

**INTERIM MONTH REPORT  
FOR JANUARY 1 – JANUARY 14, 2005**

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

**MASSACHUSETTS MILITARY RESERVATION  
TRAINING RANGE AND IMPACT AREA**

The following summary of progress is for the period from January 1 through January 14, 2005.

**1. SUMMARY OF REMEDIATION ACTIONS**

The following is a description of remediation actions taken as part of or in preparation for Rapid Response Action (RRA) Plans for various Areas of Concern at Camp Edwards through January 14, 2005. A Rapid Response Action is an interim action that may be conducted prior to risk assessments or remedial investigations to address a known, ongoing threat of contamination to groundwater and/or soil.

Demo Area 1 Groundwater RRA

The Demo Area 1 Groundwater RRA consists of the removal and treatment of contaminated groundwater to control further migration of explosives and perchlorate. Extraction, treatment, and recharge systems (ETR) at Frank Perkins Road and Pew Road has been designed and include single extraction wells, ex-situ treatment processes to remove explosives and perchlorate from the groundwater, and injection wells to return treated water to the aquifer.

The Pew Road ETR continues operation at a flow rate of 100 gallons per minute (gpm). Perchlorate and hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) have been detected in influent samples. Perchlorate was detected in mid-fluent samples collected after the first pair of Granular Activated Carbon (GAC) vessels. Perchlorate and RDX have not been detected in samples collected after the second pair of GAC vessels or in the effluent. The GAC media will be exchanged when breakthrough of perchlorate is detected after the second of the three pairs of GAC vessels. As of January 14, 2005, approximately 18 million gallons of water have been treated and re-injected at the Pew Road ETR System.

The Frank Perkins Road ETR continues operation at a flow rate of 220 gpm. Perchlorate, RDX, and octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) have been detected in influent samples. Perchlorate was detected in mid-fluent samples collected after the first pair of GAC vessels in each of the three treatment containers. The GAC vessels are followed by ion exchange (IX) vessels, which are designed for treatment of perchlorate. Perchlorate and RDX have not been detected in mid-fluent samples collected after the IX vessels or in effluent samples. As of January 14, 2005, approximately 34 million gallons of water had been treated and re-injected at the Frank Perkins Road ETR System.

Demo Area 1 Soil RRA

The Demo Area 1 Soil RRA consists of the removal of all geophysical anomalies within the perimeter road (7.4 acres) and the removal and thermal treatment of contaminated soil from in and around the Demo 1 kettle hole.

Commenced excavation of EM-61 anomalies in Grids C-6, D-5 and D-6. As of January 14, 2005 the total amount of soil excavated at Demo Area 1 is 16,641 cubic yards, with an additional 150 cubic yards excavated at Demo Area 1 burn pits.

Impact Area Soil RRA

The Impact Area Soil RRA consists of the removal and treatment of contaminated soil and targets at Targets 23 and 42. Remaining target areas will be addressed in a supplemental plan. Soil will be removed from Targets 23 and 42, in area of approximately 15,700 square feet, to a depth of approximately 2 feet, for a total volume of removed soil of approximately 1,160 cubic yards of soil.

To date, 590 cubic yards have been removed from Target 23 and 796 cubic yards have been removed from Target 42 and transferred to the Demo Area 1 staging area for treatment in the Thermal Treatment Unit .

J-2 Range Soil RRA

The J-2 Range Soil RRA consists of the removal and treatment of soil in six general areas within the J-2 Range that contain selected explosives and perchlorate. Soil will be removed from the Twin Berms Area, Berm 2, Berm 5, Fixed Firing Points 3 and 4 (FFP-3 and 4) and adjacent Range Road Burn Area (RRBA), Disposal Area 1, and Disposal Area 2. Based on modifications made during finalization of the RRA Workplan, the proposed removal and treatment scope increased to a total removal approximated at 93,835 square feet and 5,361 cubic yards to a maximum depth of 2.5 feet. Soil will be treated in the Thermal Treatment Unit.

Conducted UXO subsurface clearance at Berm 5, at Polygon 2, and the target control pits at the Twin Berms. A total of 6,236 cubic yards of soil has been excavated and transported to Demo Area 1 staging area for treatment in the Thermal Treatment Unit.

**2. SUMMARY OF ACTIONS TAKEN**

Drilling progress as of January 14, 2005 is summarized in Table 1.

<b>Boring Number</b>	<b>Purpose of Boring/Well</b>	<b>Total Depth (ft bgs)</b>	<b>Depth to Water Table (ft bgs)</b>	<b>Completed Well Screens (ft bgs)</b>
MW-356	J-3 Range (J3P-44)	296	103	
MW-360	J-1 Range (J1P-20)	311	97	102-112; 247-257
MW-362	J-2 Range (J2P-49)	326	94	170-180; 229-239
BH-363	Northwest Corner (NWP-21a)	246	85	
MW-364	J-3 Range (J3P-42)	309	109	147-157; 297-307
MW-365	J-2 Range (J2P-52)	290	91	
bgs = below ground surface				

Completed well installation at MW-360 (J1P-20), MW-362 (J2P-49) and MW-364 (J3P-42). Completed drilling at BH-363 (NWP-21a). Well screens will not be installed at BH-363. Commenced drilling at MW-365 (J2P-52). Well development continued for recently installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-363 and MW-365. Groundwater samples were collected from Bourne water supply and monitoring wells, recently installed wells, December 2004 Site-Wide Perchlorate wells, and as part of the December round of the 2004 LTGM. Process water samples were collected from the Pew Road and Frank Perkins Road ETR systems. Post-BIP

samples were collected from the Former K Range. Soil samples were collected from the first (one foot) lift at trenches in the Former A Range and from the Engineering Training Site located downgradient of Demo Area 2.

The following are the notes from the January 13, 2005 Technical Team meeting of the Impact Area Groundwater Study Program office at Camp Edwards:

### **Punchlist Items**

There were no Punchlist items from the 12/9/04 Technical Team meeting.

### **BA-1 Update**

Paul Nixon (IAGWSP) discussed the status of investigations at the BA-1 Training Area. Pictures of the previous (c. 2001-2002) investigation area were projected. Electronic components of radar systems were uncovered and placed in piles, which were covered with plastic. A draft workplan was developed to define the extent of bromoform contamination in soil. Hap Gonser (IAGWSP - not present at this time) wanted to discuss whether work should continue under the IAGWSP vs. under the IRP. The discussion was postponed until about noon or when Mr. Gonser would arrive.

