MONTHLY PROGRESS REPORT #337
FOR APRIL 2025

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 and 1-2000-0014

JOINT BASE CAPE COD (JBCC)
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from 01 to 25 April 2025.

1. SUMMARY OF REMEDIATION ACTIONS

Remediation Actions (RA) Underway at Camp Edwards as of 25 April 2025:

Demolition Area 1 Comprehensive Groundwater RA

The Demolition Area 1 Comprehensive Groundwater RA consists of the removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. Extraction, treatment, and recharge (ETR) systems at Frank Perkins Road, Base Boundary, and the Leading Edge include extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and injection wells to return treated water to the aquifer.

The Frank Perkins Road Treatment Facility has been optimized as part of the Environmental and System Performance Monitoring (ESPM) program at Demolition Area 1. On 31 March 2025, the flow rate at the Frank Perkins Treatment Facility was reduced from 175 gallons per minute (gpm) to 100 gpm as a result of shutting down extraction well D1-EW-501, leaving only D1-EW-4 pumping as part of the Frank Perkins Road system. As of 25 April 2025, over 3.165 billion gallons of water were treated and re-injected. No Frank Perkins Road system shutdowns occurred in April.

The Base Boundary Mobile Treatment Unit (MTU) continues to operate at a flow rate of 65 gpm. As of 25 April 2025, over 432.0 million gallons of water were treated and re-injected. No Base Boundary system shutdowns occurred in April.

The flow rate at the Leading-Edge system was increased from 100 gpm to 125 gpm on 26 September 2024 based on regulatory agency concurrence with the 26 September 2024 Demolition Area 1 Extraction Well 5 (EW-5) Optimization presentation. As of 25 April 2025, over 453.2 million gallons of water were treated and re-injected. The following Leading-Edge system shutdowns occurred in April:

- 1323 on 27 April 2025 due to a power interruption and was restarted at 0843 on 28 April 2025.

The Pew Road MTU was turned off with regulatory approval on 08 March 2021 (formerly operated at a flow rate of 65 gpm). Over 672.9 million gallons of water were treated and re-injected during the RA.

J-2 Range Groundwater RA

Northern

The J-2 Range Northern Treatment facility consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The Extraction, Treatment, and Re-infiltration system includes three extraction wells, an ex-situ

treatment process to remove explosives compounds and perchlorate from the groundwater, and an infiltration basin to return treated water to the aquifer.

The Northern MTUs E and F continue to operate at a flow rate of 250 gpm. As of 25 April 2025, over 2.319 billion gallons of water have been treated and re-injected. The following MTU E and F system shutdowns occurred in April:

- 0251 on 18 April 2025 at MTU E due to a communication loss with J2EW0001 from a faulty input module at the extraction well and was restarted at 1031 on 18 April 2025.
- 1323 on 27 April 2025 at MTUs E and F due to a power interruption and were restarted at 0943 on 28 April 2025.
- 0950 on 28 April 2025 at MTU E due to an “inlet low flow” alarm and was restarted at 1157 on 28 April 2025.

The Northern Treatment Building G continues to operate at a flow rate of 225 gpm. As of 25 April 2025, over 1.805 billion gallons of water have been treated and re-injected. The following MTU G system shutdowns occurred in April:

- 0912 on 28 March 2025 due to observed mechanical issues. The system will remain off until further diagnostics are performed, and a new pump/motor is installed, or other measures are taken.

Eastern

The J-2 Range Eastern Treatment system consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and perchlorate. The ETI system includes the following components: three extraction wells in an axial array, an ex-situ treatment process consisting of an ion exchange (IX) resin and granular activated carbon (GAC) media to treat perchlorate and explosives compounds, and three infiltration trenches located along the lateral boundaries of the plume where treated water enters the vadose zone and infiltrates into the aquifer. The J-2 Range Eastern system is running at a combined total flow rate of 495 gpm.

The MTUs H and I continue to operate at a flow rate of 250 gpm. As of 25 April 2025, over 1.963 billion gallons of water have been treated and re-injected. No MTU H and I system shutdowns occurred in April.

MTU J continues to operate at a flow rate of 120 gpm. As of 25 April 2025, over 921.3 million gallons of water have been treated and re-injected. No MTU J shutdowns occurred in April.

MTU K continues to operate at a flow rate of 125 gpm. As of 25 April 2025, over 1.053 billion gallons of water have been treated and re-injected. No MTU K shutdowns occurred in April.

J-3 Range Groundwater RA

The J-3 Range Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The ETR system includes four extraction wells, an ex-situ treatment process to remove explosives

compounds and perchlorate from the groundwater and utilizes the existing Fuel Spill-12 (FS-12) infiltration gallery to return treated water to the aquifer.

The J-3 system is currently operating at a flow rate of 255 gpm. As of 25 April 2025, over 1.952 billion gallons of water have been treated and re-injected. No J-3 system shutdowns occurred in April.

J-1 Range Groundwater RA

Southern

The J-1 Range Southern Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds. The ETR system includes two extraction wells, an ex-situ treatment process to remove explosives compounds from the groundwater, and an infiltration trench to return treated water to the aquifer.

The Southern MTU has been optimized as part of the ESPM program at J-1 Range Southern. The on-base extraction well J1SEW0001 was turned off with regulatory approval on 28 February 2017 (formerly operated at a flow of 35 gpm), and flow was increased from 90 gpm to 125 gpm at the Leading-Edge extraction well J1SEW0002. The Leading-Edge extraction well continues to operate at a flow rate of 125 gpm. As of 25 April 2025, over 859.2 million gallons of water have been treated and re-injected. No J-1 Range Southern MTU shutdowns occurred in April.

