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# DRAFT FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

#### **ANNUAL REPORT FOR 2008**

# RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO

MARC Contract Number W912QR-04-D-0036 Delivery Order No. 0006

# **Prepared for:**

U.S. Army Corps of Engineers 600 Martin Luther King Jr. Place Louisville, Kentucky 40202

Prepared by:

Environmental Quality Management, Inc. 1800 Carillon Boulevard Cincinnati Ohio 45240

**December 12, 2008** 

# FWGWMP Annual Report (Draft) 2008 Distribution List

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OHARNG – RTLS/ENV	1	1
EQM	1	1

Ohio EPA – Ohio EPA Twinsburg Office

OHARNG – RTLS/ENV – Ohio Army National Guard Ravenna Training and Logistics Site/Environmental

RVAAP – Ravenna Army Ammunition Plant

USACE – U.S. Army Corps of Engineers

USAEC – U.S. Army Environmental Center

EQM – Environmental Quality Management, Inc.

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1		LIST OF GENERAL ACRONYMS
2		
3	AGS	Above Ground Surface
4	amsl	Above Mean Sea Level
5	AOC	Area of Concern
6	BGS	Below Ground Surface
7	BTOC	Bottom of Casing
8	CERCLA	Comprehensive Environmental Response Compensation and Liability Act
9	DOD	Department of Defense
10	EPA	Environmental Protection Agency
11	EQM	Environmental Quality Management, Inc.
12	°F	Degrees Fahrenheit
13	<b>FWGWMP</b>	Facility-wide Groundwater Monitoring Program
14	FWSAP	Facility-wide Sampling and Analysis Plan
15	GOCO	Government Owned, Contractor Operated
16	IRP	Installation Restoration Program
17	LCS	Laboratory Control Sample
18	LCG	Louisville Chemistry Guidelines
19	IDW	Investigation Derived Waste
20	μg/L	microgram per Liter
21	MARC	Multiple Award Remediation Contract
22	MCL	Maximum Contaminant Level
23	mw	Monitoring Well
24	NOAA	National Oceanographic and Atmospheric Administration
25	OHARNG	Ohio Army National Guard
26	PCB	Polychlorinated Biphenyl
27	PQLs	Practical Quantitation Limits
28	PRGs	Preliminary Remediation Goals
29	PVC	Polyvinyl Chloride
30	QAPP	Quality Assurance Project Plan
31	RCRA	Resource Conservation and Recovery Act
32	RIs	Remedial Investigations
33	RLs	Reporting Limits
34	RTLS	Ravenna Training and Logistics Site
35	RVAAP	Ravenna Army Ammunition Plant
36	SVOC	Semi-volatile Organic Compound
37	TA	TestAmerica
38	USACE	U.S. Army Corps of Engineers
39	USDA	U.S. Department of Agriculture
40	USP&FO	United States Property and Fiscal Officer
41	VOC	Volatile organic compound
42		

1		LIST OF AREA OF CONCERN ACRONYMS
2		
3	B12	Building 1200
4	BKG	Background
5	CBL	C-Block
6	CBP	Central Burn Pits
7	CP	Cobbs Pond
8	DA2	Demolition Area #2
9	EBG	Erie Burning Grounds
10	FBQ	Fuze and Booster Quarry
11	LNW	Landfill North of Winklepeck
12	LL	Load Line
13	MBS	Mustard Burial Site
14	NACA	National Advisory Committee for Aeronautics
15	NTA	NACA Test Area
16	RQL	Ramsdale Quarry Landfill
17	WBG	Winklepeck Burning Grounds
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### **SECTION 1**

3

#### INTRODUCTION

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#### 1.1 Facility Description

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Past Department of Defense (DOD) activities at the Ravenna Army Ammunition Plant (RVAAP) date to 1940 and include the manufacturing, loading, handling and storage of military explosives and ammunition. Until 1999, the RVAAP was identified as a 21,419acre installation. The property boundary was resurveyed by the Ohio Army National Guard (OHARNG) over a two year period from 2002 and 2003 and the actual total acreage of the property was found to be 21,683.289 acres. As of February 2006, a total of 20,403 acres of the former 21,683 acre RVAAP have been transferred to the United States Property and Fiscal Officer (USP&FO) for Ohio for use by the OHARNG as a military training site. The current RVAAP consists of 1,280 acres in several distinct parcels scattered throughout the confines of the OHARNG Ravenna Training and Logistics Site (RTLS). The RVAAP and the RTLS are collocated on contiguous parcels of property and the RTLS perimeter fence completely encloses the remaining parcels of the RVAAP. The RTLS is in northeastern Ohio within Portage and Trumbull Counties, approximately 4.8 kilometers (3 miles) east-northeast of the city of Ravenna and approximately 1.6 kilometers (1 mile) northwest of the city of Newton Falls (Figure 1-1). The RVAAP portions of the property are solely located within Portage County. The RTLS (inclusive of the RVAAP) is a parcel of property approximately 17.7 kilometers (11 miles) long and 5.6 kilometers (3.5 miles) wide bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garret, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on the north; and State Route 534 on the east (see Figures 1-1 and 1-2). The RTLS is surrounded by several communities: Windham on the north; Garrettsville 9.6 kilometers (6 miles) to the northwest; Newton Falls 1.6 kilometers (1 mile) to the southeast; Charlestown to the southwest; and Wayland 4.8 kilometers (3 miles) to the south. When the RVAAP was operational the RTLS did not exist and the entire 21,683-acre parcel was a government-owned, contractor-operated (GOCO) industrial facility. The RVAAP Installation Restoration Program (IRP) encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP and therefore references to the RVAAP in this document are considered to be inclusive of the historical extent of the RVAAP, which is inclusive of the combined acreages of the current RTLS and RVAAP, unless otherwise specifically stated.