A general discussion of work scheduling ensued. Mark Panni (MADEP) requested a list of sites that had been ranked as a lower priority, similar to BA-1, but would still require the team's attention. Lynn Jennings (EPA) indicated that EPA was preparing a letter to the Army asking that the Revised Combined Schedule (RCS) be updated consistent with the program budget. EPA will provide this letter within a few days, and will request that the updated RCS be provided by the end of January. Gina Kaso (USACE) and Ms. Jennings discussed the evolution of the RCS and how it is impacted by the comment/response process for documents.

### **CIA RRA Data Analysis Update**

Bill Gallagher (IAGWSP) discussed the status of data analysis for the Central Impact Area Soil Rapid Response Action (RRA). Maps were projected and handed out showing mass densities of RDX in soil derived by the groundwater model under various scenarios. The intent of this mapping is to identify possible source areas for soil RRAs. Chris Abate (AMEC) described the groundwater modeling approach and how plumes are tracked back to their sources. Mark Panni (MADEP) and Mr. Gallagher discussed how direct measurements of RDX in soil compare to the modeled densities, and which data should be used in defining source areas. Lynn Jennings (USEPA) and Mr. Gallagher discussed the accuracy of the mass density polygons mapped by the model, compared to prior discussions of excavating "swaths" of soil along Turpentine Road and Tank Alley. Mr. Gallagher and Mr. Abate indicated that the model results suggest the peak RDX loading was present in soil about 15 years ago and has declined since that time, to the point where some areas along the roadways may no longer be significant sources of groundwater contamination. Ms. Jennings expressed concern with UXO presenting a future source based on corrosion of shell casings, which is not being considered by the groundwater modeling. She requested that magnetometry data for this area be considered so that the UXO loading is also evaluated in defining an RRA location. Mr. Gallagher and Ms. Jennings discussed how UXO should be considered in an RRA compared to an FS for a Comprehensive Remedy. Ms. Jennings requested the Army estimate the cost of UXO detection and removal in the roadway swaths as part of the RRA evaluations.

Mr. Gallagher handed out and projected a map of RDX detections near the water table. These detection areas, based on direct measurements, overlap with the model-derived suspected source areas. Mr. Gallagher and Mr. Abate discussed a series of four groundwater modeling scenarios that were now underway. These scenarios would show expected impacts on future

groundwater quality due to removal of various suspected source areas. The suspected sources were defined based on both the current water table detections and the model-derived soil mass densities. Desiree Moyer (EPA) and Mr. Gallagher discussed the specifics of the four alternatives, two of which are based on the water table data and two of which are based on the model-derived suspected source areas. Mr. Gallagher will provide additional clarification of the four alternatives in an email early the week of January 17. Mr. Gallagher and Ms. Jennings discussed the scoping process for this modeling, how the regulatory agencies were notified, and how much work has been completed to date. Results for the four alternatives will be presented at the January 27 technical meeting.

### **J-2 Range North Groundwater RRA Well Field Design Presentation**

Dave Hill (IAGWSP) introduced Mike Goydas (Jacobs Engineering) and briefly indicated that this presentation would describe the Army's proposed RRA for the J-2 Range north groundwater contamination. Mr. Goydas presented the slides and animations, copies of which were provided to the regulatory agencies on a compact disk. The presentation showed the extents of the RDX and perchlorate plumes, how these would be affected by various groundwater extraction and infiltration (or reinjection) systems, sensitivity test results, and the Army's recommended design. During the presentation, Jane Dolan (EPA) requested a tabular summary of model run scenarios. The recommended design includes two axial extraction wells pumping at a combined rate of 175 gpm, located in a line progressively downgradient of the source area at the end of the J-2 Range. This extraction system results in ~96% mass removal of RDX, and ~85% mass removal of perchlorate in the aquifer. The system is not expected to affect flow of adjacent plumes, and would prevent RDX from reaching the downgradient water supply well at detectable concentrations. Perchlorate would be expected to reach the supply well at concentrations of 1-5 ppb in the aquifer, unless a third extraction well was installed downgradient from the two proposed extraction wells. The Army does not propose a third extraction well at this time based on the status of perchlorate regulations and the objectives of the RRA. Treated water would be reintroduced to the aquifer via infiltration trenches. Remediation of a deeper, slow-moving pocket of RDX and perchlorate contamination that is not expected to impact the supply well was judged infeasible for the RRA.

Mr. Hill asked whether the recommended design should be inserted into the Project Note for regulatory approval. Lynn Jennings (EPA) indicated that the regulatory agencies would need some time to review this approach, and would need a complete and updated RI/FS schedule for this area prior to approval of the RRA. One EPA concern is whether more source area characterization is needed. In response to a question from Ms. Jennings, Hap Gonser (IAGWSP) reiterated that the Army cannot recommend a third downgradient extraction well for the sole purpose of containing low levels of perchlorate contamination as part of the RRA. The Army has discussed this issue with the Upper Cape Regional Water Supply Cooperative.

### **J-2 Range East Groundwater Investigation Update**

Dave Hill (IAGWSP) and Jay Ehret (USACE) discussed the status of the off-post well locations to further evaluate the J-2 Range east groundwater plume. Well installation at the Route 130 location (J2P-49) is complete with no explosives detects. Drilling is underway at the J-2 East Wood Road swath (J2P-E11) location to a depth of ~150 feet below ground surface. The next location after this would be J2P-E10 between the east and north groundwater plumes. Based on drilling progress and the resident's desire to relocate landscaping, the sonic drill rig would likely stay with AFCEE for another well, such that J2P-E7 drilling would start in early-to-mid February.

Len Pinaud (MADEP) asked about the Army's plans to drill J2P-E6 or -E6b. Mr. Hill replied that these locations were no longer planned since they were contingent on other results that were non-detect. Mr. Pinaud and Mr. Hill discussed the results of drilling in the area upgradient of

Peters Pond Road, and whether it was possible that the residential detection of perchlorate had originated on Post. Mike Goydas (Jacobs Engineering) and Mr. Pinaud discussed how the J2P-E7 location would provide critical data between MW-355 and MW-362. There was further discussion of the expected residential well depth. Jane Dolan (EPA) requested information on well depths in the Peters Pond area. Ms. Dolan and Mr. Pinaud suggested the Army consider using drive points to collect groundwater data near Peters Pond, Route 130, and Quaker Meetinghouse Road.

Ms. Dolan and Mr. Hill discussed triggers for additional drilling. In response to a question from Ms. Dolan, Mr. Goydas indicated that identification of suspected source areas by groundwater modeling (similar to the CIA as discussed earlier) has been completed, and Mr. Hill indicated he will provide these results. Ms. Dolan indicated that the EPA would like to collect split samples from the next round of Peters Pond residential samples. Mr. Hill indicated that the extent of additional investigations near Peters Pond would depend on results of the next two borings in this area, including J2P-E7.