Northern

The J-1 Range Northern Groundwater RA consists of removal and treatment of contaminated groundwater to control further migration of explosives compounds and perchlorate. The ETR system includes two extraction wells, an ex-situ treatment process to remove explosives compounds and perchlorate from the groundwater, and an infiltration trench to return treated water to the aquifer.

The Northern MTU continues to operate at a total system flow rate of 250 gpm. The flow rates at for the two extraction wells at J-1 Northern were modified on 28 October 2024 based on regulatory agency concurrence with the J-1 Range Northern Data Presentation for January 2023 to December 2023. The flow rate at J1NEW0001 was reduced from 125 gpm to 85 gpm and the flow rate at J1NEW0002 was increased from 125 gpm to 165 gpm. As of 25 April 2025, over 1.478 billion gallons of water have been treated and re-injected. The following J-1 Range Northern MTU shutdowns occurred in April:

- 1214 on 25 April 2025 due to a VFD Fault alarm and was restarted at 1445 on 25 April 2025.

Central Impact Area RA

The Central Impact Area (CIA) Groundwater treatment system consists of removal and treatment of groundwater to minimize downgradient migration of explosives compounds and

perchlorate. The ETR system includes the following components: three extraction wells, an ex-situ treatment process consisting of an ion exchange resin and granular activated carbon media to treat explosives compounds, and three infiltration galleries to return treated water to the aquifer. The CIA systems 1, 2, and 3 continue to run at a combined total flow rate of 750 gpm. As of 25 April 2025, over 3.960 billion gallons of water have been treated and re-injected. No CIA system shutdowns occurred in April.

2. SUMMARY OF ACTIONS TAKEN

Operable Unit (OU) Activity as of 25 April 2025:

CIA

- Source Area investigations
  - Conducted intrusive investigations
  - Demobilized intrusive UXO teams
  - Completed Blow-in-Place (BIP) demolition operations
  - Replaced the Consolidated Shot Structure (CSS) liner
  - Conducted CSS soil, remove, sift, sample and stage
  - Filled the CSS with clean material and secured
  - Final MDAS shipment was transported off site
  - Demobilized site equipment
  - Completed site restoration
  - Sampled 5x5x1 soil stockpiles
  - Demobilized remaining personnel
  - Conducted routine visual checks of CSS soil cover and surface area around the perimeter of the CSS.
- Telemetry updates to the new FCC radio frequency.

Demolition Area 1

- Groundwater sampling within the Demolition Area 1 SPM Program.
- Telemetry updates to the new FCC radio frequency.

Demolition Area 2

- No activity.

J-1 Range

- No activity.
- Telemetry updates to the new FCC radio frequency.

J-2 Range

- No activity.
- Telemetry updates to the new FCC radio frequency.
- Groundwater sampling within the J-2 Range Northern semi-annual SPM program and the semi-annual and quarterly PFAS program.
- Vertical profiling and well drilling:

  - UXO clearance and vegetation removal at the J-2 Range Northern drilling locations.
  - Cascade Drilling mobilized on 29 April 2025 and began vertical profiling at J2-PFAS-2 (BH-742)
  - Vertical profile intervals sampled: 136, 140-146, 151-156, 161-166, 171-176

J-3 Range

- Groundwater sampling within the J-3 Range semiannual PFAS program.
- Telemetry updates to the new FCC radio frequency.
- Vertical profiling and well drilling:
  - UXO clearance and vegetation removal at the J-3 Range drilling locations.

L Range

- No activity.

Small Arms Ranges

- No activity.

Northwest Corner

- No activity.

Training Areas

- No activity.

Impact Area Roads

- No activity.

Other

- Collected process water samples from Central Impact Area, Demolition Area 1, J-1 Range Northern, J-1 Range Southern, J-2 Range Eastern, J-2 Range Northern, and J-3 Range treatment systems.

JBCC Impact Area Groundwater Study Program (IAGWSP) Tech Update Meeting Minutes for 13 March 2025

Project and Fieldwork Update

Darrin Smith (USACE) provided a groundwater update. The annual Central Impact Area (CIA) System Performance Monitoring (SPM) sampling event of 163 screens and hydraulic monitoring event at 30 screens was completed on 3/26/25. The J-2 North PFAS sampling event at ten screens was completed on 4/2/25. The J-2 North SPM sampling event at three screens was completed on 4/3/25. The annual Demolition Area 1 (Demo 1) SPM sampling event of 187 screens began on 4/3/25 and is expected to continue through May. The J-1 South semi- annual event will follow. Mr. Smith (USACE) stated that the April monthly treatment system sampling was complete 4/7/25 and results are pending. Mr. Smith (USACE) stated that the J-2 N influent

and effluent quarterly PFAS sampling and the J-3 semi-annual PFAS sampling event were completed on 4/1/25. Mr. Smith (USACE) noted that the J-2 N system G is still shut down and USACE is in the process of exercising contracting options for a new extraction well (EW) pump for EW-3, which had failed.

Mr. Smith (USACE) also noted that EW-501 at Frank Perkins Road (Demo 1) was turned off. The pumping rate at EW-4 was increased from 75 gallons per minute (gpm) to 100 gpm, thus decreasing the Frank Perkins Road system flow rate from 175 gpm to 100 gpm. He added that one of the ion exchange (IX) vessels was taken offline to prevent fouling of the IX.

