

**MONTHLY PROGRESS REPORT #251  
FOR FEBRUARY 2018**

**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 1 February to 28 February 2018.

**1. SUMMARY OF REMEDIATION ACTIONS**

The following is a description of Remediation Actions (RA) underway at Camp Edwards as of February 2018.

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, Pew Road, Base Boundary, and the Leading Edge include extraction wells, ex-situ treatment processes 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. The treatment facility continues to operate at a flow rate of 175 gpm, with over 2.540 billion gallons of water treated and re-injected as of 23 February 2018. The following Frank Perkins Road facility shut down occurred in February:

- Shut down at 1030 on 8 February 2018 due to a power outage. The Treatment Facility was restarted at 1134 on 8 February 2018.

The Pew Road Mobile Treatment Unit (MTU) continues to operate at a flow rate of 103 gpm with over 561.1 million gallons of water treated and re-injected as of 23 February 2018. The following Pew Road MTU shut downs occurred in February:

- Turned off at 1200 on 30 January 2018 to drain GAC vessels #5 and #6 for carbon change out on 31 January 2018; and
- Shut down at 1030 on 8 February due to a power outage. The MTU was restarted at 1310 on 8 February 2018.

The Base Boundary MTU is operating at a flow rate of 65 gpm with over 190.7 million gallons of water treated and re-injected as of 23 February 2018. No Base Boundary MTU shut downs occurred in February.

The Leading Edge system continues to operate at a flow rate of 100 gpm with over 92.2 million gallons of water treated and re-injected as of 23 February 2018. No Leading Edge system shut downs occurred in February.

### J-2 Range Groundwater RA

#### Northern Plant

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, 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 Treatment Building continues to operate at a flow rate of 225 gpm. As of 23 February 2018, over 974.9 million gallons of water have been treated and re-injected. No Northern Treatment Building shutdowns occurred in February.

The Northern MTUs E and F continue to operate at a flow rate of 250 gpm. As of 23 February 2018, over 1.430 billion gallons of water have been treated and re-injected. No J-2 Range Northern MTU shut down occurred in February.

#### Eastern Plant

The J-2 Range Eastern Treatment facility 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 will enter the vadose zone and infiltrate 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 23 February 2018, over 1.050 billion gallons of water have been treated and re-injected. No MTU H and I shut downs occurred in February.

MTU J continues to operate at a flow rate of 120 gpm. As of 23 February 2018, over 484.7 million gallons of water have been treated and re-injected. No shut downs of MTU J occurred in February.

MTU K continues to operate at a flow rate of 125 gpm. As of 23 February 2018, over 597.8 million gallons of water have been treated and re-injected. The following shut downs and restarts of MTU K occurred in February:

- The MTU was restarted at 0815 on 1 February 2018, after carbon changeout on 31 January 2018.
- Turned off at 0850 on 12 February 2018 to replace a leaking hose. The MTU was restarted at 0920 on 12 February 2018.

### 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, ex-situ treatment process to remove explosives compounds and perchlorate from the

groundwater and use of 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 235 gpm (while J3EW0032 is running at 45 gpm instead of 65 gpm). As of 23 February 2018, over 1.086 billion gallons of water have been treated and re-injected. The following J-3 Range system shut downs occurred in February:

- Turned off at 0900 on 5 February 2018 to troubleshoot J3EW0032 flow issues. The system was restarted at 1120 on 5 February 2018;
- Shut down at 0655 on 9 February due to FS-12 being down. The system was restarted at 0835 on 9 February 2018; and
- Shut down at 0314 on 19 February 2018 due to FS-12 being down. The System was restarted at 0806 on 20 February 2018.

### J-1 Range Groundwater RA

#### Southern Plant

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, 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 continues to operate at a flow rate of 125 gpm. As of 23 February 2018, over 465.3 million gallons of water have been treated and re-injected. No J-1 Range Southern system shut downs occurred in February.

#### Northern Plant

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, 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 23 February 2018, over 544.0 million gallons of water have been treated and re-injected. No J-1 Range Northern MTU shut downs occurred in February.