### **Soil RRA Status**

Paul Nixon (IAGWSP) provided an update on the excavation status for Demo 1 (nearly complete) and Demo 2 (complete). Darrin Smith (USACE) and Dave Hill (IAGWSP) indicated that excavation is continuing in a few areas of the J-2 RRA, and some sampling results are still pending. An additional 1-ft lift will be excavated in the J-3 burn pit based on an RDX post-excavation sample of 250 ppb. Mr. Nixon indicated that GP-6 soils have been treated, and post-excavation results for this area are pending. Bill Gallagher (IAGWSP) indicated that Target 23 excavation was complete, while Target 42 had some remaining detections. Mr. Nixon indicated that the Thermal Treatment Unit completed operations last week and is now being decontaminated, with waste materials to be characterized for disposal.

### **Other Updates**

Paul Nixon (IAGWSP) discussed the Demo 1 Groundwater RRA Treatment System lead-vessel breakthrough results. Perchlorate has broken through the lead GAC vessel, with influent and effluent concentrations similar. In response to a question from Jane Dolan (EPA), Mr. Nixon indicated that the number of bed volumes at breakthrough was consistent with findings of the Innovative Technology Evaluation study. Ms. Dolan requested an email with the calculated number of bed volumes at breakthrough.

Mr. Nixon provided information on decon pad sump sample results. Samples were collected for decon pad water and sediment from the Contractor Storage Area (CSA) decon pad and the Impact Area decon pad. Water samples contained perchlorate at concentrations of 3100-3500 ppb, and sediment samples had a flash point <140F (the RCRA hazardous characteristic criteria for ignitability). Twenty-nine drums of sediment will be disposed offsite. Mr. Nixon provided copies of the waste profile.

Ms. Dolan asked for an update on the status of the J-3 Range Groundwater RRA. Dave Hill (IAGWSP) indicated that the Army is awaiting approval to spend funds. Lynn Jennings (EPA) indicated that EPA would set a deadline for action by the Army. Mr. Hill, Ms. Dolan, and Paul Hunt (ECC) discussed shifting the in-plume extraction well due to issues associated with buried utilities, impacts on natural resources, and the existing access road for MW-343. Mr. Hill will provide a technical justification for the change within a few days, for inclusion in the Project Note.

### 3. SUMMARY OF DATA RECEIVED

Table 3 summarizes the detections that exceeded an EPA Maximum Contaminant Level (MCL) or Health Advisory (HA) for drinking water for explosives, or exceeded a 4 ppb concentration for perchlorate received for the reporting period of December 23, 2004 through January 14, 2005.

Table 4 summarizes first time validated detections of explosives below the MCL/HA for drinking water or of perchlorate below a 4 ppb concentration received from December 23, 2004 through January 14, 2005.

First time validated detections of explosives and perchlorate in groundwater compared to the MCL/HAs are summarized below:

#### Explosives in Groundwater Compared to MCL/HAs

For validated data received from December 23, 2004 through January 14, 2005, two wells, MW-38M4 (Impact Area) and MW-343M2 (J-3 Range) had first time validated detections of RDX above the HA of 2 ppb. Five wells, MW-346M2 & M4 (J-1 Range), MW-302M2, MW-351M2 (J-2 Range), and MW-343M3 (J-3 Range) had first time validated detections of RDX below the HA of 2 ppb. One well, MW-343M2 (J-3 Range) had a first time validated detection of HMX below the HA of 400 ppb. One well, MW-347M2 (J-3 Range) had a first time validated detection of 4-amino-2,6-dinitrotoluene (4A-DNT). An MCL/HA has not been established for 4A-DNT.

#### Perchlorate in Groundwater Compared to MCL/HAs

For validated data received from December 23, 2004 through January 14, 2005, no wells had first time validated detections of perchlorate above the concentration of 4 ppb. Six wells, MW-346M1, M2 & M4, MW-349M2 (J-1 Range), and MW-343M1 & M2 (J-3 Range) had first time validated detections of perchlorate below the concentration of 4 ppb.

Rush data are summarized in Table 5. These data are for analyses that are performed on a fast turn around time, typically 1-10 days. Perchlorate and explosive analyses for monitoring wells, and perchlorate, explosive and volatile organic compound (VOC) analyses for groundwater profile samples, are conducted in this timeframe, as well as any analyses pursuant to a special request. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 5 summarizes only detects, and does not show samples with non-detects.

The status of the explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 5. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is "YES" in Table 5, the detected compound is verified as properly identified. Where the status is "NO", the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC or perchlorate. Most explosive detections verified by PDA are confirmed to be present upon completion of validation.

Table 5 includes detections from the following areas:

#### J-2 Range

- A groundwater sample from RS003P had a detection of perchlorate. The result was similar to previous sampling rounds.

#### Demo Area 1

- Process water samples collected from the Frank Perkins Road ETR system influent (FPR-INF) and mid-fluent (FPR-MID-1) had detections of perchlorate. Process water samples collected from the influent (FPR-INF) also had detections of RDX and HMX, which were confirmed by PDA spectra.
- Process water samples collected from the Pew Road ETR system influent (PR-INF) and mid-fluent (PR-MID-1) had detections of perchlorate. Process water samples collected from the influent (PR-INF) also had detections of RDX, which were confirmed by PDA spectra.

#### Northwest Corner

- Profile samples from BH-363 (NWP-21a) had detections of explosives and perchlorate, listed in Table 5 as MW-363. Of the explosives detections, RDX was confirmed by PDA spectra in four intervals between 26 and 56 ft below water table (bwt) and in four intervals between 106 and 146 ft bwt. HMX was confirmed by PDA spectra in two intervals at 126 and 136 ft bwt. Perchlorate was detected in three intervals between 106 and 156 ft bwt. Well screens will not be set at BH-363; the borehole was drilled for profile data only.

### **4. DELIVERABLES SUBMITTED**

Monthly Progress Report # 93 for December 2004

01/07/2005

### **5. SCHEDULED ACTIONS**

Scheduled actions through the end of January include complete drilling at MW-365 (J2P-52) and commence drilling at proposed location J2P-51. Groundwater sampling of Bourne water supply and monitoring wells, recently installed wells, and as part of the December round of the 2004 LTGM Program will continue. Groundwater sampling as part of the January Quarterly round of the 2005 LTGM Program will be conducted. UXO clearance and soil sampling at the Former A Range trenches will continue. Anomaly removal at Demo Area 1 and UXO subsurface clearance at the J-2 Range will continue. UXO subsurface clearance and excavation at J-3 Range sites and UXO subsurface clearance at the base of Targets 23 and 42 in the Impact Area will commence.