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#### 1.2 Project Description

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In 2004 the U.S. Army and the Ohio Environmental Protection Agency (EPA) finalized the Facility-wide Groundwater Monitoring Program (FWGWMP) Plan which details the requirements of the program. The FWGWMP was initiated in 2005 with three consecutive quarters of FWGWMP well

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**Figure 1-1 General Location Map** 



Figure 1-2 RVAAP Facility Map

sampling. Quarterly sampling has continued in 2006 and 2007. All FWGWMP wells were sampled once every quarter, with the exception of the Ramsdell Quarry Landfill (RQL) wells RQLmw-007, -008, and -009, and two Demolition Area #2 (DA2) wells, DA2mw-DET3 and -DET4. These are wells monitored under the Resource Conservation and Recovery Act (RCRA) program. The RQL and DA2 wells were sampled twice a year, during the second (April) and fourth (October) sampling events.

Details of the program design and requirements are contained in the *RVAAP Facility-Wide Groundwater Monitoring Program Plan*, (Portage Environmental, September 2004). This document contains the Facility-wide Sampling and Analysis Plan (FWSAP), Site Safety and Health Plan, and Quality Assurance Project Plan (QAPP) addends that pertain to the proposed work. Additional details pertaining to performance of field and laboratory activities are contained in the *RVAAP Facility-Wide Sampling and Analysis Plan/Quality Assurance Project Plan (FWSAP)*, (SAIC, March 2001). As detailed in the FWGWMP Plan, the initial monitoring program consisted of the sampling of 36 wells specified in Table 4-1 of the FWGWMP Plan. Fourteen of these wells were "Background Wells" and the remainder were wells situated at various Areas of Concern (AOCs) at RVAAP. The first sampling event for the FWGWMP was conducted in April 2005.

By agreement with the U.S. Army and the Ohio EPA and in accordance with Amendment No. 1 to the FWGWMP Plan, the Annual Report for 2008 summarizes the October 2007, as well as the January, April, and July, 2008 sampling events. Amendment No. 1 changed the annual reporting period from 1 January – 31 December to 1 October – 30 September. The change to the program was made so that the Annual Report for 2006 would include monitoring activities performed in the 4th quarter of 2005, and the 1st, 2nd, and 3rd quarters of 2006. Subsequent annual monitoring periods would also follow this pattern, such as the 2007 annual report, which covers the fourth quarter of 2006 and the first, second, and third quarters of 2007. This change was made because it was discovered that requiring the 4th quarter data to be included in the current years' Annual Report did not allow sufficient time to collect samples, analyze samples, verify and validate data, assess results and still make the December deadline for including these results in the Annual Report.

The results of the sampling events covered under this Annual Report are presented in the following documents:

• Facility-Wide Groundwater Monitoring Program, Report on the October 2007 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated April 2008 (EOM).

• Facility-Wide Groundwater Monitoring Program, Report on the January 2008 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated August 2008 (EQM).

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Facility-Wide Groundwater Monitoring Program, Report on the April 2008 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated November 2008 (EQM).

• Draft Facility-Wide Groundwater Monitoring Program, Report on the July 2008 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio, dated October 2008 (EQM).

The results for the October 2008 sampling event will be submitted in a separate document and will be summarized in the Annual Report for 2009.

#### 1.3 Summary of the Scope of Work for 2008

Environmental Quality Management, Inc. (EQM) has been contracted (MARC Contract Number W912QR-04-D-0036) by the U.S. Army Corps of Engineers, Louisville District (USACE) to conduct the 2007 FWGWMP monitoring program beginning in April 2007. Prior to the April 2007 monitoring event, SpecPro conducted groundwater monitoring activities under the FWGWMP. The objective of this project is to continue quarterly monitoring under the RVAAP Facility-wide Groundwater Monitoring Program. The following tasks were performed in accordance with specifications contained in the FWGWMP Plan, the FWSAP, and the Scope of Work written by the USACE:

- Performed groundwater sampling of select wells for four consecutive quarters. The wells sampled are identified in Section 1.5.1 of this report. The wells were sampled by EQM. RQL (3 wells) and DA2 wells (DET-3 and DET-4) were only sampled in October 2007 and April 2008 as required.
- Water-level measurements from the 237 RVAAP monitoring wells were measured immediately prior to the July 2008 sampling event which were used to generate updated potentiometric maps. The next scheduled water level measurement event for all wells is January 2009.
- Performed laboratory analyses and data validation for the collected samples.
- Reduced quarterly data and preparation of individual sampling event reports.
- Prepared the requisite Investigation Derived Waste (IDW) characterization, and disposal report.
- Prepared the 2008 annual report, including the overall program review requirement.
- Performed maintenance on selected groundwater monitoring wells.

# 1.4 Annual Report Requirements and Report Presentation

This report presents the FWGWMP 2008 Annual Report. The report is structured in the following way:

• Section 1 – Introduction

- Section 2 Summary of Monitoring Wells Installed or Abandoned in 2008
- Section 3 Summary of Annual FWGWMP Events
- Section 4 Summary and Assessment of Annual FWGWMP Analytical Results
- Section 5 FWGWMP Annual Recommendations/Review
- Section 6 References

The appendices contain the following items:

- Appendix A Correspondence Documenting the Change in Wells to be Sampled in 2008
- Appendix B List of Wells Sampled
- Appendix C Perchlorate Addendum and Ohio EPA Approval Letter
- Appendix D Benzoic Acid Approval Letter
- Appendix E Water Level Measurement Field Sheets
- Appendix F Well Inspection Sheets
- Appendix G Time-Trend Graphs
- Appendix H Maps of FWGWMP Study Areas
- Appendix I Reporting Limits that Currently Do Not Meet the RVAAP QAPP Practical Quantitation Limits (PQLs) and/or Region 9 Preliminary Remediation Goals (PRGs)

The following lists the information required for the annual report as detailed in Section 5.2 of the FWGWMP Plan, as well as where this information is presented in this report:

- An evaluation of the current groundwater flow direction(s) based on water-level elevation data collected in July 2008 is discussed in Section 3.1.
- An evaluation of the trends of contamination detected in groundwater, as well as an assessment of the effectiveness of any groundwater remediation activities is presented in Section 4.0.
- The plots of concentration trends are presented in Appendix G, and are discussed in Section 4.0
- The facility map is presented in Section 1.0. The monitoring well network map and groundwater flow maps are presented in Plates 1, 2, and 3. Additional FWGWMP monitoring well locations are shown in Appendix H.
- The results of the monitoring well inspections are presented in Appendix F and summarized in Section 3.2.