Gina Kaso (USACE) continued with the CIA UXO update. She noted that the teams completed the carryover digs on 4/8/25. All intrusive investigations and associated field work should be completed by the end of April, weather-dependent. Crews are currently conducting demolition operations at the Consolidated Shot Structure (CSS) and will then move to BIPs, including a white phosphorous BIP on 4/15/25. Once the intrusive season is complete, the UXO teams will demobilize from the site. Ms. Kaso (USACE) explained that soil from the CSS will be sampled, removed, and screened. Crews will return in July to dispose of the soil and conduct final site closeout. This will conclude the Weston contract.

Ms. Kaso (USACE) stated that she received EPA comments on the CIA Draft 2024 Source Removal Annual Report and is reviewing them. She noted that MassDEP previously concurred with the document. USACE is currently developing a draft follow-on UXO contract for the FY-26 field season, depending on available funding.

Document and Project Tracking

Jeff Dvorak (USACE) reviewed the list of deliverables (provided in advance of the meeting).

J-3 Range Annual Environmental Monitoring Report (EMR) Presentation

Chris Kilbridge (USACE) provided a presentation on the J-3 Range Annual Environmental Monitoring Report (EMR). He noted that the reporting period was September 2023 through August 2024. Mr. Kilbridge (USACE) displayed a figure showing the J-3 Range and the two identified plumes: RDX, which is contoured to the risk-based concentration (RBC) of 0.6 µg/L and perchlorate, which is contoured to 2.0 µg/L. He explained that there were six study areas identified in the Remedial Investigation/Feasibility Study (RI/FS) in 2014. He pointed those out on the figure.

Mr. Kilbridge (USACE) reviewed the J-3 Range extraction treatment and reinjection system performance statistics. The system uptime during the reporting period was 95.52% and the total uptime since overall system startup is 91.89%. The major contributors to downtime in this reporting period were a mechanical interruption at the off-base well in January 2024 and power supply interruptions due to power conservation and storms.

There was one breakthrough in July 2024 for RDX, which necessitated carbon changeout in two vessels. There was no perchlorate breakthrough or changeouts.

Influent concentrations ranged from non-detect (ND) to 0.36 µg/L for RDX, ND to 0.12 µg/L for HMX, and 0.37 to 0.53 µg/L for perchlorate. During the reporting period, 0.17 pounds of RDX, 0.04 pounds of HMX, and 0.46 pounds of perchlorate were removed. Since system startup, 7.32 pounds of RDX, 3.42 pounds of HMX, and 41.46 pounds of perchlorate, have been removed.

Sampling locations, groundwater monitoring results, and trends were reviewed and discussed. There were 71 well screens sampled for perchlorate with results ranging from ND to 4.2 µg/L (MW-163MS). There were no exceedances during this reporting period of the perchlorate EPA Health Advisory (HA) level of 15 µg/L. There was one exceedance of the Massachusetts Maximum Contaminant Level (MMCL) of 2.0 µg/L (MW-163MS) and there were three results above 1.0 µg/L (MW-392M2, MW- 637M2, J3EWIP2).

There were 52 well screens sampled for RDX with results ranging from ND to 1.3 µg/L (MW-163MS). There were no exceedances during this reporting period of the RDX EPA Health Advisory (HA) level of 2 µg/L. There were two results close to the EPA Risk Screening Level (RSL) of 0.97 µg/L (MW- 163S and MW-193S) and there were three exceedances above the EPA RBC level of 0.6 µg/L (MW- 163S, MW-193S, and MW-576M2). Mr. Kilbridge (USACE) noted that well 90MW-0054 had exceedances above 3 µg/L in 2022 and 2023. However, in 2024 the sampling result was 0.22 µg/L. Mr. Kilbridge (USACE) pointed out that there is no longer a continuous large mass of RDX because mass has broken into smaller plumelets with no mass above 2.0 µg/L.

Mr. Kilbridge (USACE) reviewed the surface water monitoring activities. At Snake Pond, surface water samples were collected from two locations during a sampling event in June 2024. All explosives samples were non-detect and perchlorate was non-detect to J-values. The results are consistent with past reporting periods. Per previous agency concurrence, IAGWSP has discontinued surface water sampling at Snake Pond due to trends being non-detect to less than the reporting limit for the last five years. The Sandwich Board of Health also concurred with the discontinuation.

At the J-3 Wetland, the hydraulic data was consistent with previous monitoring events. Potentiometric contours east of MW-637 indicate the wetlands are at the margin of the capture zone, which suggests a weak hydraulic influence by the in-plume extraction wells, J3EWIP1 and J3EWIP2. There is no evidence of impact from operation of the J-3 treatment system on wetland water levels.

Mr. Kilbridge (USACE) continued the presentation with the hydraulic monitoring and the synoptic water level measuring event that occurred in July 2024. The hydraulic gradients were consistent with past years. The overall water levels were about 0.8–1.0 ft. higher than measured in 2023. Groundwater flow is north to south and converging near extraction wells and capturing the majority of plume mass. The extent of the measured capture zone matches the observed capture zone.

Mr. Kilbridge (USACE) continued by showing a figure of the modeled capture zones under 2024 system stresses. He explained that the predicted capture zones were developed with reverse

particle tracking (MODPATH) and they are very similar to the observed capture. He noted that the existing treatment systems adequately capture the plumes. Measured vs. model-predicted perchlorate figures were shown.

Mr. Kilbridge (USACE) explained that the model-predicted three plumelets of perchlorate at 2.0 µg/L and the chemistry results indicate there could be five plumelets near MW-163S and MW-637M2. He noted that the concentrations at MW-637M2 were declining and are currently slightly below 2.0 µg/L.