### Central Impact Area RA

The Central Impact Area (CIA) Groundwater treatment facility 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 (IX) resin and granular activated carbon (GAC) 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 23 February 2018, over 1.242 billion gallons of water have been treated and re-injected. The following CIA treatment facility shut downs occurred in February:

- System 1 shut down at 1030 on 8 February 2018 to due to a power outage. System 1 was restarted at 1150 on 8 February 2018; and
- System 2 shut down at 1030 on 8 February due to a power outage. The system was restarted at 1214 on 8 February 2018.

## **SUMMARY OF ACTIONS TAKEN**

Samples collected during the reporting period are summarized in Table 1.

Process water samples were collected from the Central Impact Area (CIA), J-1 Range Northern, J-1 Range Southern, and J-2 Range Northern.

Environmental and system performance monitoring groundwater samples were collected from B Range, C Range, Central Impact Area, CS-10, Demolition Area 1, G Range, J-2 Range Eastern, J-2 Range Northern, and Northwest Corner.

Installed MW-697M1 (Demo 1; Profile B).

Replaced road boxes at MW-430 and MW-549 (J1 North).

Performed routine inspections of BEM cover at the CIA to ensure cover is secure and intact.

Transportation and Disposal of soil excavated from Former B, C, and Ranges.

Developed MW-696M1, MW-697M1, and MW-698M1.

## **JBCC IAGWSP Tech Update Meeting Minutes 12 February 2018**

### **Project and Fieldwork Update**

The Tech Update Meeting was conducted via conference call, focusing on the Action Items list. No other Tech Update Meetings were held in February.

### **Action Items**

Action items were discussed and updated.

### **JBCC Cleanup Team Meeting**

The next JBCC Cleanup Team (JBCCCT) meeting is scheduled for April 11, 2018. 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.

## **SUMMARY OF DATA RECEIVED**

Table 2 summarizes the validated detections of explosives compounds and perchlorate for all groundwater results received from 1 February to 28 February 2018. 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.

Twelve operable units (OU) are under investigation and cleanup at Camp Edwards. The OUs include: Central Impact Area, Demolition Area 1, Demolition Area 2, Former A Range, J-1 Range, J-2 Range, J-3 Range, L Range, Northwest Corner, Small Arms Ranges, Training Areas, and Western Boundary. 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).

**2. DELIVERABLES SUBMITTED**

Deliverables submitted during the reporting period include the following:

- Monthly Progress Report No. 250 for January 2018 01/10/2018
- Draft 2017 Land Use Controls Monitoring Report, Impact Area Groundwater Study Program 02/07/2018
- Final 2016 Central Impact Area Source Removal Annual Report (22 FEB 2018) 02/22/2018

**3. SCHEDULED ACTIONS**

The following documents are being prepared or revised during March 2018:

- Training Areas Draft Decision Document;
- Land Use Controls Monitoring Report;
- CIA Quality Assurance Project Plan for UXO;
- Northwest Corner 2017 Annual Environmental Monitoring Report;
- Project notes for proposed wells in Demolition Area 1, Central Impact Area, J-3 Range and J-2 Range.