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• FWGWMP annual recommendations and review are presented in Section 5.0.

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### 1.5 Changes to the FWGWMP in 2008

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The following changes were made to the FWGWMP during sampling and analysis for the 2008 reporting period.

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# 1.5.1 Changes to Wells Being Monitored

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During this reporting period the wells sampled during the October 2007 were those presented in the FWGWMP. Beginning with the January 2008 event the wells previously sampled (from 2005 through October 2007) were dropped from the monitoring program and replaced as detailed below.

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On October 22, 2007 the USACE submitted to the Ohio EPA the *Draft Proposal to Update the Facility-Wide Ground Water Monitoring Program* (USACE October 2007) at the Ravenna Army Ammunition Plant. This proposal presented recommendations for modifications to the FWGWMP, the Director's Final Findings and Orders, and the Conceptual Plan in Appendix F of the Findings and Orders as presented below.

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Section 3.1.2.2 of the FWGWMP Plan establishes a protocol for adding and removing wells from the FWGWMP: "Future wells installed as part of individual AOC investigations conducted under the ongoing Comprehensive Environmental Response Compensation and Liability Act (CERCLA) process at RVAAP will be evaluated for incorporation into the FWGWMP upon completion of at least four quarterly groundwater sampling events to be conducted as part of the Remedial Investigation (RI) phase at each AOC. The frequency of the initial sampling events may be other than quarterly if agreed upon by the Army and Ohio EPA". Based on this protocol the USACE notified the Ohio EPA on December 12, 2007 that the wells to be sampled would be changed effective with the January 2008 monitoring event. The Ohio EPA provided concurrence with this change in an email dated January 8, 2008. The Ohio EPA was notified of an additional change on February 27, 2008 increasing the number of wells to be sampled for the April 2008 event. The Ohio EPA was notified on March 21, 2008 that the number of FWGWMP wells to be sampled in April 2008 would be increased to 132 plus the 5 RCRA wells sampled semi-annually. Copies of this correspondence are presented in Appendix A.

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The list of FWGWMP wells monitored for the October 2007 through July 2008 events are presented in Appendix B.

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### 1.5.2 Perchlorate Analysis

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Performed perchlorate analysis per the modification approved by the Ohio EPA on August 6, 2007. Appendix C presents the perchlorate sampling modification and Ohio

EPA approval Letter. Perchlorate analysis was performed on the wells identified in Section 4 of this report.

### 1.5.3 Reporting Limit Change

As potassium is naturally occurring in environmental samples, and has consistently been above the specified QAPP reporting limit (RL) in historical RVAAP samples, the need to detect potassium concentrations down to the level specified in the QAPP may not be necessary. Given the background criteria for filtered samples (5,770  $\mu$ g/L) for bedrock wells, and 2,890  $\mu$ g/L for unconsolidated wells) as well as the reporting limit considerations described above, it was requested that the reporting limit in the FWGWMP for potassium be raised to 1,000  $\mu$ g/L. This change to the reporting limit was approved by the Ohio EPA in a letter dated March 6, 2008.

No other changes to the FWGWMP were implemented during the 2008 reporting period.

# 1.6 Changes to the FWGWMP for 2009

The LCG specifies control limits for Laboratory Control Sample (LCS) recoveries. The Army and EQM have requested to use these limits in the process of evaluating data with the exception of an 8270C compound (Benzoic acid) which is commonly accepted as being a poor responder. The specified liquid LCS recovery limit from the LCG is 30-136%. Based upon EQM's review of TestAmerica's (TA) LCS control charts, recoveries in LCS samples for this compound is rarely above the Louisville Chemistry Guidelines (LCG) lower control limit. The control charts demonstrate that the calculated lower control limit would actually be below 0%. However, based upon sound laboratory practice, TA has set an in-house lower control limit at 10%. Historically for this project, TA has automatically re-extracted entire batches of 8270 samples when recoveries for this compound have been below in-house limits.

It was proposed to the Ohio EPA to use laboratory in-house limits (i.e., lower control limits = 10%) for Benzoic acid when evaluating data specific to this project. This request was approved by the Ohio EPA in a letter dated September 18, 2008. A copy of this approval is presented in Appendix D.

SECTION 2

SUMMARY OF WELLS INSTALLED OR ABANDONED IN 2008

No FWGWMP wells were installed or abandoned during the 2008 reporting period.

# **SECTION 3**

#### **SUMMARY OF 2007 FWGWMP EVENTS**

# 3.1 Groundwater Elevation Monitoring

Groundwater elevations were measured at 237 RVAAP monitoring wells on June 30 and July 1, 2008. The locations of monitoring wells at RVAAP are shown on Plate 1. The water level measurement field sheets are presented in Appendix E.

Water-level measurements were made in accordance with procedures in Section 4.3.3.1 of the RVAAP Facility-Wide Sampling and Analysis Plan (SAIC, 2001). Water-level measurements were made from the top of the inner casing to the top of the groundwater surface using an electronic measuring tape. The depth to the bottom of the well from the top of the inner casing also was measured with the electronic measuring tape. Depth-to-water and groundwater elevations for the RVAAP wells are presented in Table 3-1. Well construction details and depth to well bottom are presented in Table 3-2.

Each monitoring well was inspected at the time of water-level measurement and the results are discussed in Section 3.2. The monitoring well inspection sheets are presented in Appendix F.