**TABLE 2  
SAMPLING PROGRESS  
INTERIM MONTHLY 01/01/2005 - 01/14/2005**

SAMPLE_ID	GIS_LOCID	AOC	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
HDA12080401AA	A12080401		01/13/2005	CRATER GRID	0	0.25		
HDA12150401AA	A12150401		01/13/2005	CRATER GRID	0	0.25		
4036000-01G-A	4036000-01G	WESTERN BOU	01/03/2005	GROUNDWATER	38	69.8	6	12
4036000-01G-A	4036000-01G	WESTERN BOU	01/10/2005	GROUNDWATER	38	69.8	6	12
4036000-04G-A	4036000-04G	WESTERN BOU	01/03/2005	GROUNDWATER	54.6	64.6	6	12
4036000-04G-A	4036000-04G	WESTERN BOU	01/10/2005	GROUNDWATER	54.6	64.6	6	12
4036000-06G-A	4036000-06G	WESTERN BOU	01/03/2005	GROUNDWATER	108	128	6	12
4036000-06G-A	4036000-06G	WESTERN BOU	01/10/2005	GROUNDWATER	108	128	6	12
90PZ0201-A	90PZ0201	J-3 RANGE	01/13/2005	GROUNDWATER	78.2	107.1	65.3	94.2
90PZ0204-A	90PZ0204	J-3 RANGE	01/13/2005	GROUNDWATER	80	85	72.1	77.1
90PZ0208-A	90PZ0208	J-3 RANGE	01/13/2005	GROUNDWATER	90	95	72.8	77.8
90PZ0211A-A	90PZ0211	J-3 RANGE	01/13/2005	GROUNDWATER	83	83	76.85	76.85
90PZ0211B-A	90PZ0211	J-3 RANGE	01/13/2005	GROUNDWATER	93	93	86.85	86.85
90PZ0211C-A	90PZ0211	J-3 RANGE	01/13/2005	GROUNDWATER	103	103	96.85	96.85
97-2C-A	97-2C	WESTERN BOU	01/03/2005	GROUNDWATER	132	132	68	68
97-2D-A	97-2D	WESTERN BOU	01/04/2005	GROUNDWATER	115.4	115.4	82.9	82.9
97-2F-A	97-2F	WESTERN BOU	01/04/2005	GROUNDWATER	120	120	76.7	76.7
MW-325M1-	MW-325	L RANGE	01/13/2005	GROUNDWATER	172.42	182.42	94.42	104.42
MW-342M1-	MW-342	J-2 RANGE	01/13/2005	GROUNDWATER	194	204	112.5	122.5
MW-342M1-FD	MW-342	J-2 RANGE	01/13/2005	GROUNDWATER	194	204	112.5	122.5
MW-342M2-	MW-342	J-2 RANGE	01/13/2005	GROUNDWATER	164	174	82.5	92.5
MW-342S-	MW-342	J-2 RANGE	01/13/2005	GROUNDWATER	86.5	96.5	5	15
SDW263111-A	SDW263111	OTHER	01/05/2005	GROUNDWATER	99	109	0	10
SMR-3-A	SMR-3	OTHER	01/05/2005	GROUNDWATER	103	113	7	17
TW01-1-A	01-1	WESTERN BOU	01/03/2005	GROUNDWATER	62	67	55.21	60.21
TW1-88A-A	1-88	WESTERN BOU	01/03/2005	GROUNDWATER	102.9	102.9	67.4	67.4
W02-03M1A	02-03	WESTERN BOU	01/12/2005	GROUNDWATER	130	140	86.1	96.1
W02-03M2A	02-03	WESTERN BOU	01/12/2005	GROUNDWATER	92	102	48.15	58.15
W02-03M3A	02-03	WESTERN BOU	01/13/2005	GROUNDWATER	75	85	31.05	41.05
W02-04M1A	02-04	WESTERN BOU	01/12/2005	GROUNDWATER	123	133	73.97	83.97
W02-04M2A	02-04	WESTERN BOU	01/12/2005	GROUNDWATER	98	108	48.93	58.93
W02-04M3A	02-04	WESTERN BOU	01/12/2005	GROUNDWATER	83	93	34.01	44.01
W02-05M1A	02-05	WESTERN BOU	01/14/2005	GROUNDWATER	110	120	81.44	91.44
W02-05M2A	02-05	WESTERN BOU	01/14/2005	GROUNDWATER	92	102	63.41	73.41
W02-05M3A	02-05	WESTERN BOU	01/14/2005	GROUNDWATER	70	80	41.37	51.37
W02-05M3D	02-05	WESTERN BOU	01/14/2005	GROUNDWATER	70	80	41.37	51.37
W02-09SSA	02-09	WESTERN BOU	01/03/2005	GROUNDWATER	7	17	0	10
W100M1A	MW-100	CIA	01/11/2005	GROUNDWATER	179	189	45	55
W100M1A-QA	MW-100	CIA	01/11/2005	GROUNDWATER	179	189	45	55

**Profiling methods may include: Volatiles, Explosives, and Perchlorate**  
**Groundwater methods include: Volatiles, Semivolatiles, Explosives,**  
**Pesticides, Herbicides, Metals, Perchlorate and Wet Chemistry**  
**Other Sample Types methods are variable**