**TABLE 1**  
**Sampling Progress: 1 February to 28 February 2018**

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Northwest Corner	MW-284M2	MW-284M2_S18	N	02/22/2018	Ground Water	45	55
Northwest Corner	MW-284M2	MW-284M2_S18	N	02/22/2018	Ground Water	45	55
Northwest Corner	MW-284M1	MW-284M1_S18	N	02/22/2018	Ground Water	115	125
Northwest Corner	MW-284M1	MW-284M1_S18	N	02/22/2018	Ground Water	115	125
J2 Range Eastern	MW-368M2	MW-368M2_S18	N	02/22/2018	Ground Water	202.7	212.7
J2 Range Eastern	MW-368M2	MW-368M2_S18D	FD	02/22/2018	Ground Water	202.7	212.7
J2 Range Eastern	MW-339M1	MW-339M1_S18	N	02/22/2018	Ground Water	233	243
J2 Range Eastern	MW-324M2	MW-324M2_S18	N	02/21/2018	Ground Water	203.7	214.7
J2 Range Eastern	MW-324M1	MW-324M1_S18	N	02/21/2018	Ground Water	234.9	244.9
J2 Range Eastern	J2MW-04M2	J2MW-04M2_S18	N	02/21/2018	Ground Water	210	220
J2 Range Eastern	J2MW-04M1	J2MW-04M1_S18	N	02/21/2018	Ground Water	257	267
Demolition Area 1	MW-35S	MW-35S_S18	N	02/20/2018	Ground Water	84	94
GA Range	MW-690S	MW-690S_S18	N	02/20/2018	Ground Water	99.2	109.2
CS-10 (ARNG)	03MW0709	03MW0709_S18	N	02/15/2018	Ground Water	82.1	87.1
G Range	MW-470S	MW-470S_S18	N	02/13/2018	Ground Water	76.3	86.3
G Range	MW-470S	MW-470S_S18D	FD	02/13/2018	Ground Water	76.3	86.3
Demolition Area 1	MW-36S	MW-36S_S18	N	02/13/2018	Ground Water	73	83
Central Impact Area	MW-123S	MW-123S_S18	N	02/13/2018	Ground Water	139	149
B Range	MW-455S	MW-455S_S18	N	02/13/2018	Ground Water	117.6	127.6
Central Impact Area	MW-455S	MW-455S_S18	N	02/13/2018	Ground Water	117.6	127.6
C Range	MW-456S	MW-456S_S18	N	02/12/2018	Ground Water	150.3	160.3
C Range	MW-491S	MW-491S_S18	N	02/12/2018	Ground Water	146.9	156.9
B Range	MW-539M1	MW-539M1_S18	N	02/12/2018	Ground Water	113	123
B Range	MW-539M1	MW-539M1_S18D	FD	02/12/2018	Ground Water	113	123
B Range	MW-490S	MW-490S_S18	N	02/08/2018	Ground Water	108.1	118.1
J2 Range Northern	J2EW0001	J2EW0001_S18	N	02/07/2018	Ground Water	179	234
J2 Range Northern	J2EW0002	J2EW0002_S18	N	02/07/2018	Ground Water	198	233
J2 Range Northern	J2EW0002	J2EW0002_S18D	FD	02/07/2018	Ground Water	198	233
J2 Range Northern	J2EW0003	J2EW0003_S18	N	02/07/2018	Ground Water	202	232
J2 Range Northern	J2EW1-MW1-C	J2EW1-MW1-C_S18	N	02/06/2018	Ground Water	240.8	250.8
J1 Range Southern	J1S-EFF	J1S-EFF-123A	N	02/06/2018	Process Water	0	0
J1 Range Southern	J1S-MID-2	J1S-MID-2-123A	N	02/06/2018	Process Water	0	0
J1 Range Southern	J1S-INF-2	J1S-INF-2-123A	N	02/06/2018	Process Water	0	0
J2 Range Northern	MW-612M2	MW-612M2_S18	N	02/06/2018	Ground Water	267	277
J2 Range Northern	J2N-EFF-G	J2N-EFF-G-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-MID-2G	J2N-MID-2G-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	MW-612M1	MW-612M1_S18	N	02/06/2018	Ground Water	297	307
J2 Range Northern	J2N-MID-1G	J2N-MID-1G-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-INF-G	J2N-INF-G-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-EFF-EF	J2N-EFF-EF-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-MID-2F	J2N-MID-2F-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-MID-1F	J2N-MID-1F-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	MW-613M2	MW-613M2_S18	N	02/06/2018	Ground Water	246.1	256.1
J2 Range Northern	J2N-INF-EF	J2N-INF-EF-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-MID-2E	J2N-MID-2E-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	J2N-MID-1E	J2N-MID-1E-137A	N	02/06/2018	Process Water	0	0
J2 Range Northern	MW-613M1	MW-613M1_S18	N	02/06/2018	Ground Water	267.1	277.1
J1 Range Northern	J1N-EFF	J1N-EFF-52A	N	02/06/2018	Process Water	0	0
J1 Range Northern	J1N-MID2	J1N-MID2-52A	N	02/06/2018	Process Water	0	0
J1 Range Northern	J1N-MID1	J1N-MID1-52A	N	02/06/2018	Process Water	0	0
J1 Range Northern	J1N-INF2	J1N-INF2-52A	N	02/06/2018	Process Water	0	0
J2 Range Northern	MW-313M3	MW-313M3_S18	N	02/01/2018	Ground Water	195.1	205.6
Central Impact Area	CIA2-EFF	CIA2-EFF-49A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA2-MID2	CIA2-MID2-49A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA2-MID1	CIA2-MID1-49A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA2-INF	CIA2-INF-49A	N	02/01/2018	Process Water	0	0
J2 Range Northern	MW-313M2	MW-313M2_S18	N	02/01/2018	Ground Water	215.5	225.5
Central Impact Area	CIA1-EFF	CIA1-EFF-49A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA1-MID2	CIA1-MID2-49A	N	02/01/2018	Process Water	0	0