Two RVAAP-wide potentiometric maps have been prepared. These maps represent the upper unconsolidated aquifer (Plate 2) and the deeper bedrock system (Plate 3). The bedrock system is differentiated by geologic formation to represent the Homewood Member of the Pennsylvania-age Pottsville Formation in the western half of the facility and the Sharon Member of the Pottsville Formation in the eastern half of the facility, per methods suggested by the USACE (Hockett, 2007). Note that 4 wells in Load Line 12 have been designated as being completed in the Sharon Shale. These four wells were not used to prepare the potentiometric maps.

Because of the variability of monitoring well density at RVAAP, the facility-wide potentiometric maps are general representations of groundwater flow patterns. If desired, the data collect in July 2008 and presented in Table 3-1 can be used to create a more detailed representation of potentiometric conditions for individual areas (e.g., southeastern (Load Lines 1 through 4 area) or central (Fuze and Booster Quarry, Demolition Area 2, and Winklepeck Burning Grounds, etc.) of RVAAP.

Plate 2 represents facility-wide groundwater flow in wells completed into the unconsolidated aquifer. The unconsolidated aquifer includes glacial till, glacial outwash, alluvium, and soil. Plate 2 illustrates that the potentiometric surface (i.e., water table) of the unconsolidated aquifer is a subdued expression of the surface topography of the RVAAP. Groundwater potentiometric elevation decreases approximately 207 ft from

Table 3-1. Depth to Water and Potentiometric Elevation (July 2008)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation (ft, amsl)	July 2008 Depth to Water (ft,	Potentiometric Elevation July 2008
			, , ,	BTOC)	(ft, amsl)
	BKGmw-004	Unconsolidated	967.66	13.14	954.52
	BKGmw-005	Unconsolidated	1151.94	12.02	1139.92
	BKGmw-006	Sharon	1028.88	22.38	1006.50
	BKGmw-008	Sharon	972.90	16.69	956.21
	BKGmw-010	Sharon	1006.18	16.46	989.72
	BKGmw-012	Sharon	1000.07	9.41	990.66
Background	BKGmw-013	Unconsolidated	989.09	12.27	976.82
g	BKGmw-015	Sharon	1040.40	48.80	991.60
	BKGmw-016	Unconsolidated	1100.92	6.34	1094.58
	BKGmw-017	Unconsolidated	1135.30	18.10	1117.20
	BKGmw-018	Sharon	1045.56	15.62	1029.94
	BKGmw-019	Unconsolidated	1110.74	19.99	1090.75
	BKGmw-020	Unconsolidated	1067.50	9.41	1058.09
	BKGmw-021	Unconsolidated	974.66	13.37	961.29
	LL1mw-063	Sharon	994.84	23.94	970.90
	LL1mw-064	Unconsolidated	935.10	2.12	932.98
	LL1mw-065	Unconsolidated	944.41	11.85	932.56
	LL1mw-067	Sharon	980.36	16.95	963.41
	LL1mw-078	Sharon	995.84	30.22	965.62
Land Cont	LL1mw-079	Sharon	997.87	30.26	967.61
Load Line 1	LL1mw-080	Sharon	996.27	9.68	986.59
	LL1mw-081	Sharon	998.92	29.57	969.35
	LL1mw-082	Sharon	1006.45	27.28	979.17
	LL1mw-083	Sharon	995.20	31.20	964.00
	LL1mw-084	Sharon	998.73	27.76	970.97
	LL1mw-085	Sharon	996.84	33.53	963.31
	LL2mw-059	Sharon	966.67	12.75	953.92
	LL2mw-060	Sharon	961.57	9.77	951.80
	LL2mw-261	Sharon	1011.40	7.09	1004.31
	LL2mw-262	Sharon	1012.62	8.55	1004.07
	LL2mw-263	Sharon	1011.47	8.63	1002.84
	LL2mw-264	Sharon	1011.88	7.02	1004.86
Load Line 2	LL2mw-265	Sharon	961.24	9.33	951.91
	LL2mw-266	Sharon	1016.28	11.87	1004.41
	LL2mw-267	Sharon	1014.81	9.92	1004.89
	LL2mw-268	Sharon	1017.28	15.02	1002.26
	LL2mw-269	Sharon	1011.62	17.01	994.61
	LL2mw-270	Sharon	1010.18	9.25	1000.93
	LL3mw-232	Sharon	1000.41	19.61	980.80
	LL3mw-233	Sharon	1004.36	26.28	978.08
	LL3mw-234	Sharon	1006.56	10.77	995.79
	LL3mw-235	Sharon	1009.94	18.30	991.64
	LL3mw-236	Sharon	1011.17	16.40	994.77
	LL3mw-237	Sharon	1005.57	15.98	989.59
Load Line 3	LL3mw-238	Sharon	1006.91	15.90	991.01
	LL3mw-239	Sharon	1003.50	25.26	978.24
	LL3mw-240	Sharon	1007.52	28.80	978.72
	LL3mw-241	Sharon	994.65	12.12	982.53
	LL3mw-242	Sharon	999.32	16.16	983.16
	LL3mw-243				
	LLJIIIW-Z4J	Sharon	991.16	15.63	975.53

