MONTHLY PROGRESS REPORT #327
FOR JUNE 2024

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 30 June 2024.

1. SUMMARY OF REMEDIATION ACTIONS

Remediation Actions (RA) Underway at Camp Edwards as of 28 June 2024:

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 reinfiltration (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 and an infiltration basin 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. The treatment facility continues to operate at a flow rate of 175 gallons per minute (gpm), with over 3.100 billion gallons of water treated and re-injected as of 28 June 2024. The following Frank Perkins Road system shutdowns occurred in June:

- 2143 on 21 June 2024 due to a power interruption and was restarted at 0730 on 24 June 2024.

The Base Boundary Mobile Treatment Unit (MTU) continues to operate at a flow rate of 65 gpm. As of 31 May 2024, over 404.0 million gallons of water were treated and re-injected. No Base Boundary MTU system shutdowns occurred in June.

The Leading-Edge system continues to operate at a flow rate of 100 gpm. As of 28 June 2024, over 410.5 million gallons of water were treated and re-injected. No Leading Edge system shutdowns occurred in June.

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 four infiltration basins 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 28 June 2024, over 2.219 billion gallons of water have been treated and re-injected. The following MTU E and F system shutdowns occurred in June:

- MTUs E and F at 0116 on 12 June 2024 due to an "Outlet High Flow" alarm at Unit F, and "Inlet High Pressure" alarm at Unit E. The fiber optic line at the EW0002 vault was concluded to have been damaged due to chewing by a rodent, severing communications with Unit F and causing the VFD to run the pump at 100%. Repair to Unit F was made with spare fiber optic lines to restore communications and the system was restarted at 0840 on 12 June 2024. When Unit E was restarted the pressure relief valve on the influent line would not close. Unit E will remain off until the new valve arrives.
- MTU F at 1230 on 12 June 2024 due to an "Outlet High Flow" alarm. The recently installed spare fiber optic line was determined to be in damaged condition. Communication was restored using one of the original fiber lines as well as one of the spare lines. MTU F was restarted but a broken influent line on the exterior of the MTU was discovered, and MTU F remained off until repair to the influent line could be performed. MTU F was restarted at 0850 on 20 June 2024 running with EW0002 at 100 gpm. MTU E with EW0001 at 150 gpm remains off.
- MTU F at 0910 on 27 June 2024 to allow BETCO to repair damaged fiber optic lines at EW0002. MTU F was restarted at 1134 on 27 June 2024.

The Northern Treatment Building G continues to operate at a flow rate of 225 gpm. As of 28 June 2024, over 1.718 billion gallons of water have been treated and re-injected. No MTU G system shutdowns occurred in June.

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 ETR 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 28 June 2024, over 1.860 billion gallons of water have been treated and re-injected. The following MTU H and I system shutdowns occurred in June:

- 2121 on 21 June 2024 for MTUs H and I due to power interruption. The system was restarted at 0835 on 24 June 2024.

MTU J typically operates at a flow rate of 120 gpm. As of 28 June 2024, over 870.4 million gallons of water have been treated and re-injected. The following MTU J shutdowns occurred in June:

- 0820 on 27 June 2024 to allow BETCO and Fernandes Line Constr. to disconnect the unpowered lines from utility poles on Greenway Road. Unit J was restarted at 0934 on 27 June 2024.

MTU K continues to operate at a flow rate of 125 gpm. As of 28 June 2024, over 999.8 million gallons of water have been treated and re-injected. The following MTU K shutdowns occurred in June:

- 2121 on 21 June 2024 due to power interruption and was restarted at 0821 on 24 June 2024.

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) reinjection wells to return treated water to the aquifer.

The J-3 system is currently operating at a flow rate of 255 gpm. As of 28 June 2024, over 1.844 billion gallons of water have been treated and re-injected. The following J-3 system shutdowns occurred in June:

- 1930 on 20 June 2024 due to FS-12 being turned off for energy conservation. The J-3 system was restarted at 0758 on 21 June 2024.
- 2136 on 23 June 2024 due to a power interruption and was restarted at 1020 on 24 June 2024.

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 31 January 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 28 June 2024, over 805.8 million gallons of water have been treated and re-injected. The following J-1 Range Southern MTU shutdowns occurred in June:

- 2121 on 21 June 2024 due to a power interruption and was restarted at 0810 on 24 June 2024.
- 0810 on 27 June 2024 to allow BETCO and Fernandes Line Constr. to disconnect the unpowered lines from the utility poles on Greenway Road. The J-1 Range Southern MTU system was restarted at 0945 on 27 June 2024.