**TABLE 1**  
**Sampling Progress: 1 February to 28 February 2018**

Area Of Concern	Location	Field Sample ID	Sample Type	Date Sampled	Matrix	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
Central Impact Area	CIA1-MID1	CIA1-MID1-49A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA1-INF	CIA1-INF-49A	N	02/01/2018	Process Water	0	0
J2 Range Northern	MW-313M1	MW-313M1_S18	N	02/01/2018	Ground Water	255.4	265.4
J2 Range Northern	MW-313M1	MW-313M1_S18D	FD	02/01/2018	Ground Water	255.4	265.4
Central Impact Area	CIA3-EFF	CIA3-EFF-20A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA3-MID2	CIA3-MID2-20A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA3-MID1	CIA3-MID1-20A	N	02/01/2018	Process Water	0	0
Central Impact Area	CIA3-INF	CIA3-INF-20A	N	02/01/2018	Process Water	0	0
J2 Range Northern	MW-630M1	MW-630M1_S18	N	02/01/2018	Ground Water	217	227

**TABLE 2**  
**VALIDATED EXPLOSIVE AND PERCHLORATE RESULTS**  
 Data Received February 2018

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
J3 Range	MW-347S	MW-347S_S18	105	115	01/11/2018	SW6850	Perchlorate	0.044	J	ug/L	2.0		0.012	0.20
J3 Range	MW-364M1	MW-364M1_S18	147	157	01/11/2018	SW6850	Perchlorate	0.044	J	ug/L	2.0		0.012	0.20
J3 Range	MW-383M2	MW-383M2_S18	150.6	160.6	01/11/2018	SW6850	Perchlorate	0.049	J	ug/L	2.0		0.012	0.20
J3 Range	MW-383M2	MW-383M2_S18	150.6	160.6	01/11/2018	SW8330	4-Amino-2,6-dinitrotoluene	0.23		ug/L	7.3		0.015	0.20
Central Impact Area	MW-152M2	MW-152M2_S18	154	164	01/10/2018	SW6850	Perchlorate	0.045	J	ug/L	2.0		0.012	0.20
Central Impact Area	MW-118M2	MW-118M2_S18	116	126	01/10/2018	SW6850	Perchlorate	0.061	J	ug/L	2.0		0.012	0.20
J3 Range	MW-636M2	MW-636M2_S18	110.5	120.5	01/09/2018	SW6850	Perchlorate	0.077	J	ug/L	2.0		0.012	0.20
J3 Range	MW-636M1	MW-636M1_S18	141.6	151.6	01/09/2018	SW6850	Perchlorate	0.017	J	ug/L	2.0		0.012	0.20
J3 Range	MW-653M2	MW-653M2_S18	59.3	69.3	01/09/2018	SW6850	Perchlorate	0.051	J	ug/L	2.0		0.012	0.20
J3 Range	MW-653M1	MW-653M1_S18	147.5	157.5	01/09/2018	SW6850	Perchlorate	0.29		ug/L	2.0		0.012	0.20
J3 Range	MW-653M1	MW-653M1_S18	147.5	157.5	01/09/2018	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.66		ug/L	400		0.025	0.20
J3 Range	90EW0001	90EW0001_S18	83.1	143.8	01/08/2018	SW6850	Perchlorate	0.28		ug/L	2.0		0.012	0.20
J3 Range	J3EWIP2	J3EWIP2_S18	149.5	169.5	01/08/2018	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.36		ug/L	400		0.025	0.20