Mr. Kilbridge (USACE) continued with the measured vs. model predicted for RDX. The model predicted a single plumelet above 2.0 µg/L near the source area. Due to the detections in 2024 above 1.0 µg/L for RDX at MW-163S and MW-193S, and above 0.6 µg/L at MW-576M2, the predicted plumelet in depicted slightly larger to be more conservative.

Mr. Kilbridge (USACE) showed model vs. predicted graphs for RDX and perchlorate concentrations at each of the extraction wells since system startup (J3EW1P1, J3EW1P2, J3EW0032, and J3EW0001). A comparison to Decision Document (DD) criteria was reviewed. The DD predicted that perchlorate would be below 2.0 µg/L by 2022 and RDX would be below 0.6 µg/L by 2021. Based on the updated 2024 results, perchlorate is expected to be below 2.0 µg/L off-base by 2026 and below 2.0 µg/L on base by 2037 due to the fluctuation and persistent contamination at MW-163S. RDX is expected to be below 0.6 µg/L on-base by 2025.

The migration of the perchlorate plumes after 2026 was discussed and a graph was displayed. The plume to the east of J3EW0032 has limited downgradient migration. The plume downgradient of J3EW0032 has negligible downgradient migration.

Recommendations were reviewed and discussed. There were no suggested changes to plant operations, sampling, or wellfield extraction rates. For hydraulic monitoring, IAGWSP is recommending adding six well screens on-base to improve resolution of observed capture near the top of the mound. The approved annual sampling plan from the 2023 EMR will be implemented this summer. No additional changes are recommended to the chemical monitoring network at this time.

Elliot Jacobs (MassDEP) commented that the size of the capture zone appears to be very large in comparison to the magnitude and current distribution of RDX and perchlorate. He was surprised that there was not a proposal to optimize the system and potentially transition to a long-term monitoring program. He suggested that the extraction rates might not be necessary for the contamination that remains in the J-3 area. Mr. Kilbridge (USACE) clarified if Mr. Jacobs (MassDEP) was suggesting that perhaps a well could be turned off and allow for monitored natural attenuation for a portion of the plumelets. Mr. Jacobs (MassDEP) suggested the IAGWSP might want to analyze the viability of that approach.

PFAS Update

There was a discussion on the draft PFAS report. Jodi-Lyn Cutler (IAGWSP) stated that a spreadsheet for each comment is being developed for submittal prior to the next tech meeting,

scheduled for May 8th. The IAGWSP intends to use the next technical meeting to work through comment resolution. The agencies concurred with this approach.

Demo 1 EMR EPA-Requested Discussion

Jodi-Lyn Cutler (IAGWSP) explained that there had been an EPA request to discuss some of the agency comments on the draft Demo 1 EMR. She noted that the IAGWSP is currently developing responses to the agency comments on the draft Demo 1 EMR and wanted to provide further detail/clarification. Mike Kulbersh (USACE) led the discussion on EPA comments on the draft EMR.

Mr. Kulbersh (USACE) noted that there was an EPA comment (EPA Comment #1) related to MW-531 being included in the capture zone. Mr. Kulbersh (USACE) replied that, based on multiple lines of evidence (e.g. modeling, the manual capture zone, peak concentrations levels), he believes that well is included in the capture zone. Additional detail will be added to the figures and text in the revised report. The agencies were satisfied with the clarification and with the additional details being noted in the final EMR.

In response to EPA Comment #3, IAGWSP will add the well clusters to the figure for additional clarification. Mr. Fontaine (EPA) concurred with this approach.

Mr. Jacobs (MassDEP) asked for examples of the seasonal changes that could impact the capture zones. Mr. Kulbersh (USACE) noted that the water level fluctuations (i.e. lower in the fall) can result in different saturation levels, travel distance to pumping area, and therefore capture zone could narrow or expand. Mr. Jacobs (MassDEP) commented that he thought the saturation thicknesses had minimal impacts but acknowledged that this could be different for the edge of the capture zones. Mr. Kulbersh (USACE) noted that this system was not designed to reach this low depth.

In an effort to streamline document revisions and the approval process, the IAGWSP responses to the EPA comments will be included as an attachment to the report, rather than issued as a separate document. The aforementioned details and figure updates will also be added to the final version of the report. EPA concurred with this approach. Mr. Jacobs (MassDEP) asked the IAGWSP to discuss this plan with Len Pinaud for his consideration and approval.

JBCC Cleanup Team Meeting

The next JBCC Cleanup Team (JBCCCT) has yet to be scheduled (previous meeting was 09 April 2025). Meeting details and presentation materials from previous meetings can be found on the IAGWSP web site at http://jbcc-iagwsp.org/community/impact/presentations/. The Cleanup Team meeting discusses late breaking news and responses to action items, as well as updates from the IAGWSP and the Installation Restoration Program (IRP). The JBCCCT meetings provide a forum for community input regarding issues related to both the IRP and the IAGWSP.

3. SUMMARY OF DATA RECEIVED

Table 1 summarizes sampling for all media from 01 to 30 April 2025. Table 2 summarizes the validated detections of explosives compounds and perchlorate for all groundwater results received from 01 to 30 April 2025. These results are compared to the Maximum Contaminant Levels/Health Advisory (MCL/HA) values for respective analytes. Explosives and perchlorate are the primary contaminants of concern (COC) at Camp Edwards. Table 3 summarizes the validated detections of per- and polyfluoroalkyl substances (PFAS) for influent and groundwater results analyzed by EPA draft Method 1633 and received from 01 to 30 April 2025. Table 3 PFAS results are compared to the Regional Screening Levels (RSLs) published by EPA in November 2023. No PFAS validation was completed during April 2025, therefore, Table 3 is not included.