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. As of 28 June 2024, over 1.370 billion gallons of water have been treated and re-injected. The following J-1 Range Northern MTU shutdowns occurred in June:

- 1200 on 17 June 2024 due to a "Sump Flood" alarm due to a broken hose in the IX #4 influent line. A new hose was installed and the system was restarted at 1330 on 17 June 2024.

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 an infiltration basin and two 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 28 June 2024, over 3.633 billion gallons of water have been treated and re-injected. The following CIA system shutdowns occurred in June:

- 0232 on 30 May 2024 at CIA-1 due to an alarm for "VFD Fault". The VFD panel was inspected on 31 May 2024 and was found to be damaged. BETCO and Satuit Automation installed and programmed a temporary 30 HP VFD on 07 June 2024 to allow the system to function until a permanent 40 HP replacement VFD can be procured and installed. The system was restarted with the temporary VFD on 07 June 2024.

2. SUMMARY OF ACTIONS TAKEN

Operable Unit (OU) Activity as of 28 June 2024:

CIA

- Source Area investigations
  - Conducted Metal Mapper (MM) cued surveys in P4A4 grids
  - Conducted intrusive investigation in P4A3 grids
  - Conducted intrusive investigation in P4A4 grids
  - Routine visual check of CSS soil cover and surface area around the perimeter of the CSS
- Bag filters changed at CIA-1
- Groundwater sampling within the CIA SPM Program (Residential)

Demolition Area 1

- Groundwater sampling within the Demo 1 SPM Program
- Hydraulic monitoring within the Demo 1 SPM Program.
- Bag filters change

Demolition Area 2
- No activity

J-1 Range
- Bag filters changed
- Groundwater sampling within the J1 South SPM Program
- Groundwater sampling within the J1 North SPM Program
- New fittings installed on GAC #2 of J1N.

J-2 Range
- Influent sample port repaired at MTU E for J2N.
- Groundwater sampling within the J2 North PFAS Program (Resample)

J-3 Range
- Groundwater sampling within the J3 Range SPM Program
- Surface water sampling within the J3 Range SPM Program
- Bag filters changed

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 20 June 2024

Project and Fieldwork Update

Mr. Darrin Smith (USACE) reported that KGS completed semi-annual surface water sampling at two locations on Snake Pond (J-3 Range) on 6/12/24. The sampling methods were discussed. Crews also began the J-1 Range North semi-annual event (28 screens) on 6/10/24 and are

expected to finish next week. The J-3 Range annual sampling event will be conducted next (65 screens, hydro 62 screens).

Mr. Smith (USACE) stated that J-2 Range North (J-2N) E&F units tripped on 6/12/24 due to, what is believed to be, mice chewing through the fiber optics running from EW-2 to Unit F. Unit F was restarted the same day. When Unit E was restarted, the pressure relief valve wouldn't close. A new relief valve is on order and system remains off until that is replaced. Unit F tripped again on 6/12/24 (after running for ~7.5 hours) due one of the spare fiber optics lines also being damaged. Once it was repaired and restarted, a broken influent line at the exterior of the plant was noticed. The line was repaired on 6/18/24 and the system will be restarted once PVC glue dries.

Mr. Dave Hill (ARNG) suggested that there be a separate meeting to discuss the upcoming J-3 Range sampling locations. IAGWSP is requesting clarification on some EPA comments on the most recent environmental monitoring report. Ms. Jane Dolan (EPA) said that EPA will provide clarification.

Ms. Jodi Lyn Cutler (ARNG) reported that the five most recent Demolition Area 2 (Demo 2) PFAS sampling results were all non detect. Mr. Mike Kulbersh (USACE) explained that this sampling was recommended as part of the Demo 2 Project Note as a precursor to a Demo 2 Demonstration of Compliance Report to close out the site. The five wells with the historically highest RDX detections were selected for the PFAS sampling. Results are awaiting validation.

Ms. Gina Kaso (USACE) reported that all of the scheduled geophysical work in the Central Impact Area has been completed and crews are proceeding with the carryover digs in Phase IV Area 3 and digs in Phase IV Area 4. Ms. Dolan (EPA) asked about the schedule for the validation grids. Ms. Kaso (USACE) will check on the timeline and report back to the team.

Document and Project Tracking

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

JBCC Cleanup Team Meeting

The next JBCC Cleanup Team (JBCCCT) meeting is scheduled for 17 July 2024. The meeting will be held virtually. 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 June 2024. Table 2 summarizes the validated detections of explosives compounds and perchlorate for all groundwater results received from 01 to 30 June 2024. 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 June 2024. Table 3 PFAS results are compared to the Regional Screening Levels (RSLs) published by EPA in November 2023.