**SBD = Sample Begin Depth, measured in feet bgs**

**SED = Sample End Depth, measured in feet bgs**

**BWTS = Depth below water table, start depth, measured in feet**

**BWTE = Depth below water table, end depth, measured in feet**

**AOC = Area of Concern**

**CIA = Central Impact Area**



**TABLE 2  
SAMPLING PROGRESS  
INTERIM MONTHLY 01/01/2005 - 01/14/2005**

SAMPLE_ID	GIS_LOCID	AOC	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W100M1A-QA	MW-100	CIA	01/12/2005	GROUNDWATER	179	189	45	55
W100M2A	MW-100	CIA	01/11/2005	GROUNDWATER	164	174	30	40
W136SSA	MW-136	J-1 RANGE	01/10/2005	GROUNDWATER	107	117	0	10
W143M1A	MW-143	J-3 RANGE	01/12/2005	GROUNDWATER	144	154	114	124
W143M1A-QA	MW-143	J-3 RANGE	01/12/2005	GROUNDWATER	144	154	114	124
W143M2A	MW-143	J-3 RANGE	01/06/2005	GROUNDWATER	117	122	87	92
W143M2A-QA	MW-143	J-3 RANGE	01/06/2005	GROUNDWATER	117	122	87	92
W143M3A	MW-143	J-3 RANGE	01/11/2005	GROUNDWATER	107	112	77	82
W143M3A-QA	MW-143	J-3 RANGE	01/11/2005	GROUNDWATER	107	112	77	82
W156SSA	MW-156	PHASE 2b	01/12/2005	GROUNDWATER	77	87	7	17
W164M2A	MW-164	J-1 RANGE	01/07/2005	GROUNDWATER	157	167	49	59
W164M3A	MW-164	J-1 RANGE	01/07/2005	GROUNDWATER	117	127	9	19
W166M1A	MW-166	J-1 RANGE	01/05/2005	GROUNDWATER	218	223	112	117
W166M2A	MW-166	J-1 RANGE	01/07/2005	GROUNDWATER	150	160	44	54
W182M2A	MW-182	CIA	01/05/2005	GROUNDWATER	273	283	102.89	112.89
W220DDA	MW-220	J-1 RANGE	01/10/2005	GROUNDWATER	299	309	171.83	181.83
W220M1A	MW-220	J-1 RANGE	01/10/2005	GROUNDWATER	248	258	120.85	130.85
W23M1A	MW-23	CIA	01/04/2005	GROUNDWATER	225	235	103	113
W276M1A	MW-276	WESTERN BOU	01/10/2005	GROUNDWATER	295	305	114	124
W276M2A	MW-276	WESTERN BOU	01/10/2005	GROUNDWATER	234	244	52.88	62.88
W276M3A	MW-276	WESTERN BOU	01/10/2005	GROUNDWATER	185	195	0	10
W286M1A	MW-286	J-1 RANGE	01/14/2005	GROUNDWATER	259	269	135.61	145.61
W286M2A	MW-286	J-1 RANGE	01/14/2005	GROUNDWATER	205	215	81.42	91.42
W286SSA	MW-286	J-1 RANGE	01/14/2005	GROUNDWATER	122	132	0	10
W45M2A	MW-45	L RANGE	01/06/2005	GROUNDWATER	110	120	18	28
W45SSA	MW-45	L RANGE	01/06/2005	GROUNDWATER	89	99	0	10
W45SSX	MW-45	L RANGE	01/06/2005	GROUNDWATER	89	99	0	10
W47DDA	MW-47	WESTERN BOU	01/12/2005	GROUNDWATER	194	204	100	110
W50DDA	MW-50	CIA	01/05/2005	GROUNDWATER	237	247	119	129
W50M1A	MW-50	CIA	01/05/2005	GROUNDWATER	207	217	89	99
W50M2A	MW-50	CIA	01/05/2005	GROUNDWATER	177	187	59	69
W51M1A	MW-51	CIA	12/30/2004	GROUNDWATER	234	244	88	98
W51M2A	MW-51	CIA	12/30/2004	GROUNDWATER	203	213	58	68
W51M2D	MW-51	CIA	12/30/2004	GROUNDWATER	203	213	58	68
W83DDA	MW-83	WESTERN BOU	01/10/2005	GROUNDWATER	142	152	109	119
W83M1A	MW-83	WESTERN BOU	01/10/2005	GROUNDWATER	110	120	77	87
W83M2A	MW-83	WESTERN BOU	01/10/2005	GROUNDWATER	85	95	52	62
W83M3A	MW-83	WESTERN BOU	01/10/2005	GROUNDWATER	60	70	27	37
W83SSA	MW-83	WESTERN BOU	01/10/2005	GROUNDWATER	33	43	0	10

**Profiling methods may include: Volatiles, Explosives, and Perchlorate**

**Groundwater methods include: Volatiles, Semivolatiles, Explosives,**

**Pesticides, Herbicides, Metals, Perchlorate and Wet Chemistry**

**Other Sample Types methods are variable**

**SBD = Sample Begin Depth, measured in feet bgs**

**SED = Sample End Depth, measured in feet bgs**

**BWTS = Depth below water table, start depth, measured in feet**

**BWTE = Depth below water table, end depth, measured in feet**

**AOC = Area of Concern**

**CIA = Central Impact Area**

**TABLE 2  
SAMPLING PROGRESS  
INTERIM MONTHLY 01/01/2005 - 01/14/2005**

SAMPLE_ID	GIS_LOCID	AOC	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W87M1A	MW-87	CIA	01/07/2005	GROUNDWATER	194	204	62	72
W87M2A	MW-87	CIA	01/07/2005	GROUNDWATER	169	179	37	47
W88M1A	MW-88	CIA	12/29/2004	GROUNDWATER	233	243	92	102
W88M2A	MW-88	CIA	12/29/2004	GROUNDWATER	213	223	72	82
W88M2D	MW-88	CIA	12/29/2004	GROUNDWATER	213	223	72	82
W95M1A	MW-95	CIA	12/30/2004	GROUNDWATER	202	212	78	88
W95M2A	MW-95	CIA	12/30/2004	GROUNDWATER	167	177	43	53
W96M1A	MW-96	CIA	01/07/2005	GROUNDWATER	206	216	70	80
W96M2A	MW-96	CIA	01/10/2005	GROUNDWATER	160	170	24	34
W97M2A	MW-97	CIA	12/29/2004	GROUNDWATER	185	195	62	72
FPR-EFF-18A	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-18D	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-A-18A	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-A-18B	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-A-18D	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-B-18A	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-B-18B	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-B-18D	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-C-18A	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-C-18B	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-EFF-C-18D	FPR-EFF		01/04/2005	PROCESS WATER	0	0		
FPR-INF-18A	FPR-INF		01/04/2005	PROCESS WATER	0	0		
FPR-INF-A-18AA	FPR-INF		01/12/2005	PROCESS WATER	0	0		
FPR-INF-A-18B	FPR-INF		01/04/2005	PROCESS WATER	0	0		
FPR-INF-B-18B	FPR-INF		01/04/2005	PROCESS WATER	0	0		
FPR-INF-C-18B	FPR-INF		01/04/2005	PROCESS WATER	0	0		
FPR-MID-1A-18A	FPR-MID-1		01/04/2005	PROCESS WATER	0	0		
FPR-MID-1A-18AA	FPR-MID-1		01/12/2005	PROCESS WATER	0	0		
FPR-MID-1B-18A	FPR-MID-1		01/04/2005	PROCESS WATER	0	0		
FPR-MID-1C-18A	FPR-MID-1		01/04/2005	PROCESS WATER	0	0		
FPR-MID-2A-18A	FPR-MID-2		01/04/2005	PROCESS WATER	0	0		
FPR-MID-2B-18A	FPR-MID-2		01/04/2005	PROCESS WATER	0	0		
FPR-MID-2C-18A	FPR-MID-2		01/04/2005	PROCESS WATER	0	0		
PR-EFF-20A	PR-EFF		01/06/2005	PROCESS WATER	0	0		
PR-EFF-20D	PR-EFF		01/06/2005	PROCESS WATER	0	0		
PR-INF-20A	PR-INF		01/06/2005	PROCESS WATER	0	0		
PR-INF-20AA	PR-INF		01/12/2005	PROCESS WATER	0	0		
PR-INF-20D	PR-INF		01/06/2005	PROCESS WATER	0	0		
PR-MID-1-20A	PR-MID-1		01/06/2005	PROCESS WATER	0	0		