The operable units (OUs) under investigation and cleanup at Camp Edwards are the Central Impact Area, Demolition Area 1, Demolition Area 2, J-1 Range, J-2 Range, J-3 Range, L Range, Northwest Corner, Small Arms Ranges, and Training Areas. Environmental monitoring reports for each OU are generated each year to evaluate the current year groundwater results. These reports are available on the site Environmental Data Management System (EDMS) and at the project document repositories (IAGWSP office and Jonathan Bourne Library).

4. SUBMITTED DELIVERABLES

Deliverables submitted during the reporting period include the following:

- Response to Comments on the Draft J-1 Range Southern Environmental Monitoring Report for January 2023 through December 2024 — 09 April 2025
- Response to Comments on the Draft Small Arms Ranges 2024 Biennial Environmental Monitoring Report — 11 April 2025
- Final J-2 Range Northern Environmental Monitoring Report for November 2022 through October 2023 — 22 April 2025

5. SCHEDULED ACTIONS

The following actions and/or documents are being prepared in May 2025.

- Response to Comments on the Draft Technical Memorandum, Demolition 2 Area – May 2024 PFAS Sampling Event
- Response to Comments on the Impact Area Groundwater Study Program Draft Comprehensive PFAS Report
- Response to Comments on the Central Impact Area Draft Final 2024 Source Removal Annual Report
- Final Demolition Area 1 Environmental Monitoring Report for July 2023 through June 2024
- Response to Comments on the J-1 Range Northern Environmental Monitoring Report for January 2023 through December 2023
- Memorandum of Resolution for the J-1 Range Southern Environmental Monitoring Report for January 2023 through December 2024
- Final Small Arms Ranges 2024 Biennial Environmental Monitoring Report
- Draft J-2 Range Eastern Environmental Monitoring Report for November 2023 through October 2024
- Draft J-2 Range Northern Environmental Monitoring Report for November 2023 through October 2024
- Draft Central Impact Area Environmental Monitoring Report for July 2023 through June 2024