Table 3-1. Depth to Water and Potentiometric Elevation (July 2008)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation	July 2008 Depth to Water (ft,	Potentiometric Elevation July 2008
TOTO II TIICA	Well ID	Worldored Zorie	(ft, amsl)	BTOC)	(ft, amsl)
	LL4mw-193	Unconsolidated	982.92	7.32	975.60
	LL4mw-194	Unconsolidated	983.76	8.78	974.98
	LL4mw-195	Unconsolidated	982.59	10.82	971.77
	LL4mw-196	Unconsolidated	984.55	12.85	971.70
Load Line 4	LL4mw-197	Unconsolidated	985.46	14.06	971.40
	LL4mw-198	Unconsolidated	983.42	8.37	975.05
	LL4mw-199	Unconsolidated	977.28	7.02	970.26
	LL4mw-200	Unconsolidated	987.93	17.47	970.46
	LL5mw-001	Homewood	1127.92	20.19	1107.73
	LL5mw-002	Homewood	1128.68	21.90	1106.78
Load Line 5	LL5mw-003	Unconsolidated	1127.70	19.59	1108.11
Load Line 5	LL5mw-004	Homewood	1125.81	18.15	1107.66
	LL5mw-005	Homewood	1129.42	21.70	1107.72
	LL5mw-006	Homewood	1128.00	20.32	1107.68
	LL6mw-001	Unconsolidated	1124.16	13.92	1110.24
	LL6mw-002	Unconsolidated	1129.36	21.19	1108.17
	LL6mw-003	Homewood	1125.38	16.14	1109.24
Load Line 6	LL6mw-004	Homewood	1125.39	17.25	1108.14
	LL6mw-005	Homewood	1120.47	12.20	1108.27
	LL6mw-006	Unconsolidated	1124.37	14.05	1110.32
	LL6mw-007	Homewood	1115.62	6.82	1108.80
	LL7mw-001	Homewood	1129.64	20.26	1109.38
	LL7mw-002	Homewood	1129.55	15.25	1114.30
Load Line 7	LL7mw-003	Homewood	1120.84	11.19	1109.65
	LL7mw-004	Homewood	1126.32	14.55	1111.77
	LL7mw-005	Homewood	1135.87	21.43	1114.44
	LL7mw-006	Homewood	1123.56	10.92	1112.64
	LL8mw-001	Unconsolidated	1121.46	11.24	1110.22
	LL8mw-002	Unconsolidated	1124.51	18.03	1106.48
Load Line 8	LL8mw-003	Unconsolidated	1119.05	11.77	1107.28
Load Line o	LL8mw-004	Unconsolidated	1115.75	10.79	1104.96
	LL8mw-005	Homewood	1115.73	13.24	1102.49
	LL8mw-006	Homewood	1117.17	19.75	1097.42
	LL9mw-001	Homewood	1134.62	15.79	1118.83
	LL9mw-002	Homewood	1127.30	12.60	1114.70
	LL9mw-003	Homewood	1135.76	12.70	1123.06
Load Line 9	LL9mw-004	Homewood	1131.83	20.45	1111.38
	LL9mw-005	Homewood	1130.93	16.59	1114.34
	LL9mw-006	Homewood	1129.88	19.20	1110.68
	LL9mw-007	Homewood	1119.99	9.57	1110.42
	LL10mw-001	Homewood	1132.77	23.74	1109.03
	LL10mw-002	Homewood	1127.13	17.69	1109.44
Load Line 10	LL10mw-003	Homewood	1130.28	21.34	1108.94
Load Line 10	LL10mw-004	Homewood	1122.39	13.38	1109.01
	LL10mw-005	Homewood	1125.67	15.69	1109.98
	LL10mw-006	Unconsolidated	1123.83	12.63	1111.20

Table 3-1. Depth to Water and Potentiometric Elevation (July 2008)

LL11mw-001 Unconsolidated 1100.16 9.74 L L11mw-002 Unconsolidated 1080.00 2.82 LL11mw-003 Unconsolidated 1088.48 2.49	vation July 2008 (ft, amsl) 1090.42 1077.18
LL11mw-001         Unconsolidated         1100.16         9.74           L L11mw-002         Unconsolidated         1080.00         2.82           LL11mw-003         Unconsolidated         1088.48         2.49	1090.42
LL11mw-003 Unconsolidated 1088.48 2.49	1077.18
	1085.99
LL11mw-004 Unconsolidated 1084.72 1.55	1083.17
LL11mw-005 Unconsolidated 1079.40 7.89	1071.51
Load Line 11	1081.79
LL11mw-007 Unconsolidated 1082.00 14.30	1067.70
LL11mw-008 Unconsolidated 1087.74 3.04	1084.70
LL11mw-009 Unconsolidated 1091.54 3.85	1087.69
LL11mw-010 Unconsolidated 1082.68 4.60	1078.08
LL12mw-088 Unconsolidated 981.06 6.23	974.83
LL12mw-107 Unconsolidated 980.15 8.83	971.32
LL12mw-113 Sharon Shale 980.18 6.28	973.90
LL12mw-128 Unconsolidated 978.24 9.38	968.86
LL12mw-153 Unconsolidated 977.85 5.87	971.98
LL12mw-154 Unconsolidated 979.06 8.29	970.77
LL12mw-182 Unconsolidated 984.42 9.61	974.81
LL12mw-183 Sharon Shale 982.98 11.73	971.25
LL12mw-184 Unconsolidated 983.16 11.97	971.19
Load Line 12 LL12mw-185 Unconsolidated 981.31 6.93	974.38
LL12mw-186 Sharon Shale 978.31 5.57	972.74
LL12mw-187 Unconsolidated 979.94 9.06	970.88
LL12mw-188 Unconsolidated 980.63 5.63	975.00
LL12mw-189 Sharon Shale 978.04 5.08	972.96
LL12mw-242 Unconsolidated 981.20 8.75	972.45
LL12mw-243 Unconsolidated 980.79 8.42	972.37
LL12mw-244 Unconsolidated 980.65 9.70	970.95
LL12mw-245 Unconsolidated 980.04 7.16	972.88
LL12mw-246 Unconsolidated 984.83 15.85	968.98
ASYmw-001 Sharon 981.13 11.43	969.70
ASYmw-002 Sharon 985.24 13.64	971.60
ASYmw-003 Sharon 982.21 12.40	969.81
ASYmw-004 Sharon 979.66 9.42	970.24
Atlas Scrap Yard ASYmw-005 Sharon 979.80 8.18	971.62
Allas Scrap Fard ASYmw-006 Sharon 983.01 13.62	969.39
ASYmw-007 Unconsolidated 984.16 14.69	969.47
ASYmw-008 Unconsolidated 978.85 5.56	973.29
ASYmw-009 Sharon 982.70 12.29	970.41
ASYmw-010 Unconsolidated 981.05 12.84	968.21
B12mw-010 Sharon 1005.92 17.19	988.73
Building 1200 B12mw-011 Sharon 1006.70 19.32	987.38
B12mw-012 Sharon 1006.32 18.71	987.61
CBLmw-001 Homewood 1181.08 40.65	1140.43
C-Block Quarry CBLmw-002 Homewood 1175.24 35.31	1139.93
C-Block Quarry CBLmw-003 Homewood 1175.06 33.13	1141.93
CBLmw-004 Homewood 1174.84 33.59	1141.25

