGANIC CONTAMINANTS</b>							
Barium (ppm) <sup>b</sup>	2	2	0.003	0.001	0.021	Yes	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride (ppm) <sup>b</sup>	2	2	0.75	<MDL	<MDL	Yes	Erosion of natural deposits; Water additive which promotes strong teeth (Kwajalein only); Discharge from fertilizer and aluminum factories.
Lead, ppb 90 <sup>th</sup> percentile value <sup>c</sup> (# of times AL exceeded)	15 (AL)	0	5.1 (0)	<MDL (0)	6.6 (0)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper, ppb 90 <sup>th</sup> percentile value <sup>c</sup> (# of times AL exceeded)	1300 (AL)	0	100 (0)	76 (0)	24 (0)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits.
<b>RADIOLOGICAL PARAMETERS</b> [Shown in units of pCi/L] <sup>d</sup>							
Gross Alpha Particle Activity	15	0	-1.2E-001	1.6E-01	-1.2E-01	Yes	Erosion of natural deposits.
Radium-226 and Radium-228	5	0	5.6E-02	1.3E-01	8.3E-02	Yes	Naturally present in environment.
Gross Beta Particle Activity	50	0	6.0E-001	1.7E-01	6.4E-01	Yes	Decay of natural and man-made deposits.
Tritium	20,000	0	-1.0E+02	-3.2E+01	4.4E+00	Yes	Naturally present in environment.
Strontium-90	8	0	5.6E-02	3.9E-01	2.1E-01	Yes	Widely dispersed in the environment as a result of global nuclear activity.
<b>MICROBIOLOGICAL CONTAMINANTS</b>							
Coliform Bacteria <sup>e</sup> (Positive samples/month)	TT	N/A	0	0	0	Yes	Naturally present in environment.
<i>E. coli</i> <sup>e</sup> (Positive samples/month)	TT	N/A	0	0	0	Yes	Naturally present in environment.
<b>TURBIDITY</b>							
Turbidity (NTU) <sup>f</sup>	>95% ≤0.3	100%	98.8%	100.0%	100.0%	Yes	Soil runoff
	1	0	0	0	0	0	

**Table Notes:**

- a** - Under the Stage 2 Disinfection Byproducts Rule (DBPR) for TTHM and HAA5, systems must report the highest Locational Running Annual Average (LRAA) and the range of
- b** - Testing for inorganic contaminants (with the exception of lead and copper) is on a three-year cycle. Results shown are from 2021 testing.
- c** - Compliance for lead/copper is determined by the 90<sup>th</sup> percentile values (the AL for lead/copper is exceeded if the concentration in more than 10 percent of tap-water samples
- d** - Gross alpha/beta results shown are from 3QFY20. Gross alpha is required every two years; gross beta is required every three years. USAG-KA samples for both every two years. Next sampling will occur in 3QFY22. Note that Radium-226 & Radium-228 results are from 3QFY2018. Values may be negative due to both the low radioactivity of the sample and the calculations prescribed in the analytical method (EPA 900, SM 306, SM 303, ASTM D 5174, etc.).
- e** - Each water system is tested weekly for coliform bacteria and *Escherichia coli* (*E. coli*) at multiple sampling sites. In the event of a positive result, repeat
- f** - Turbidity levels must be less than or equal to 0.3 Nephelometric Turbidity Units (NTUs) in at least 95% of monthly samples and shall at no time exceed 1 NTU. For 2021, the lowest monthly percentage for compliance with >95% and the highest monthly count for samples exceeding the 1 NTU limitation are shown.
- g** - Per- & Polyfluoroalkyl substances (PFAS) are a class of manmade chemicals used in a broad range of consumer products and industrial processes. They are highly resistant to degradation and bioaccumulate in the environment. Currently, the EPA has established a Lifetime Health Advisory (LHA) limit of 70 ppt in drinking water for two specific chemicals within this class: perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS).

**Bold and highlighted indicates an exceedance in the MCL, MDCL, or AL.**

The polyacrylamide used at USAG-KA (Superfloc N-300LMW) as part of the drinking water treatment operations is certified by the National Sanitation Foundation as complying with the requirements for percent monomer and dosage as contained in the UES and 40 CFR 141.111.