TABLE 1
Sampling Progress: 01 to 30 April 2025

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Demolition Area 1	MW-611M2	MW-611M2_S25	N	04/29/2025	Ground Water	91	101
Demolition Area 1	MW-611M1	MW-611M1_S25	N	04/29/2025	Ground Water	141	151
Demolition Area 1	MW-611M1	MW-611M1_S25D	FD	04/29/2025	Ground Water	141	151
Demolition Area 1	MW-610M2	MW-610M2_S25	N	04/29/2025	Ground Water	85	95
Demolition Area 1	MW-610M1	MW-610M1_S25	N	04/29/2025	Ground Water	110	120
Demolition Area 1	MW-641M2	MW-641M2_S25	N	04/28/2025	Ground Water	86.2	96.2
Demolition Area 1	MW-641M1	MW-641M1_S25	N	04/28/2025	Ground Water	113.2	123.2
Demolition Area 1	MW-642M2	MW-642M2_S25	N	04/28/2025	Ground Water	77.3	87.3
Demolition Area 1	MW-642M1	MW-642M1_S25	N	04/28/2025	Ground Water	104.3	114.3
Demolition Area 1	MW-353M2	MW-353M2_S25	N	04/24/2025	Ground Water	57	67
Demolition Area 1	MW-353M1	MW-353M1_S25	N	04/24/2025	Ground Water	107	117
Demolition Area 1	XX9514	XX9514_S25	N	04/24/2025	Ground Water	102	112
Demolition Area 1	XX9514	XX9514_S25D	FD	04/24/2025	Ground Water	102	112
Demolition Area 1	MW-732M2	MW-732M2_S25	N	04/23/2025	Ground Water	96.2	106.2
Demolition Area 1	MW-732M1	MW-732M1_S25	N	04/23/2025	Ground Water	156	166
Demolition Area 1	MW-731M3	MW-731M3_S25	N	04/23/2025	Ground Water	160.1	170.1
Demolition Area 1	MW-731M2	MW-731M2_S25	N	04/23/2025	Ground Water	190.9	200.9
Demolition Area 1	MW-731M1	MW-731M1_S25	MS	04/23/2025	Ground Water	220.8	230.8
Demolition Area 1	MW-731M1	MW-731M1_S25	N	04/23/2025	Ground Water	220.8	230.8
Demolition Area 1	MW-731M1	MW-731M1_S25	SD	04/23/2025	Ground Water	220.8	230.8
Demolition Area 1	MW-533M1	MW-533M1_S25	N	04/22/2025	Ground Water	160	170
Demolition Area 1	MW-533M1	MW-533M1_S25D	FD	04/22/2025	Ground Water	160	170
Demolition Area 1	MW-696M1	MW-696M1_S25	N	04/22/2025	Ground Water	175.2	185.2
Demolition Area 1	MW-663D	MW-663D_S25	N	04/22/2025	Ground Water	240.6	250.6
Demolition Area 1	MW-663D	MW-663D_S25D	FD	04/22/2025	Ground Water	240.6	250.6
Central Impact Area	SSCIACSL03	JBCC-CVR-04	N	04/21/2025	Soil	0	0
Central Impact Area	SSCIACSL03	JBCC-CLL-04	N	04/21/2025	Soil	0	0
Demolition Area 1	MW-544M2	MW-544M2_S25	N	04/16/2025	Ground Water	112	122
Demolition Area 1	MW-544M1	MW-544M1_S25	N	04/16/2025	Ground Water	162	172
Demolition Area 1	MW-544M1	MW-544M1_S25D	FD	04/16/2025	Ground Water	162	172
Demolition Area 1	MW-597M2	MW-597M2_S25	N	04/16/2025	Ground Water	118	128
Demolition Area 1	MW-597M1	MW-597M1_S25	N	04/16/2025	Ground Water	148	158
Demolition Area 1	MW-545M4	MW-545M4_S25	N	04/15/2025	Ground Water	72	82
Demolition Area 1	MW-545M3	MW-545M3_S25	N	04/15/2025	Ground Water	101.5	111.5
Demolition Area 1	MW-545M2	MW-545M2_S25	N	04/15/2025	Ground Water	142	152
Demolition Area 1	MW-545M1	MW-545M1_S25	N	04/15/2025	Ground Water	162	172
Demolition Area 1	MW-664M2	MW-664M2_S25	MS	04/14/2025	Ground Water	218.5	228.5
Demolition Area 1	MW-664M2	MW-664M2_S25	N	04/14/2025	Ground Water	218.5	228.5
Demolition Area 1	MW-664M2	MW-664M2_S25	SD	04/14/2025	Ground Water	218.5	228.5
Demolition Area 1	MW-664M1	MW-664M1_S25	N	04/14/2025	Ground Water	248.5	258.5
Demolition Area 1	MW-231M2	MW-231M2_S25	N	04/14/2025	Ground Water	165.5	175.5
Demolition Area 1	MW-231M1	MW-231M1_S25	N	04/14/2025	Ground Water	210.5	220.5
Demolition Area 1	MW-730M3	MW-730M3_S25	N	04/10/2025	Ground Water	115.46	125.46
Demolition Area 1	MW-730M2	MW-730M2_S25	N	04/10/2025	Ground Water	165.87	175.87
Demolition Area 1	MW-730M2	MW-730M2_S25D	FD	04/10/2025	Ground Water	165.87	175.87
Demolition Area 1	MW-730M1	MW-730M1_S25	N	04/10/2025	Ground Water	185.82	195.82
Demolition Area 1	MW-697M1	MW-697M1_S25	N	04/09/2025	Ground Water	243	253
Demolition Area 1	MW-248M3	MW-248M3_S25	N	04/09/2025	Ground Water	143	153
Demolition Area 1	MW-248M2	MW-248M2_S25	N	04/09/2025	Ground Water	178	188
Demolition Area 1	MW-248M1	MW-248M1_S25	N	04/09/2025	Ground Water	216.3	226.3
Demolition Area 1	MW-531M1	MW-531M1_S25	N	04/09/2025	Ground Water	138	148
Demolition Area 1	MW-531M1	MW-531M1_S25D	FD	04/09/2025	Ground Water	138	148
Demolition Area 1	MW-258M3	MW-258M3_S25	N	04/08/2025	Ground Water	77	82
Demolition Area 1	MW-258M2	MW-258M2_S25	N	04/08/2025	Ground Water	87	92
Demolition Area 1	MW-258M1	MW-258M1_S25	N	04/08/2025	Ground Water	109	119
Demolition Area 1	MW-532M2	MW-532M2_S25	N	04/08/2025	Ground Water	138	148
Demolition Area 1	MW-532M1	MW-532M1_S25	N	04/07/2025	Ground Water	168	178
Demolition Area 1	FPR-2-EFF-A	FPR-2-EFF-A-229A	N	04/07/2025	Process Water	0	0
Demolition Area 1	FPR-2-GAC-MID1A	FPR-2-GAC-MID1A-229A	N	04/07/2025	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 April 2025