Table 3-1. Depth to Water and Potentiometric Elevation (July 2008)

			TOC Flavorian	July 2008 Depth	Potentiometric
RVAAP Area	Well ID	Monitored Zone	TOC Elevation	to Water (ft,	Elevation July 2008
			(ft, amsl)	BTOC)	(ft, amsl)
	CBPmw-001	Unconsolidated	975.84	12.67	963.17
Central Burn Pits	CBPmw-002	Unconsolidated	970.04	7.86	962.18
	CBPmw-003	Unconsolidated	974.67	11.71	962.96
Central Burn Pits	CBPmw-004	Unconsolidated	971.13	10.64	960.49
Contrair Burn 1 no	CBPmw-005	Unconsolidated	971.59	11.98	959.61
	CBPmw-006	Unconsolidated	967.64	7.70	959.94
	CBPmw-007	Unconsolidated	976.37	15.32	961.05
	CBPmw-008	Unconsolidated	973.19	15.61	957.58
	CPmw-001	Unconsolidated	975.26	4.50	970.76
	CPmw-002	Unconsolidated	972.31	0.99	971.32
Cobbs Pond	CPmw-003	Unconsolidated	972.92	2.12	970.80
Cobbs Folia	CPmw-004	Unconsolidated	981.20	11.89	969.31
	CPmw-005	Unconsolidated	973.58	11.01	962.57
	CPmw-006	Unconsolidated	965.13	8.78	956.35
	DET-001B	Unconsolidated	1065.85	22.78	1043.07
	DET-002	Unconsolidated	1061.24	32.75	1028.49
	DET-003	Unconsolidated	1036.81	9.72	1027.09
	DET-004	Unconsolidated	1038.68	10.93	1027.75
	DA2mw-104	Unconsolidated	1073.89	20.52	1053.37
	DA2mw-105	Unconsolidated	1045.34	3.58	1041.76
D 100 A 0	DA2mw-106	Unconsolidated	1043.79	5.25	1038.54
Demolition Area 2	DA2mw-107	Unconsolidated	1041.63	7.05	1034.58
	DA2mw-108	Unconsolidated	1032.36	6.20	1026.16
	DA2mw-109	Unconsolidated	1071.29	13.77	1057.52
	DA2mw-110	Unconsolidated	1063.78	8.93	1054.85
	DA2mw-111	Unconsolidated	1042.12	4.26	1037.86
	DA2mw-112	Unconsolidated	1037.44	7.82	1029.62
	DA2mw-113	Unconsolidated	1037.11	8.38	1028.73
	EBGmw-123	Unconsolidated	947.82	9.57	938.25
	EBGmw-124	Unconsolidated	941.39	3.19	938.20
	EBGmw-125	Unconsolidated	949.89	11.72	938.17
Erie Burning	EBGmw-126	Unconsolidated	940.61	2.29	938.32
Grounds	EBGmw-127	Unconsolidated	943.07	6.35	936.72
	EBGmw-128	Unconsolidated	945.13	6.82	938.31
	EBGmw-129	Unconsolidated	944.36	6.13	938.23
	EBGmw-130	Unconsolidated	944.00	6.70	937.30
	FBQmw-166	Unconsolidated	1108.86	5.15	1103.71
	FBQmw-167	Unconsolidated	1115.90	4.89	1111.01
	FBQmw-168	Homewood	1133.91	12.24	1121.67
	FBQmw-169	Homewood	1120.58	6.88	1113.70
	FBQmw-170	Homewood	1142.26	18.64	1123.62
Fuze and Booster	FBQmw-171	Homewood	1143.55	18.12	1125.43
Quarry	FBQmw-172	Homewood	1150.09	25.78	1124.31
	FBQmw-173	Homewood	1165.94	42.25	1123.69
	FBQmw-174	Homewood	1139.97	16.02	1123.95
	FBQmw-175	Homewood	1140.73	16.88	1123.85
	FBQmw-176	Unconsolidated	1131.91	9.10	1122.81
	FBQmw-177	Homewood	1128.57	12.75	1115.82

Table 3-1. Depth to Water and Potentiometric Elevation (July 2008)