J3 Range	J3EWIP2	J3EWIP2_S18	149.5	169.5	01/08/2018	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.61		ug/L	0.60	X	0.036	0.20
J3 Range	J3EWIP2	J3EWIP2_S18	149.5	169.5	01/08/2018	SW6850	Perchlorate	3.7		ug/L	2.0	X	0.012	0.20
J3 Range	J3EWIP2	J3EWIP2_S18D	149.5	169.5	01/08/2018	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.35		ug/L	400		0.025	0.20
J3 Range	J3EWIP2	J3EWIP2_S18D	149.5	169.5	01/08/2018	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.59		ug/L	0.60		0.036	0.20
J3 Range	J3EWIP2	J3EWIP2_S18D	149.5	169.5	01/08/2018	SW6850	Perchlorate	3.6		ug/L	2.0	X	0.012	0.20
J3 Range	J3EWIP1	J3EWIP1_S18	153	193	01/08/2018	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.21		ug/L	400		0.025	0.20
J3 Range	J3EWIP1	J3EWIP1_S18	153	193	01/08/2018	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.38		ug/L	0.60		0.036	0.20
J3 Range	J3EWIP1	J3EWIP1_S18	153	193	01/08/2018	SW6850	Perchlorate	1.8		ug/L	2.0		0.012	0.20
J3 Range	MW-637M3	MW-637M3_S18	174.1	184.1	01/08/2018	SW6850	Perchlorate	0.076	J	ug/L	2.0		0.012	0.20
J3 Range	MW-637M2	MW-637M2_S18	214.1	224.1	01/08/2018	SW6850	Perchlorate	2.6		ug/L	2.0	X	0.012	0.20
Demolition Area 1	MW-545M4	MW-545M4_F17	72	82	12/21/2017	SW6850	Perchlorate	0.43		ug/L	2.0		0.012	0.20
Demolition Area 1	MW-545M3	MW-545M3_F17	101.5	111.5	12/21/2017	SW6850	Perchlorate	0.14	J	ug/L	2.0		0.012	0.20
Demolition Area 1	MW-545M2	MW-545M2_F17	142	152	12/21/2017	SW6850	Perchlorate	2.0		ug/L	2.0	X	0.012	0.20
Demolition Area 1	MW-545M1	MW-545M1_F17	162	172	12/21/2017	SW6850	Perchlorate	0.92		ug/L	2.0		0.012	0.20
Demolition Area 1	MW-544M3	MW-544M3_F17	77.5	87.5	12/21/2017	SW6850	Perchlorate	0.092	J	ug/L	2.0		0.012	0.20
Demolition Area 1	MW-544M2	MW-544M2_F17	112	122	12/21/2017	SW6850	Perchlorate	0.51		ug/L	2.0		0.012	0.20
Demolition Area 1	MW-544M1	MW-544M1_F17	162	172	12/20/2017	SW6850	Perchlorate	2.8		ug/L	2.0	X	0.012	0.20
Demolition Area 1	XX9514	XX9514_F17	102	112	12/20/2017	SW6850	Perchlorate	3.8		ug/L	2.0	X	0.012	0.20
J1 Range Northern	MW-166M3	MW-166M3_F17	125	135	12/11/2017	SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.42		ug/L	0.60		0.036	0.20
J1 Range Northern	MW-166M3	MW-166M3_F17	125	135	12/11/2017	SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.58		ug/L	400		0.025	0.20
J1 Range Northern	MW-166M3	MW-166M3_F17	125	135	12/11/2017	SW8330	4-Amino-2,6-dinitrotoluene	2.8		ug/L	7.3		0.015	0.20

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