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:

• Monthly Progress Report No. 326 for May 2024	12 June 2024
• Response to Comments on Draft J-1 Range Northern Environmental Monitoring Report for January 2021 – December 2022 with Plume Shell Technical Memorandum	21 June 2024

5. SCHEDULED ACTIONS

The following actions and/or documents are being prepared in July 2024.

• Response to Comments on the Five-Year Review
• Draft L Range Environmental Monitoring Report March 2023 – February 2024
• Response to Comments on J-3 Range Environmental Monitoring Report for September 2022 – August 2023 with Plume Shell Technical Memorandum
• IAGWSP Comprehensive PFAS Report
• Sitewide Plume Booklet
• Central Impact Area 2021 Source Removal Report Addendum
• Central Impact Area 2023 Source Removal Report
• Responses to Comments on Draft J-2 Range Eastern Environmental Monitoring Report for November 2022 – October 2023
• Final J-2 Range Eastern Optimization at J2EW0005 Project Note
• Final Central Impact Area EMR July 2022- August 2023
• Draft J-1 Range South EMR January 2023-December 2023
• Draft J-1 Range North EMR January 2023-December 2023

TABLE 1
Sampling Progress: 01 to 30 June 2024

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J3 Range	J3EWIP2	J3EWIP2_F24	N	06/27/2024	Process Water	150.5	170.5
J3 Range	J3EWIP2	J3EWIP2_F24D	FD	06/27/2024	Process Water	150.5	170.5
J3 Range	J3EWIP1	J3EWIP1_F24	N	06/27/2024	Process Water	153	193
J3 Range	J3EW0032	J3EW0032_F24	N	06/27/2024	Process Water	102	152
J3 Range	90EW0001	90EW0001_F24	N	06/27/2024	Process Water	83.1	143.8
J1 Range Northern	MW-590M2	MW-590M2_S24	N	06/20/2024	Ground Water	238	248
J1 Range Northern	MW-590M2	MW-590M2_S24D	FD	06/20/2024	Ground Water	238	248
J1 Range Northern	MW-590M1	MW-590M1_S24	N	06/20/2024	Ground Water	258	268
J1 Range Northern	MW-401M3	MW-401M3_S24	N	06/20/2024	Ground Water	228.5	238.5
J1 Range Northern	MW-401M1	MW-401M1_S24	N	06/18/2024	Ground Water	256.1	266.1
J1 Range Northern	MW-430M2	MW-430M2_S24	N	06/18/2024	Ground Water	188.41	198.41
J1 Range Northern	MW-430M1	MW-430M1_S24	N	06/18/2024	Ground Water	245.23	255.23
J1 Range Northern	MW-540M1	MW-540M1_S24	N	06/18/2024	Ground Water	258	268
J1 Range Northern	MW-541M1	MW-541M1_S24	N	06/17/2024	Ground Water	210	220
J1 Range Northern	MW-689M2	MW-689M2_S24	N	06/17/2024	Ground Water	231.4	241.4
J1 Range Northern	MW-689M1	MW-689M1_S24	N	06/17/2024	Ground Water	253.5	263.5
J1 Range Northern	MW-688M2	MW-688M2_S24	N	06/17/2024	Ground Water	227.8	237.8
J1 Range Northern	MW-688M1	MW-688M1_S24	N	06/17/2024	Ground Water	255.2	265.2
J1 Range Northern	MW-584M2	MW-584M2_S24	N	06/13/2024	Ground Water	228	238
J1 Range Northern	MW-584M1	MW-584M1_S24	N	06/13/2024	Ground Water	248	258