RVAAP Area	Well ID	Monitored Zone	TOC Elevation (ft, amsl)	July 2008 Depth to Water (ft, BTOC)	Potentiometric Elevation July 2008 (ft, amsl)
	LNWmw-024	Unconsolidated	1038.00	12.10	1025.90
Landfill North of	LNWmw-025	Unconsolidated	1029.13	4.96	1024.17
Winklepeck	LNWmw-026	Unconsolidated	1027.80	5.63	1022.17
ľ	LNWmw-027	Unconsolidated	1027.13	6.72	1020.41
	NTAmw-107	Unconsolidated	1080.30	12.75	1067.55
•	NTAmw-108	Unconsolidated	1085.62	17.79	1067.83
ľ	NTAmw-109	Unconsolidated	1079.84	12.12	1067.72
•	NTAmw-110	Unconsolidated	1082.62	14.30	1068.32
ŀ	NTAmw-111	Unconsolidated	1080.94	3.89	1077.05
	NTAmw-112	Unconsolidated	1078.33	8.96	1069.37
NACA Test Area	NTAmw-113	Unconsolidated	1075.68	6.95	1068.73
ŀ	NTAmw-114	Unconsolidated	1078.71	6.17	1072.54
ľ	NTAmw-115	Unconsolidated	1089.65	14.05	1075.60
ľ	NTAmw-116	Unconsolidated	1094.33	6.35	1087.98
ľ	NTAmw-117	Unconsolidated	1094.54	13.65	1080.89
ŀ	NTAmw-118	Unconsolidated	1081.44	8.77	1072.67
	RQLmw-006	Sharon	995.39	33.09	962.30
ľ	RQLmw-007	Sharon	965.91	5.16	960.75
ľ	RQLmw-008	Sharon	966.08	5.20	960.88
ŀ	RQLmw-009	Sharon	964.58	3.97	960.61
ŀ	RQLmw-010	Sharon	982.14	24.23	957.91
Ramsdell Quarry	RQLmw-011	Sharon	976.57	20.90	955.67
Landfill	RQLmw-012	Sharon	977.65	20.72	956.93
ľ	RQLmw-013	Sharon	980.71	24.32	956.39
ŀ	RQLmw-014	Sharon	973.49	19.03	954.46
ľ	RQLmw-015	Sharon	991.26	29.49	961.77
ŀ	RQLmw-016	Sharon	996.60	33.80	962.80
ŀ	RQLmw-017	Sharon	991.23	28.23	963.00
	WBGmw-005	Unconsolidated	1054.70	5.83	1048.87
ŀ	WBGmw-006	Unconsolidated	1014.66	7.99	1006.67
ľ	WBGmw-007	Unconsolidated	1000.59	17.37	983.22
ŀ	WBGmw-008	Unconsolidated	1008.21	14.99	993.22
•	WBGmw-009	Unconsolidated	1047.53	13.59	1033.94
	WBGmw-010	Unconsolidated	1069.85	8.06	1061.79
Winklepeck Burning Grounds	WBGmw-011	Unconsolidated	1072.38	10.61	1061.77
Giounus	WBGmw-012	Unconsolidated	1079.11	15.61	1063.50
•	WBGmw-013	Unconsolidated	1071.70	10.49	1061.21
•	WBGmw-014	Unconsolidated	996.78	16.33	980.45
•	WBGmw-015	Unconsolidated	1011.60	12.56	999.04
•	WBGmw-016	Unconsolidated	997.03	17.12	979.91
ļ	WBGmw-017	Unconsolidated	1006.62	9.13	997.49
	MBS-001	Unconsolidated	1082.20	17.59	1064.61
ļ	MBS-002	Unconsolidated	1083.22	18.01	1065.21
Suspected Mustard	MBS-003	Unconsolidated	1084.45	18.53	1065.92
Agent Burial Site	MBS-004	Unconsolidated	1081.80	16.67	1065.13
ļ	MBS-005	Unconsolidated	1082.42	17.85	1064.57
ļ	MBS-006	Unconsolidated	1081.83	17.30	1064.53

TOC = top of casing amsl = above mean sea level BTOC = below top of casing

Table 3-2. Well Construction Details, Including July 2008 Depth to Bottom Measurements