**Profiling methods may include: Volatiles, Explosives, and Perchlorate**

**Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, Perchlorate and Wet Chemistry**

**Other Sample Types methods are variable**

**SBD = Sample Begin Depth, measured in feet bgs**

**SED = Sample End Depth, measured in feet bgs**

**BWTS = Depth below water table, start depth, measured in feet**

**BWTE = Depth below water table, end depth, measured in feet**

**AOC = Area of Concern**

**CIA = Central Impact Area**

**TABLE 2  
SAMPLING PROGRESS  
INTERIM MONTHLY 01/01/2005 - 01/14/2005**

SAMPLE_ID	GIS_LOCID	AOC	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
PR-MID-1-20AA	PR-MID-1		01/12/2005	PROCESS WATER	0	0		
PR-MID-1-20D	PR-MID-1		01/06/2005	PROCESS WATER	0	0		
PR-MID-2-20A	PR-MID-2		01/06/2005	PROCESS WATER	0	0		
PR-MID-2-20D	PR-MID-2		01/06/2005	PROCESS WATER	0	0		
G363DGA	MW-363		01/03/2005	PROFILE	150	150	65.5	65.5
G363DHA	MW-363		01/03/2005	PROFILE	160	160	75.5	75.5
G363DIA	MW-363		01/03/2005	PROFILE	170	170	85.5	85.5
G363DJA	MW-363		01/04/2005	PROFILE	180	180	95.5	95.5
G363DJD	MW-363		01/04/2005	PROFILE	180	180	95.5	95.5
G363DKA	MW-363		01/04/2005	PROFILE	190	190	105.5	105.5
G363DLA	MW-363		01/04/2005	PROFILE	200	200	115.5	115.5
G363DMA	MW-363		01/04/2005	PROFILE	210	210	125.5	125.5
G363DNA	MW-363		01/04/2005	PROFILE	220	220	135.5	135.5
G363DOA	MW-363		01/04/2005	PROFILE	230	230	145.5	145.5
G363DPA	MW-363		01/04/2005	PROFILE	240	240	155.5	155.5
MW-365-01	MW-365		01/12/2005	PROFILE	100	100	9.7	9.7
MW-365-02	MW-365		01/12/2005	PROFILE	110	110	19.7	19.7
MW-365-03	MW-365		01/12/2005	PROFILE	120	120	29.7	29.7
MW-365-03FD	MW-365		01/12/2005	PROFILE	120	120	29.7	29.7
MW-365-04	MW-365		01/12/2005	PROFILE	130	130	39.7	39.7
MW-365-05	MW-365		01/12/2005	PROFILE	140	140	49.7	49.7
MW-365-06	MW-365		01/12/2005	PROFILE	150	150	59.7	59.7
MW-365-07	MW-365		01/12/2005	PROFILE	160	160	69.7	69.7
MW-365-08	MW-365		01/12/2005	PROFILE	170	170	79.7	79.7
MW-365-09	MW-365		01/13/2005	PROFILE	180	180	89.7	89.7
MW-365-10	MW-365		01/13/2005	PROFILE	190	190	99.7	99.7
MW-365-11	MW-365		01/13/2005	PROFILE	200	200	109.7	109.7
MW-365-12	MW-365		01/13/2005	PROFILE	210	210	119.7	119.7
MW-365-13	MW-365		01/13/2005	PROFILE	220	220	129.7	129.7
MW-365-13FD	MW-365		01/13/2005	PROFILE	220	220	129.7	129.7
MW-365-14	MW-365		01/13/2005	PROFILE	230	230	139.7	139.7
MW-365-15	MW-365		01/13/2005	PROFILE	240	240	149.7	149.7
MW-365-16	MW-365		01/13/2005	PROFILE	250	250	159.7	159.7
MW-365-17	MW-365		01/14/2005	PROFILE	260	260	169.7	169.7
MW-365-18	MW-365		01/14/2005	PROFILE	270	270	179.7	179.7
MW-365-19	MW-365		01/14/2005	PROFILE	280	280	189.7	189.7
MW-365-19	MW-365		01/14/2005	PROFILE	280	280	189.7	189.7
HD0110050104W1AA	AM01100501		01/12/2005	SOIL GRAB	0	0.25		
HD0110050223W1AA	AM01100502		01/12/2005	SOIL GRAB	0	0.25		

**Profiling methods may include: Volatiles, Explosives, and Perchlorate**

**Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, Perchlorate and Wet Chemistry**

**Other Sample Types methods are variable**

**SBD = Sample Begin Depth, measured in feet bgs**

**SED = Sample End Depth, measured in feet bgs**

**BWTS = Depth below water table, start depth, measured in feet**

**BWTE = Depth below water table, end depth, measured in feet**

**AOC = Area of Concern**

**CIA = Central Impact Area**

**TABLE 2  
SAMPLING PROGRESS  
INTERIM MONTHLY 01/01/2005 - 01/14/2005**

SAMPLE_ID	GIS_LOCID	AOC	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
HD0110050313X1AA	AM01100503		01/12/2005	SOIL GRAB	0	0.25		
HD0110050404Y1AA	AM01100504		01/12/2005	SOIL GRAB	0	0.25		
HD0110050503Y1AA	AM1100505		01/12/2005	SOIL GRAB	0	0.25		
HD0110050503Y1AA	AM01100505		01/12/2005	SOIL GRAB	0	0.25		
HD0111050106X1AA	AM01110501		01/12/2005	SOIL GRAB	0	0.25		
HD0111050106X1AD	AM01110501		01/12/2005	SOIL GRAB	0	0.25		
HD0111050206Y1AA	AM01110502		01/12/2005	SOIL GRAB	0	0.25		
HD1213040136W1AA	AM12130401		01/12/2005	SOIL GRAB	0	0.25		
HD1213040207X1AA	AM12130402		01/12/2005	SOIL GRAB	0	0.25		
HC216A1AAA	216A		01/04/2005	SOIL GRID	0	0.25		
HC216A1AAD	216A		01/04/2005	SOIL GRID	0	0.25		
HC216A1BAA	216A		01/04/2005	SOIL GRID	0.25	0.5		
HC216A1CAA	216A		01/04/2005	SOIL GRID	0.5	1		
HD216B1AAA	216B		01/04/2005	SOIL GRID	0	0.25		
HD216B1BAA	216B		01/04/2005	SOIL GRID	0.25	0.5		
HD216B1CAA	216B		01/04/2005	SOIL GRID	0.5	1		
HD216C1AAA	216C		01/04/2005	SOIL GRID	0	0.25		
HD216C1BAA	216C		01/04/2005	SOIL GRID	0.25	0.5		
HD216C1CAA	216C		01/04/2005	SOIL GRID	0.5	1		