J1 Range Northern	J1NEW0002	J1N-INF1B_S24	N	06/13/2024	Process Water	200	250
J1 Range Northern	J1NEW0001	J1N-INF1A_S24	N	06/13/2024	Process Water	217	257
J1 Range Northern	MW-303M2	MW-303M2_S24	N	06/12/2024	Ground Water	235.09	245.1
J1 Range Northern	MW-303M2	MW-303M2_S24D	FD	06/12/2024	Ground Water	235.09	245.1
J1 Range Northern	MW-245M2	MW-245M2_S24	N	06/12/2024	Ground Water	204	214
J1 Range Northern	MW-245M2	MW-245M2_S24D	FD	06/12/2024	Ground Water	204	214
J3 Range	LKSNK0007	LKSNK0007_S24	N	06/12/2024	Surface Water	0	0
J3 Range	LKSNK0005	LKSNK0005_S24	N	06/12/2024	Surface Water	0	0
J1 Range Northern	MW-567M1	MW-567M1_S24	N	06/11/2024	Ground Water	215.5	225.5
J1 Range Northern	MW-605M2	MW-605M2_S24	N	06/11/2024	Ground Water	182.2	192.2
J1 Range Northern	MW-605M1	MW-605M1_S24	N	06/11/2024	Ground Water	220.2	230.2
J1 Range Southern	J1S-EFF	J1S-EFF-199A	N	06/11/2024	Process Water	0	0
J1 Range Southern	J1S-MID	J1S-MID-199A	N	06/11/2024	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-199A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA2-EFF	CIA2-EFF-125A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-125A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-125A	N	06/11/2024	Process Water	0	0
J1 Range Northern	MW-549M2	MW-549M2_S24	MS	06/11/2024	Ground Water	187.3	197.3
J1 Range Northern	MW-549M2	MW-549M2_S24	N	06/11/2024	Ground Water	187.3	197.3
J1 Range Northern	MW-549M2	MW-549M2_S24	SD	06/11/2024	Ground Water	187.3	197.3
Central Impact Area	CIA2-INF	CIA2-INF-125A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA1-EFF	CIA1-EFF-125A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-125A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA1-MID1	CIA1-MID1-125A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-125A	N	06/11/2024	Process Water	0	0
J1 Range Northern	MW-549M1	MW-549M1_S24	N	06/11/2024	Ground Water	227.4	237.4
Central Impact Area	CIA3-EFF	CIA3-EFF-96A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA3-MID2	CIA3-MID2-96A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA3-MID1	CIA3-MID1-96A	N	06/11/2024	Process Water	0	0
Central Impact Area	CIA3-INF	CIA3-INF-96A	N	06/11/2024	Process Water	0	0
J3 Range	J3-EFF	J3-EFF-213A	N	06/10/2024	Process Water	0	0
J3 Range	J3-MID-2	J3-MID-2-213A	N	06/10/2024	Process Water	0	0
J3 Range	J3-MID-1	J3-MID-1-213A	N	06/10/2024	Process Water	0	0
J3 Range	J3-INF	J3-INF-213A	N	06/10/2024	Process Water	0	0
Demolition Area 1	FPR-2-EFF-A	FPR-2-EFF-A-219A	N	06/10/2024	Process Water	0	0
J1 Range Northern	MW-566M1	MW-566M1_S24	N	06/10/2024	Ground Water	232	242
Demolition Area 1	FPR-2-GAC-MID1A	FPR-2-GAC-MID1A-219A	N	06/10/2024	Process Water	0	0
Demolition Area 1	FPR2-POST-IX-A	FPR2-POST-IX-A-219A	N	06/10/2024	Process Water	0	0
Demolition Area 1	FPR-2-INF	FPR-2-INF-219A	N	06/10/2024	Process Water	0	0