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Demolition Area 1	FPR2-POST-IX-A	FPR2-POST-IX-A-229A	N	04/07/2025	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-229A	N	04/07/2025	Process Water	0	0
Demolition Area 1	MW-77M2	MW-77M2_S25	N	04/07/2025	Ground Water	120	130
Demolition Area 1	D1LE-EFF	D1LE-EFF-105A	N	04/07/2025	Process Water	0	0
Demolition Area 1	D1LE-MID2	D1LE-MID2-105A	N	04/07/2025	Process Water	0	0
Demolition Area 1	D1LE-MID1	D1LE-MID1-105A	N	04/07/2025	Process Water	0	0
Demolition Area 1	D1LE-INF	D1LE-INF-105A	N	04/07/2025	Process Water	0	0
Demolition Area 1	MW-73S	MW-73S_S25	N	04/07/2025	Ground Water	38.5	48
Demolition Area 1	D1-EFF	D1-EFF-177A	N	04/07/2025	Process Water	0	0
Demolition Area 1	D1-MID-2	D1-MID-2-177A	N	04/07/2025	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-177A	N	04/07/2025	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-177A	N	04/07/2025	Process Water	0	0
Demolition Area 1	MW-19S	MW-19S_S25	N	04/07/2025	Ground Water	38	48
Demolition Area 1	MW-19S	MW-19S_S25D	FD	04/07/2025	Ground Water	38	48
J1 Range Southern	J1S-EFF	J1S-EFF-209A	N	04/03/2025	Process Water	0	0
J1 Range Southern	J1S-MID	J1S-MID-209A	N	04/03/2025	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-209A	N	04/03/2025	Process Water	0	0
Demolition Area 1	MW-648M1	MW-648M1_S25	N	04/03/2025	Ground Water	112	122
Central Impact Area	CIA2-EFF	CIA2-EFF-135A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-135A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-135A	N	04/03/2025	Process Water	0	0
Demolition Area 1	MW-31S	MW-31S_S25	N	04/03/2025	Ground Water	98	103
Central Impact Area	CIA2-INF	CIA2-INF-135A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA1-EFF	CIA1-EFF-135A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-135A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA1-MID1	CIA1-MID1-135A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-135A	N	04/03/2025	Process Water	0	0
Demolition Area 1	MW-31M	MW-31M_S25	N	04/03/2025	Ground Water	113	123
Central Impact Area	CIA3-EFF	CIA3-EFF-106A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA3-MID2	CIA3-MID2-106A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA3-MID1	CIA3-MID1-106A	N	04/03/2025	Process Water	0	0
Central Impact Area	CIA3-INF	CIA3-INF-106A	N	04/03/2025	Process Water	0	0
J2 Range Northern	J2EW0001	J2EW0001_S25	N	04/02/2025	Process Water	179	234
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-199A	N	04/02/2025	Process Water	0	0
J2 Range Northern	J2EW0002	J2EW0002_S25	N	04/02/2025	Process Water	198	233
J2 Range Northern	J2EW0002	J2EW0002_S25D	FD	04/02/2025	Process Water	198	233
J2 Range Northern	J2EW0002	J2EW0002_SPR25	N	04/02/2025	Process Water	198	233
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-199A	N	04/02/2025	Process Water	0	0
J2 Range Northern	MW-345M2	MW-345M2_SPR25	N	04/02/2025	Ground Water	236.62	246.62
J2 Range Northern	MW-345M1	MW-345M1_SPR25	MS	04/02/2025	Ground Water	311.5	321.5
J2 Range Northern	MW-345M1	MW-345M1_SPR25	N	04/02/2025	Ground Water	311.5	321.5
J2 Range Northern	MW-345M1	MW-345M1_SPR25	SD	04/02/2025	Ground Water	311.5	321.5
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-199A	N	04/02/2025	Process Water	0	0
J2 Range Eastern	J2E-INF-I	J2E-INF-I-199A	N	04/02/2025	Process Water	0	0
J2 Range Northern	MW-293M1	MW-293M1_SPR25	N	04/01/2025	Ground Water	296.26	306.27
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-223A	N	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-223A	N	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-223A	N	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-223A	N	04/01/2025	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 April 2025

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J2 Range Northern	MW-05D	MW-05D_SPR25	N	04/01/2025	Ground Water	335	340
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-223A	N	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-223A	N	04/01/2025	Process Water	0	0
J1 Range Northern	J1N-EFF	J1N-EFF-138A	N	04/01/2025	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-138A	N	04/01/2025	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-138A	N	04/01/2025	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-138A	N	04/01/2025	Process Water	0	0
J2 Range Northern	MW-337D	MW-337D_SPR25	N	04/01/2025	Ground Water	310	320
J3 Range	J3-EFF	J3-EFF-223A	N	04/01/2025	Process Water	0	0
J3 Range	J3-INF	J3-INF_APR25	N	04/01/2025	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-223A	N	04/01/2025	Process Water	0	0
J2 Range Northern	MW-340D	MW-340D_SPR25	N	04/01/2025	Ground Water	329.6	339.6
J3 Range	J3-MID-1	J3-MID-1-223A	N	04/01/2025	Process Water	0	0
J3 Range	J3-EFF	J3-EFF_APR25	N	04/01/2025	Process Water	0	0
J3 Range	J3-INF	J3-INF-223A	N	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-EFF-F	J2N-EFF-F_APR25	N	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-INF-F	J2N-INF-F_APR25D	FD	04/01/2025	Process Water	0	0
J2 Range Northern	J2N-INF-F	J2N-INF-F_APR25	N	04/01/2025	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received March 2025