Profiling methods may include: Volatiles, Explosives, and Perchlorate  
 Groundwater methods include: Volatiles, Semivolatiles, Explosives,  
 Pesticides, Herbicides, Metals, Perchlorate and Wet Chemistry  
 Other Sample Types methods are variable

SBD = Sample Begin Depth, measured in feet bgs

SED = Sample End Depth, measured in feet bgs

BWTS = Depth below water table, start depth, measured in feet

BWTE = Depth below water table, end depth, measured in feet

AOC = Area of Concern

CIA = Central Impact Area

**TABLE 3  
VALIDATED DETECTS EXCEEDING MCLs OR  
HEALTH ADVISORY LIMITS  
INTERIM MONTHLY  
DATA RECEIVED 12/23/04-1/14/05**

WELL/LOCID	SAMPLE ID	SAMPLED	AOC	METHOD	ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
58MW0016	58MW0016C-A	11/05/2004	CS-19	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	3.4		UG/L	0	10	2	X
58MW0016	58MW0016C-D	11/05/2004	CS-19	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	3.5		UG/L	0	10	2	X
MW-234	W234M1A	10/19/2004	J-2 RANGE	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	2.2		UG/L	25.3	35.3	2	X
MW-235	W235M1A	10/18/2004	CIA	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	40		UG/L	25.3	35.3	2	X
MW-343	MW-343M2-	11/22/2004	J-3 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	19		UG/L	74	84	2	X
MW-343	MW-343M2-FD	11/22/2004	J-3 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	18		UG/L	74	84	2	X
MW-38	W38M4A	11/05/2004	CIA	8330NX	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	2.1	J	UG/L	14	24	2	X

---

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET  
 BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET  
 DW LIMIT = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)  
 >DW LIMIT = EQUALS OR EXCEEDS EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT, OR LIFETIME)  
 J = ESTIMATED DETECT

**TABLE 4  
VALIDATED DETECTS BELOW MCLs OR HEALTH ADVISORY  
LIMITS NOT PREVIOUSLY DETECTED  
INTERIM MONTHLY  
DATA RECEIVED 12/23/04-1/14/05**

WELL/LOCID	SAMPLE ID	SAMPLED	AOC	METHOD	ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	DW LIMIT	>DW LIMIT
MW-347M2	MW-347M2-	12/13/2004	J-3 RANGE	SW8330	4-AMINO-2,6-DINITROTOLUENE	0.29	J	UG/L	38.3	48.3		
MW-343M3	MW-343M3-	11/22/2004	J-3 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	0.25		UG/L	17	27	2	
MW-346M4	MW-346M4-	12/09/2004	J-1 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	0.31		UG/L	25	35	2	
MW-302M2	MW-302M2-	11/15/2004	J-2 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	0.28		UG/L	85	95	2	
MW-346M2	MW-346M2-	12/09/2004	J-1 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	0.3		UG/L	90	100	2	
MW-351M2	MW-351M2-	11/18/2004	J-2 RANGE	SW8330	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-T	1.9		UG/L	132.67	142.67	2	
MW-343M2	MW-343M2-	11/22/2004	J-3 RANGE	SW8330	OCTAHYDRO-1,3,5,7-TETRANITRO-1,	0.55		UG/L	74	84	400	
MW-343M2	MW-343M2-FD	11/22/2004	J-3 RANGE	SW8330	OCTAHYDRO-1,3,5,7-TETRANITRO-1,	0.54		UG/L	74	84	400	
MW-346M4	MW-346M4-	12/09/2004	J-1 RANGE	E314.0	PERCHLORATE	0.78	J	UG/L	25	35	4	
MW-343M2	MW-343M2-	11/22/2004	J-3 RANGE	E314.0	PERCHLORATE	1.2		UG/L	74	84	4	
MW-343M2	MW-343M2-FD	11/22/2004	J-3 RANGE	E314.0	PERCHLORATE	1.2		UG/L	74	84	4	
MW-349M2	MW-349M2-FD	12/09/2004	J-1 RANGE	E314.0	PERCHLORATE	0.48	J	UG/L	75.7	85.7	4	
MW-346M2	MW-346M2-	12/09/2004	J-1 RANGE	E314.0	PERCHLORATE	3		UG/L	90	100	4	
MW-343M1	MW-343M1-	11/22/2004	J-3 RANGE	E314.0	PERCHLORATE	2.9		UG/L	122	132	4	
MW-346M1	MW-346M1-	12/09/2004	J-1 RANGE	E314.0	PERCHLORATE	2.8		UG/L	130	140	4	

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

DW LIMIT = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)

>DW LIMIT = EQUALS OR EXCEEDS EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT, OR LIFETIME)