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 June 2024

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Northern	MW-547M2	MW-547M2_S24	N	06/10/2024	Ground Water	178	188
Demolition Area 1	D1LE-EFF	D1LE-EFF-95A	N	06/10/2024	Process Water	0	0
Demolition Area 1	D1LE-MID2	D1LE-MID2-95A	N	06/10/2024	Process Water	0	0
Demolition Area 1	D1LE-MID1	D1LE-MID1-95A	N	06/10/2024	Process Water	0	0
Demolition Area 1	D1LE-INF	D1LE-INF-95A	N	06/10/2024	Process Water	0	0
J1 Range Northern	MW-547M1	MW-547M1_S24	N	06/10/2024	Ground Water	237	247
Demolition Area 1	D1-EFF	D1-EFF-167A	N	06/10/2024	Process Water	0	0
J1 Range Northern	MW-606M2	MW-606M2_S24	MS	06/10/2024	Ground Water	193.2	203.2
J1 Range Northern	MW-606M2	MW-606M2_S24	N	06/10/2024	Ground Water	193.2	203.2
J1 Range Northern	MW-606M2	MW-606M2_S24	SD	06/10/2024	Ground Water	193.2	203.2
Demolition Area 1	D1-MID-2	D1-MID-2-167A	N	06/10/2024	Process Water	0	0
Demolition Area 1	D1-MID-1	D1-MID-1-167A	N	06/10/2024	Process Water	0	0
Demolition Area 1	D1-INF	D1-INF-167A	N	06/10/2024	Process Water	0	0
J1 Range Northern	MW-606M1	MW-606M1_S24	N	06/10/2024	Ground Water	233.3	243.3
J1 Range Southern	MW-403M2	MW-403M2_S24	N	06/06/2024	Ground Water	127.26	137.36
J1 Range Southern	MW-403M1	MW-403M1_S24	N	06/06/2024	Ground Water	159.9	169.89
J1 Range Southern	MW-669M2	MW-669M2_S24	N	06/06/2024	Ground Water	201.7	211.7
J1 Range Southern	MW-669M1	MW-669M1_S24	N	06/06/2024	Ground Water	223.7	233.7
J1 Range Southern	MW-669M1	MW-669M1_S24D	FD	06/06/2024	Ground Water	223.7	233.7
J1 Range Southern	MW-591M2	MW-591M2_S24	N	06/05/2024	Ground Water	165	175
J1 Range Southern	MW-591M1	MW-591M1_S24	N	06/05/2024	Ground Water	200	210
J1 Range Southern	MW-647M2	MW-647M2_S24	N	06/05/2024	Ground Water	189.3	199.3
J1 Range Southern	MW-647M1	MW-647M1_S24	N	06/05/2024	Ground Water	211.3	221.3
J1 Range Southern	MW-670M2	MW-670M2_S24	N	06/05/2024	Ground Water	198.5	208.5
J1 Range Southern	MW-670M1	MW-670M1_S24	N	06/05/2024	Ground Water	220.5	230.5
J1 Range Southern	MW-722M2	MW-722M2_S24	N	06/04/2024	Ground Water	93.9	103.9
J1 Range Southern	MW-722M1	MW-722M1_S24	N	06/04/2024	Ground Water	114.2	124.2
J1 Range Southern	MW-722M1	MW-722M1_S24D	FD	06/04/2024	Ground Water	114.2	124.2
J2 Range Eastern	J2E-EFF-K	J2E-EFF-K-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-2K	J2E-MID-2K-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-1K	J2E-MID-1K-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-INF-K	J2E-INF-K-189A	N	06/04/2024	Process Water	0	0
J2 Range Northern	MW-737M2	MW-737M2_S24R	N	06/04/2024	Ground Water	257	267
J2 Range Eastern	J2E-EFF-J	J2E-EFF-J-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-2J	J2E-MID-2J-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-1J	J2E-MID-1J-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-INF-J	J2E-INF-J-189A	N	06/04/2024	Process Water	0	0
J2 Range Northern	MW-736M2	MW-736M2_S24R	N	06/04/2024	Ground Water	240	250
J2 Range Northern	MW-736M2	MW-736M2_S24RD	FD	06/04/2024	Ground Water	240	250
J2 Range Eastern	J2E-EFF-IH	J2E-EFF-IH-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-2H	J2E-MID-2H-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-1H	J2E-MID-1H-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-MID-2I	J2E-MID-2I-189A	N	06/04/2024	Process Water	0	0
J2 Range Northern	MW-736M1	MW-736M1_S24R	N	06/04/2024	Ground Water	285	295
J2 Range Eastern	J2E-MID-1I	J2E-MID-1I-189A	N	06/04/2024	Process Water	0	0
J2 Range Eastern	J2E-INF-I	J2E-INF-I-189A	N	06/04/2024	Process Water	0	0
J1 Range Southern	MW-402M2	MW-402M2_S24	N	06/03/2024	Ground Water	155.24	165.27
J1 Range Southern	MW-402M1	MW-402M1_S24	N	06/03/2024	Ground Water	190.14	200.13
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-INF-G	J2N-INF-G-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-213A	N	06/03/2024	Process Water	0	0
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-213A	N	06/03/2024	Process Water	0	0
J1 Range Southern	MW-400M2	MW-400M2_S24	MS	06/03/2024	Ground Water	138.9	148.9
J1 Range Southern	MW-400M2	MW-400M2_S24	N	06/03/2024	Ground Water	138.9	148.9

N = Normal Sample
FD = Field Duplicate

TABLE 1
Sampling Progress: 01 to 30 June 2024

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
J1 Range Southern	MW-400M2	MW-400M2_S24	SD	06/03/2024	Ground Water	138.9	148.9
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-213A	N	06/03/2024	Process Water	0	0
J1 Range Northern	J1N-EFF	J1N-EFF-128A	N	06/03/2024	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-128A	N	06/03/2024	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-128A	N	06/03/2024	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-128A	N	06/03/2024	Process Water	0	0
J1 Range Southern	MW-400M1	MW-400M1_S24	N	06/03/2024	Ground Water	192.76	202.75