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
Central Impact Area	MW-284M1	MW-284M1_S25	115	125	03/26/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.10	J	µg/L	0.60		0.092	0.20
Western Boundary	MW-267M1	MW-267M1_S25	248	258	03/25/2025	SW6850	Perchlorate	0.052	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-123M2	MW-123M2_S25	236	246	03/19/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.24		µg/L	0.60		0.092	0.20
Central Impact Area	MW-123M1	MW-123M1_S25	291	301	03/19/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.18	J	µg/L	0.60		0.092	0.20
Central Impact Area	MW-614M2	MW-614M2_S25	215	225	03/18/2025	SW6850	Perchlorate	0.059	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-614M1	MW-614M1_S25	275	285	03/18/2025	SW6850	Perchlorate	0.20		µg/L	2.0		0.047	0.20
Central Impact Area	MW-614M1	MW-614M1_S25	275	285	03/18/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.2		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-614M1	MW-614M1_S25	275	285	03/18/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.081	J	µg/L	400		0.013	0.20
Central Impact Area	MW-208M1	MW-208M1_S25	195	205	03/18/2025	SW6850	Perchlorate	0.062	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-686M2	MW-686M2_S25	194.3	204.3	03/17/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.4		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-686M2	MW-686M2_S25	194.3	204.3	03/17/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.032	J	µg/L	400		0.013	0.20
Central Impact Area	MW-615M2	MW-615M2_S25	200	210	03/13/2025	SW6850	Perchlorate	0.047	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-615M1	MW-615M1_S25	260	270	03/13/2025	SW6850	Perchlorate	1.0		µg/L	2.0		0.047	0.20
Central Impact Area	MW-615M1	MW-615M1_S25	260	270	03/13/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.1	J	µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-615M1	MW-615M1_S25	260	270	03/13/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.29		µg/L	400		0.013	0.20
Central Impact Area	MW-615M1	MW-615M1_S25D	260	270	03/13/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.5	J	µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-615M1	MW-615M1_S25D	260	270	03/13/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.24		µg/L	400		0.013	0.20
Central Impact Area	MW-176M2	MW-176M2_S25	229	239	03/13/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.76		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-176M1	MW-176M1_S25	270	280	03/13/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.56		µg/L	0.60		0.092	0.20
Central Impact Area	MW-625M1	MW-625M1_S25	260	270	03/12/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.23		µg/L	0.60		0.092	0.20
Central Impact Area	MW-616M1	MW-616M1_S25	217.1	227.1	03/12/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.73		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-617M1	MW-617M1_S25	175.8	185.8	03/12/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.53		µg/L	0.60		0.092	0.20
Central Impact Area	MW-95M2	MW-95M2_S25	167	177	03/11/2025	SW6850	Perchlorate	0.076	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-95M1	MW-95M1_S25	202	212	03/11/2025	SW6850	Perchlorate	1.5		µg/L	2.0		0.047	0.20
Central Impact Area	MW-95M1	MW-95M1_S25	202	212	03/11/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.0		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-95M1	MW-95M1_S25D	202	212	03/11/2025	SW6850	Perchlorate	1.4		µg/L	2.0		0.047	0.20
Central Impact Area	MW-95M1	MW-95M1_S25D	202	212	03/11/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.95		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-629M1	MW-629M1_S25	216.9	226.9	03/11/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.24		µg/L	0.60		0.092	0.20
Central Impact Area	MW-638M2	MW-638M2_S25	204.2	214.2	03/11/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.74		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-638M2	MW-638M2_S25	204.2	214.2	03/11/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.40		µg/L	400		0.013	0.20
Central Impact Area	MW-638M1	MW-638M1_S25	261.2	271.2	03/11/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.16	J	µg/L	0.60		0.092	0.20
Central Impact Area	MW-43M1	MW-43M1_S25	223	233	03/10/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.84		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-86S	MW-86S_S25	143	153	03/10/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.30		µg/L	0.60		0.092	0.20
Central Impact Area	MW-86M2	MW-86M2_S25	158	168	03/10/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.44		µg/L	0.60		0.092	0.20
Central Impact Area	MW-626M2	MW-626M2_S25	237.2	247.2	03/06/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.20		µg/L	0.60		0.092	0.20
Central Impact Area	MW-626M1	MW-626M1_S25	282.2	292.2	03/06/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.82		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-149M1	MW-149M1_S25	237.5	247.5	03/06/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.37		µg/L	0.60		0.092	0.20
Central Impact Area	MW-39M1	MW-39M1_S25	220	230	03/05/2025	SW6850	Perchlorate	0.34		µg/L	2.0		0.047	0.20
Central Impact Area	MW-39M1	MW-39M1_S25	220	230	03/05/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.2		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-39M1	MW-39M1_S25	220	230	03/05/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.11	J	µg/L	400		0.013	0.20
Central Impact Area	MW-88M2	MW-88M2_S25	213	223	03/05/2025	SW6850	Perchlorate	0.69		µg/L	2.0		0.047	0.20
Central Impact Area	MW-88M2	MW-88M2_S25	213	223	03/05/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.73		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-88M2	MW-88M2_S25	213	223	03/05/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.15	J	µg/L	400		0.013	0.20

J = Estimated Result
MDL = Method Detection Limit
RL = Reporting Limit
ND = Non-Detect

MCL/HA= Either the MCL or Lowest Health Advisory Limit
May 07, 2025

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received March 2025

Area of Concern	Location ID	Field Sample ID	Top Depth (ft bgs)	Bottom Depth (ft bgs)	Date Sampled	Test Method	Analyte	Result Value	Qualifier	Units	MCL/HA	> MCL/HA	MDL	RL
Central Impact Area	MW-88M1	MW-88M1_S25	233	243	03/05/2025	SW6850	Perchlorate	0.11	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-88M1	MW-88M1_S25	233	243	03/05/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	J	µg/L	0.60		0.092	0.20
Central Impact Area	MW-89M3	MW-89M3_S25	174	184	03/05/2025	SW6850	Perchlorate	0.061	J	µg/L	2.0		0.047	0.20
Central Impact Area	MW-89M2	MW-89M2_S25	214	224	03/05/2025	SW6850	Perchlorate	1.1		µg/L	2.0		0.047	0.20
Central Impact Area	MW-89M2	MW-89M2_S25	214	224	03/05/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	5.8		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-89M2	MW-89M2_S25	214	224	03/05/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.1	J	µg/L	400		0.013	0.20
Central Impact Area	MW-89M2	MW-89M2_S25D	214	224	03/05/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	6.1		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-89M2	MW-89M2_S25D	214	224	03/05/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.2		µg/L	400		0.013	0.20
Central Impact Area	MW-89M1	MW-89M1_S25	234	244	03/05/2025	SW6850	Perchlorate	0.57		µg/L	2.0		0.047	0.20
Central Impact Area	MW-89M1	MW-89M1_S25	234	244	03/05/2025	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.73		µg/L	0.60	X	0.092	0.20
Central Impact Area	MW-89M1	MW-89M1_S25	234	244	03/05/2025	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.069	J	µg/L	400		0.013	0.20

J = Estimated Result
MDL = Method Detection Limit
RL = Reporting Limit
ND = Non-Detect

MCL/HA= Either the MCL or Lowest Health Advisory Limit
May 07, 2025