J = ESTIMATED DETECT

**TABLE 5  
DETECTED COMPOUNDS-UNVALIDATED  
INTERIM MONTHLY FOR 01/01/05 - 01/14/05**

SAMPLE ID	LOCID OR WELL	SAMPLED	SAMP TYPE	AOC	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
RS003P-A	RS003P	12/28/2004	GROUNDWATER	J-2 RANGE	90	90			E314.0	PERCHLORATE	
FPR-INF-18A	FPR-INF	01/04/2005	PROCESS WATER		0	0			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
FPR-INF-18A	FPR-INF	01/04/2005	PROCESS WATER		0	0			8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
FPR-INF-18A	FPR-INF	01/04/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
FPR-INF-A-17AA	FPR-INF	12/29/2004	PROCESS WATER		0	0			E314.0	PERCHLORATE	
FPR-MID-1A-17A	FPR-MID-1	12/29/2004	PROCESS WATER		0	0			E314.0	PERCHLORATE	
FPR-MID-1A-18A	FPR-MID-1	01/04/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
FPR-MID-1B-18A	FPR-MID-1	01/04/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
FPR-MID-1C-18A	FPR-MID-1	01/04/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-INF-19A	PR-INF	12/22/2004	PROCESS WATER		0	0			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
PR-INF-19A	PR-INF	12/22/2004	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-INF-19AA	PR-INF	12/29/2004	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-INF-20A	PR-INF	01/06/2005	PROCESS WATER		0	0			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
PR-INF-20A	PR-INF	01/06/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-INF-20D	PR-INF	01/06/2005	PROCESS WATER		0	0			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
PR-INF-20D	PR-INF	01/06/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-MID-1-19A	PR-MID-1	12/22/2004	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-MID-1-19AA	PR-MID-1	12/29/2004	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-MID-1-20A	PR-MID-1	01/06/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
PR-MID-1-20D	PR-MID-1	01/06/2005	PROCESS WATER		0	0			E314.0	PERCHLORATE	
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	2,4-DINITROTOLUENE	NO+
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	4-NITROTOLUENE	NO+
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	PICRIC ACID	NO
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	NITROGLYCERIN	NO
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO+
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	2-NITROTOLUENE	NO+
G363DAA	MW-363	12/22/2004	PROFILE		90	90	5.5	5.5	8330N	3-NITROTOLUENE	NO+

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES RECEIVED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BELOW GROUND SURFACE

SED = SAMPLE COLLECTION END DEPTH IN FEET BELOW GROUND SURFACE

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

PDA/YES = Photo Diode Array, Detect Confirmed

PDA/NO = Photo Diode Array, Detect Not Confirmed

AOC = Area of Concern

CIA = Central Impact Area

+ = Interference in sample

**TABLE 5  
DETECTED COMPOUNDS-UNVALIDATED  
INTERIM MONTHLY FOR 01/01/05 - 01/14/05**

SAMPLE ID	LOCID OR WELL	SAMPLED	SAMP TYPE	AOC	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
G363DBA	MW-363	12/22/2004	PROFILE		100	100	15.5	15.5	8330N	NITROGLYCERIN	NO
G363DCA	MW-363	12/22/2004	PROFILE		110	110	25.5	25.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DCD	MW-363	12/22/2004	PROFILE		110	110	25.5	25.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DCD	MW-363	12/22/2004	PROFILE		110	110	25.5	25.5	8330N	NITROGLYCERIN	NO
G363DDA	MW-363	12/22/2004	PROFILE		120	120	35.5	35.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DEA	MW-363	12/22/2004	PROFILE		130	130	45.5	45.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DEA	MW-363	12/22/2004	PROFILE		130	130	45.5	45.5	8330N	NITROGLYCERIN	NO
G363DFA	MW-363	12/22/2004	PROFILE		140	140	55.5	55.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DGA	MW-363	01/03/2005	PROFILE		150	150	65.5	65.5	8330N	NITROGLYCERIN	NO
G363DHA	MW-363	01/03/2005	PROFILE		160	160	75.5	75.5	8330N	NITROGLYCERIN	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	NITROGLYCERIN	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	4-NITROTOLUENE	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	2-NITROTOLUENE	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	PICRIC ACID	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	2,4-DINITROTOLUENE	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	2,6-DINITROTOLUENE	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	3-NITROTOLUENE	NO
G363DIA	MW-363	01/03/2005	PROFILE		170	170	85.5	85.5	8330N	2,4,6-TRINITROTOLUENE	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2,4-DINITROTOLUENE	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	NITROGLYCERIN	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2,6-DINITROTOLUENE	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	PICRIC ACID	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	3-NITROTOLUENE	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2-NITROTOLUENE	NO
G363DJA	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	4-NITROTOLUENE	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	NITROGLYCERIN	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2,4,6-TRINITROTOLUENE	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES RECEIVED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BELOW GROUND SURFACE

SED = SAMPLE COLLECTION END DEPTH IN FEET BELOW GROUND SURFACE

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

PDA/YES = Photo Diode Array, Detect Confirmed

PDA/NO = Photo Diode Array, Detect Not Confirmed

AOC = Area of Concern

CIA = Central Impact Area

+ = Interference in sample



**TABLE 5  
DETECTED COMPOUNDS-UNVALIDATED  
INTERIM MONTHLY FOR 01/01/05 - 01/14/05**

SAMPLE ID	LOCID OR WELL	SAMPLED	SAMP TYPE	AOC	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2,6-DINITROTOLUENE	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2,4-DINITROTOLUENE	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	PICRIC ACID	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	2-NITROTOLUENE	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	4-NITROTOLUENE	NO
G363DJD	MW-363	01/04/2005	PROFILE		180	180	95.5	95.5	8330N	3-NITROTOLUENE	NO
G363DKA	MW-363	01/04/2005	PROFILE		190	190	105.5	105.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DKA	MW-363	01/04/2005	PROFILE		190	190	105.5	105.5	E314.0	PERCHLORATE	
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	2,4,6-TRINITROTOLUENE	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	2,6-DINITROTOLUENE	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	2,4-DINITROTOLUENE	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	PICRIC ACID	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	2-NITROTOLUENE	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	4-NITROTOLUENE	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	NITROGLYCERIN	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G363DLA	MW-363	01/04/2005	PROFILE		200	200	115.5	115.5	8330N	3-NITROTOLUENE	NO
G363DMA	MW-363	01/04/2005	PROFILE		210	210	125.5	125.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DMA	MW-363	01/04/2005	PROFILE		210	210	125.5	125.5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
G363DNA	MW-363	01/04/2005	PROFILE		220	220	135.5	135.5	8330N	NITROGLYCERIN	NO
G363DNA	MW-363	01/04/2005	PROFILE		220	220	135.5	135.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DNA	MW-363	01/04/2005	PROFILE		220	220	135.5	135.5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TET	YES
G363DNA	MW-363	01/04/2005	PROFILE		220	220	135.5	135.5	E314.0	PERCHLORATE	
G363DOA	MW-363	01/04/2005	PROFILE		230	230	145.5	145.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
G363DOA	MW-363	01/04/2005	PROFILE		230	230	145.5	145.5	E314.0	PERCHLORATE	
G363DPA	MW-363	01/04/2005	PROFILE		240	240	155.5	155.5	8330N	NITROGLYCERIN	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES RECEIVED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BELOW GROUND SURFACE

SED = SAMPLE COLLECTION END DEPTH IN FEET BELOW GROUND SURFACE

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

PDA/YES = Photo Diode Array, Detect Confirmed

PDA/NO = Photo Diode Array, Detect Not Confirmed

AOC = Area of Concern

CIA = Central Impact Area

+ = Interference in sample