N = Normal Sample
FD = Field Duplicate

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received June 2024

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
Demolition Area 1	MW-556M2	MW-556M2_S24	111	121	05/20/2024	SW6850	Perchlorate	0.13	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-556M1	MW-556M1_S24	153	163	05/20/2024	SW6850	Perchlorate	0.45		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-558M2	MW-558M2_S24	98	108	05/20/2024	SW6850	Perchlorate	0.092	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-558M1	MW-558M1_S24	134	144	05/20/2024	SW6850	Perchlorate	0.31		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-602M1	MW-602M1_S24	109	119	05/20/2024	SW6850	Perchlorate	4.4		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-602M1	MW-602M1_S24	109	119	05/20/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.099	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-559M2	MW-559M2_S24	87	97	05/16/2024	SW6850	Perchlorate	0.13	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-559M1	MW-559M1_S24	135.6	145.6	05/16/2024	SW6850	Perchlorate	0.20		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-582M2	MW-582M2_S24	84	94	05/16/2024	SW6850	Perchlorate	0.16	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-582M1	MW-582M1_S24	134	144	05/16/2024	SW6850	Perchlorate	0.30		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-571M2	MW-571M2_S24	74	84	05/15/2024	SW6850	Perchlorate	0.14	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-571M1	MW-571M1_S24	114	124	05/15/2024	SW6850	Perchlorate	0.67		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-569M2	MW-569M2_S24	84	94	05/15/2024	SW6850	Perchlorate	0.083	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-569M1	MW-569M1_S24	114	124	05/15/2024	SW6850	Perchlorate	0.38		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-611M2	MW-611M2_S24	91	101	05/13/2024	SW6850	Perchlorate	1.2		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-611M1	MW-611M1_S24	141	151	05/13/2024	SW6850	Perchlorate	1.9		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-611M1	MW-611M1_S24D	141	151	05/13/2024	SW6850	Perchlorate	1.9		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-610M2	MW-610M2_S24	85	95	05/13/2024	SW6850	Perchlorate	0.047	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-610M1	MW-610M1_S24	110	120	05/13/2024	SW6850	Perchlorate	0.14	J	µg/L	2.0		0.039	0.20
Demolition Area 1	XX9514	XX9514_S24	0	0	05/13/2024	SW6850	Perchlorate	2.0		µg/L	2.0		0.039	0.20
Demolition Area 1	XX9514	XX9514_S24	0	0	05/13/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.12	J	µg/L	0.60		0.043	0.20
Demolition Area 1	XX9514	XX9514_S24D	0	0	05/13/2024	SW6850	Perchlorate	1.9		µg/L	2.0		0.039	0.20
Demolition Area 1	XX9514	XX9514_S24D	0	0	05/13/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.15	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-641M2	MW-641M2_S24	86.2	96.2	05/09/2024	SW6850	Perchlorate	0.17	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-641M1	MW-641M1_S24	113.2	123.2	05/09/2024	SW6850	Perchlorate	0.83		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-642M2	MW-642M2_S24	77.3	87.3	05/09/2024	SW6850	Perchlorate	0.15	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-642M1	MW-642M1_S24	104.3	114.3	05/09/2024	SW6850	Perchlorate	0.35		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-659M2	MW-659M2_S24	85	95	05/08/2024	SW6850	Perchlorate	0.10	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-659M1	MW-659M1_S24	120	130	05/08/2024	SW6850	Perchlorate	0.14	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-597M2	MW-597M2_S24	118	128	05/08/2024	SW6850	Perchlorate	0.082	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-597M1	MW-597M1_S24	148	158	05/08/2024	SW6850	Perchlorate	0.057	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-543M2	MW-543M2_S24	91.8	101.8	05/07/2024	SW6850	Perchlorate	0.039	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-543M1	MW-543M1_S24	127	137	05/07/2024	SW6850	Perchlorate	0.046	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-546M2	MW-546M2_S24	100	110	05/07/2024	SW6850	Perchlorate	0.058	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-546M1	MW-546M1_S24	140	150	05/07/2024	SW6850	Perchlorate	0.061	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-544M2	MW-544M2_S24	112	122	05/06/2024	SW6850	Perchlorate	0.12	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-544M1	MW-544M1_S24	162	172	05/06/2024	SW6850	Perchlorate	6.3		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-544M1	MW-544M1_S24	162	172	05/06/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.85		µg/L	0.60	X	0.043	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

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received June 2024

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
Demolition Area 1	MW-544M1	MW-544M1_S24D	162	172	05/06/2024	SW6850	Perchlorate	6.2		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-544M1	MW-544M1_S24D	162	172	05/06/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.86		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-545M4	MW-545M4_S24	72	82	05/06/2024	SW6850	Perchlorate	0.14	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-545M3	MW-545M3_S24	101.5	111.5	05/06/2024	SW6850	Perchlorate	0.40		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-545M2	MW-545M2_S24	142	152	05/06/2024	SW6850	Perchlorate	1.8		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-545M2	MW-545M2_S24	142	152	05/06/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.052	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-545M1	MW-545M1_S24	162	172	05/06/2024	SW6850	Perchlorate	0.99		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-353M1	MW-353M1_S24	107	117	05/02/2024	SW6850	Perchlorate	0.087	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-532M2	MW-532M2_S24	138	148	05/02/2024	SW6850	Perchlorate	0.52		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-532M1	MW-532M1_S24	168	178	05/02/2024	SW6850	Perchlorate	0.35		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-532M1	MW-532M1_S24	168	178	05/02/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.045	J	µg/L	7.3		0.038	0.20
Demolition Area 1	MW-732M2	MW-732M2_S24	96.2	106.2	05/01/2024	SW6850	Perchlorate	0.32		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-732M1	MW-732M1_S24	156	166	05/01/2024	SW6850	Perchlorate	0.10	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-731M3	MW-731M3_S24	160.1	170.1	05/01/2024	SW6850	Perchlorate	0.89		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-731M3	MW-731M3_S24	160.1	170.1	05/01/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.31		µg/L	0.60		0.043	0.20
Demolition Area 1	MW-731M2	MW-731M2_S24	190.9	200.9	05/01/2024	SW6850	Perchlorate	2.7		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-731M2	MW-731M2_S24	190.9	200.9	05/01/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.21		µg/L	0.60		0.043	0.20
Demolition Area 1	MW-731M1	MW-731M1_S24	220.8	230.8	05/01/2024	SW6850	Perchlorate	1.5		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-542M1	MW-542M1_S24	144	154	04/30/2024	SW6850	Perchlorate	0.065	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-533M1	MW-533M1_S24	160	170	04/30/2024	SW6850	Perchlorate	8.7		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-533M1	MW-533M1_S24	160	170	04/30/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.9		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-533M1	MW-533M1_S24D	160	170	04/30/2024	SW6850	Perchlorate	8.7		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-533M1	MW-533M1_S24D	160	170	04/30/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	3.0		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-730M3	MW-730M3_S24	115.46	125.46	04/30/2024	SW6850	Perchlorate	2.1		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-730M3	MW-730M3_S24	115.46	125.46	04/30/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-730M2	MW-730M2_S24	165.87	175.87	04/30/2024	SW6850	Perchlorate	7.4		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-730M2	MW-730M2_S24	165.87	175.87	04/30/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	3.2		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-730M2	MW-730M2_S24D	165.87	175.87	04/30/2024	SW6850	Perchlorate	7.7		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-730M2	MW-730M2_S24D	165.87	175.87	04/30/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	3.1		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-730M1	MW-730M1_S24	185.82	195.82	04/30/2024	SW6850	Perchlorate	4.7		µg/L	2.0	X	0.039	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
July 08, 2024

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received June 2024

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
Demolition Area 1	MW-730M1	MW-730M1_S24	185.82	195.82	04/30/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.24		µg/L	0.60		0.043	0.20
Demolition Area 1	MW-531M1	MW-531M1_S24	138	148	04/29/2024	SW6850	Perchlorate	6.7		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-531M1	MW-531M1_S24	138	148	04/29/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.75		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-531M1	MW-531M1_S24D	138	148	04/29/2024	SW6850	Perchlorate	6.5		µg/L	2.0	X	0.039	0.20
Demolition Area 1	MW-531M1	MW-531M1_S24D	138	148	04/29/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.85		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-696M1	MW-696M1_S24	175.2	185.2	04/29/2024	SW6850	Perchlorate	1.9		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-258M3	MW-258M3_S24	77	82	04/29/2024	SW6850	Perchlorate	0.086	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-258M2	MW-258M2_S24	87	92	04/29/2024	SW6850	Perchlorate	0.068	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-258M1	MW-258M1_S24	109	119	04/29/2024	SW6850	Perchlorate	0.63		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-697M1	MW-697M1_S24	243	253	04/25/2024	SW6850	Perchlorate	1.1		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-248M3	MW-248M3_S24	143	153	04/25/2024	SW6850	Perchlorate	0.048	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-248M1	MW-248M1_S24	216.3	226.3	04/25/2024	SW6850	Perchlorate	2.0		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-664M2	MW-664M2_S24	218.5	228.5	04/24/2024	SW6850	Perchlorate	0.042	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-664M1	MW-664M1_S24	248.5	258.5	04/24/2024	SW6850	Perchlorate	0.054	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-663D	MW-663D_S24	240.6	250.6	04/24/2024	SW6850	Perchlorate	1.7		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-663D	MW-663D_S24	240.6	250.6	04/24/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.35	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-663D	MW-663D_S24D	240.6	250.6	04/24/2024	SW6850	Perchlorate	1.6		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-663D	MW-663D_S24D	240.6	250.6	04/24/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.31	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-231M2	MW-231M2_S24	165.5	175.5	04/24/2024	SW6850	Perchlorate	0.32		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-231M1	MW-231M1_S24	210.5	220.5	04/24/2024	SW6850	Perchlorate	0.15	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-231M1	MW-231M1_S24	210.5	220.5	04/24/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.058	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-240M2	MW-240M2_S24	125	135	04/23/2024	SW6850	Perchlorate	0.097	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-662D	MW-662D_S24	202.3	212.3	04/23/2024	SW6850	Perchlorate	0.52		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-225M3	MW-225M3_S24	125	135	04/23/2024	SW6850	Perchlorate	0.081	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-225M3	MW-225M3_S24	125	135	04/23/2024	SW8330	2-Nitrotoluene	0.14	J	µg/L	0.31		0.049	0.20
Demolition Area 1	MW-225M1	MW-225M1_S24	175	185	04/23/2024	SW6850	Perchlorate	0.081	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-431	MW-431_S24	88	180	04/22/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.046	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-341M3	MW-341M3_S24	209.5	219.5	04/22/2024	SW6850	Perchlorate	0.18	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-341M2	MW-341M2_S24	264.5	269.5	04/22/2024	SW6850	Perchlorate	0.13	J	µg/L	2.0		0.039	0.20
Demolition Area 1	MW-341M2	MW-341M2_S24	264.5	269.5	04/22/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.066	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-211M1	MW-211M1_S24	200	210	04/22/2024	SW6850	Perchlorate	0.25		µg/L	2.0		0.039	0.20
Demolition Area 1	MW-210M2	MW-210M2_S24	156	166	04/22/2024	SW6850	Perchlorate	0.23		µg/L	2.0		0.039	0.20
Demolition Area 1	EW-658	EW-658_S24	96	136	04/18/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.045	J	µg/L	7.3		0.038	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

TABLE 2
VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS
Data Received June 2024

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
Demolition Area 1	MW-31S	MW-31S_S24	98	103	04/18/2024	SW8330	2,4,6-Trinitrotoluene	0.41	J	µg/L	2.0		0.096	0.20
Demolition Area 1	MW-31S	MW-31S_S24	98	103	04/18/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.090	J	µg/L	7.3		0.038	0.20
Demolition Area 1	MW-31S	MW-31S_S24	98	103	04/18/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.25		µg/L	0.60		0.043	0.20
Demolition Area 1	MW-31S	MW-31S_S24D	98	103	04/18/2024	SW8330	2,4,6-Trinitrotoluene	0.42		µg/L	2.0		0.096	0.20
Demolition Area 1	MW-31S	MW-31S_S24D	98	103	04/18/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.079	J	µg/L	7.3		0.038	0.20
Demolition Area 1	MW-31S	MW-31S_S24D	98	103	04/18/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.23		µg/L	0.60		0.043	0.20
Demolition Area 1	MW-73S	MW-73S_S24	38.5	48	04/18/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.049	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-73S	MW-73S_S24D	38.5	48	04/18/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.046	J	µg/L	0.60		0.043	0.20
Demolition Area 1	MW-19S	MW-19S_S24	38	48	04/18/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.066	J	µg/L	7.3		0.038	0.20
Demolition Area 1	MW-19S	MW-19S_S24	38	48	04/18/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.74		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-19S	MW-19S_S24	38	48	04/18/2024	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.17	J	µg/L	400		0.091	0.20
Demolition Area 1	MW-19S	MW-19S_S24D	38	48	04/18/2024	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.68		µg/L	0.60	X	0.043	0.20
Demolition Area 1	MW-19S	MW-19S_S24D	38	48	04/18/2024	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.18	J	µg/L	400		0.091	0.20
Demolition Area 1	MW-77M2	MW-77M2_S24	120	130	04/17/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.060	J	µg/L	7.3		0.038	0.20
Demolition Area 1	MW-77M2	MW-77M2_S24D	120	130	04/17/2024	SW8330	2-Amino-4,6-dinitrotoluene	0.057	J	µg/L	7.3		0.038	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

TABLE 3
VALIDATED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) RESULTS
Data Received June 2024

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
J2 Range Northern	MW-737M2	MW-737M2_S24R	257	267	06/04/2024	E1633DR	Perfluorohexanoic acid (PFHxA)	0.49	J	ng/L	990		0.45	1.8
J2 Range Northern	MW-736M2	MW-736M2_S24RD	240	250	06/04/2024	E1633DR	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	46.0	J	ng/L			2.0	7.9
J2 Range Northern	MW-736M2	MW-736M2_S24RD	240	250	06/04/2024	E1633DR	Perfluorohexanesulfonic acid (PFHxS)	0.65	J	ng/L	20.0		0.49	2.0

J = Estimated Result
MDL = Method Detection Limit
RL = Reporting Limit

MCL/HA= Either the MCL or Lowest Health Advisory Limit