											Bottom of			July 2008		
											Inner		Reported	Measured		1
		Ohio State	Ohio State	Ground	Total		Well		Top of	Bottom	Casing Plug or	Stickup	Bottom of Inner	Bottom of Inner	Sediment	Description
		Plane	Plane	Level	Drilled	тос	Head	Monitored	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation	of
RVAAP Area	Well ID	Easting	Northing	Elevation	Depth <sup>b</sup>	Elevation	Type <sup>c</sup>	Zone	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)	Bottom
	BKGmw-004	2368852.97	569464.76	965.16	19.5	967.66	A	Unconsolidated	9.2	19.2	19.5	2.50	22.0	22.42	-0.42	Hard
	BKGmw-005	2340835.86	562288.45	1,149.44	19.0	1,151.94	Α	Unconsolidated	8.2	18.2	18.5	2.50	21.0	21.07	-0.07	Hard
	BKGmw-006			1,026.38	35.1	1,028.88	Α	Sharon	24.7	34.7	35.1	2.50	37.6	37.69	-0.09	Hard
	BKGmw-008		569654.23	970.40	25.0	972.90	Α	Sharon	14.7	24.7	25.0	2.50	27.5	27.58	-0.08	Hard
	BKGmw-010		565540.54	1,003.80	22.0	1,006.18	Α	Sharon	8.9	18.9	19.2	2.38	21.6	22.10	-0.50	Hard
	BKGmw-012			997.57	59.8	1,000.07	A	Sharon	38.6	59.6	59.8	2.50	62.3	62.06	0.24	Soft
Background	BKGmw-013		558269.16	986.59	25.5	989.09	A	Unconsolidated	15.2	25.2	25.5	2.50	28.0	28.08	-0.08	Hard
	BKGmw-015		569339.87	1,037.90	51.0	1,040.40	A	Sharon	30.1	50.1	50.4	2.50	52.9	53.17	-0.27	Hard
	BKGmw-016			1,098.42	19.0 34.8	1,100.92	A	Unconsolidated Unconsolidated	8.4 23.2	18.5 33.3	18.6 33.6	2.50 2.50	21.1 36.1	21.35 36.15	-0.25 -0.05	Hard Hard
	BKGmw-017 BKGmw-018		562452.04 570873.35	1,132.80 1,043.06	24.7	1,135.30 1,045.56	A	Sharon	14.5	24.5	24.7	2.50	27.2	27.70	-0.50	Hard
	BKGmw-019		559864.55	1,108.24	34.0	1,110.74	A	Unconsolidated	23.0	33.0	33.2	2.50	35.7	35.85	-0.30	Hard
	BKGmw-020		558756.24	1,065.00	30.7	1,067.50	A	Unconsolidated	20.5	30.5	30.7	2.50	33.2	33.31	-0.13	Hard
	BKGmw-021	2367622.95		972.16	19.0	974.66	A	Unconsolidated	7.7	17.8	18.1	2.50	20.6	21.67	-1.07	Hard
	LL1mw-063	2376841.36		992.20	27.4	994.84	A	Sharon	17.1	27.1	27.4	2.64	30.0	30.01	-0.01	Hard
	LL1mw-064	2380286.97	563118.74	932.32	18.4	935.10	Α	Unconsolidated	8.0	18.0	18.4	2.78	21.1	21.01	0.09	Hard
	LL1mw-065	2380452.00	560916.92	941.53	20.5	944.41	Α	Unconsolidated	10.2	20.2	20.5	2.88	23.4	23.01	0.39	Hard
	LL1mw-067	2376545.30	565201.14	977.55	22.8	980.36	Α	Sharon	12.8	22.5	22.8	2.81	25.6	25.69	-0.09	Hard
	LL1mw-078	2376275.85	564623.87	993.40	38.7	995.84	Α	Sharon	28.7	38.2	38.7	2.44	41.1	41.18	-0.08	Soft
Load Line 1	LL1mw-079	2376228.31	563739.63	995.30	29.5	997.87	Α	Sharon	29.5	38.9	39.5	2.57	42.0	41.82	0.18	Hard
Load Line 1	LL1mw-080	2376845.07	562479.73	993.70	19.5	996.27	Α	Sharon	9.5	19.0	19.5	2.57	22.0	22.28	-0.28	Hard
	LL1mw-081	2376672.66		996.40	39.4	998.92	Α	Sharon	29.4	38.9	39.4	2.52	41.9	41.96	-0.06	Hard
	LL1mw-082	2376977.38	562956.86	1,003.70	39.0	1,006.45	Α	Sharon	28.9	38.5	39.0	2.75	41.8	41.48	0.32	Soft
	LL1mw-083	2377074.80	563612.75	992.80	39.3	995.20	Α	Sharon	29.1	38.6	39.3	2.40	41.7	41.51	0.19	Hard
	LL1mw-084	2377316.02	563160.44	996.40	37.0	998.73	Α	Sharon	26.7	36.3	37.0	2.33	39.3	38.97	0.33	Hard
	LL1mw-085	2377246.94		994.30	42.1	996.84	A	Sharon	32.2	41.6	42.1	2.54	44.7	45.16	-0.46	Hard
	LL2mw-059	2375453.00	558020.00	964.33	19.5	966.67	A	Sharon	9.3	19.1	19.5	2.34	21.8	21.84	-0.04	Hard
	LL2mw-060 LL2mw-261	2375978.00 2373317.81	558022.00 561898.25	958.93 1,009.55	18.3 22.5	961.57 1,011.40	A	Sharon Sharon	8.1 9.8	17.9 19.8	18.3 20.0	2.64 1.85	20.9 21.9	17.22 22.55	3.68 -0.65	Soft Hard
	LL2mw-262	2373970.79	562219.87	1,009.55	21.2	1,011.40	A	Sharon	10.6	20.6	20.8	1.50	22.3	22.75	-0.65	Hard
	LL2mw-263	2374289.51	561591.19	1,009.42	22.2	1,012.02	A	Sharon	10.8	20.8	21.0	2.05	23.0	22.65	0.35	Hard
	LL2mw-264	2374532.00	561173.60	1,010.10	20.5	1,011.88	A	Sharon	9.8	19.8	20.0	1.78	21.7	22.47	-0.77	Hard
Load Line 2	LL2mw-265	2375594.06	557972.91	959.47	22.5	961.24	A	Sharon	11.8	21.8	22.0	1.77	23.8	24.52	-0.72	Hard
	LL2mw-266	2373744.03		1,014.09	20.5	1,016.28	Α	Sharon	9.8	19.8	20.0	2.19	22.2	22.80	-0.60	Medium
	LL2mw-267	2373715.04	561393.22	1,012.81	20.5	1,014.81	Α	Sharon	9.8	19.8	20.0	2.00	22.0	22.80	-0.80	Hard
	LL2mw-268	2374157.30	560831.04	1,015.47	28.8	1,017.28	Α	Sharon	17.3	27.3	27.5	1.81	29.3	30.00	-0.70	Hard
		2374756.07		1,009.49	28.0	1,011.62	Α	Sharon	17.1	27.1	27.3	2.13	29.4	30.39	-0.99	Hard
	LL2mw-270	2372858.41	562655.93	1,009.93	20.5	1,010.18	Α	Sharon	9.8	19.8	20.0	0.25	20.3	22.50	-2.20	Hard
		2369862.96		998.59	37.8	1,000.41	Α	Sharon	26.8	36.8	37.0	1.82	38.8	39.91	-1.11	Hard
		2369934.52		1,002.47	31.1	1,004.36	Α	Sharon	20.1	30.1	30.3	1.89	32.2	32.86	-0.66	Hard
	LL3mw-234			1,004.47	20.5	1,006.56	Α	Sharon	9.8	19.8	20.0	2.09	22.1	22.74	-0.64	Hard
	LL3mw-235			1,008.05	21.2	1,009.94	A	Sharon	10.1	20.1	20.3	1.89	22.2	23.05	-0.85	Medium
	LL3mw-236			1,008.94	25.5	1,011.17	A	Sharon	13.8	23.8	24.0	2.23	26.2	26.68	-0.48	Hard
Load Line 3		2371475.00			23.9	1,005.57	A	Sharon	12.7	22.7	22.9	2.00	24.9	25.62	-0.72	Hard
	LL3mw-238			1,004.75	20.7	1,006.91	A	Sharon	10.5	20.5	20.7	2.16	22.9	23.44	-0.54	Hard
	LL3mw-239	2370895.01		1,001.70 1,005.60	35.7 35.5	1,003.50 1,007.52	A	Sharon Sharon	24.9 24.4	34.9 34.4	35.0 34.6	1.80 1.92	36.8 36.5	37.20 36.74	-0.40 -0.24	Soft Medium
	LL3mw-241			992.41	23.8	994.65	A	Sharon	12.7	22.7	22.9	2.24	25.1	25.66	-0.56	Hard
		2371993.30		997.39	20.5	999.32	A	Sharon	9.8	19.8	20.0	1.93	21.9	22.61	-0.71	Hard
		2371532.61		989.36	24.5	991.16	A	Sharon	13.8	23.8	24.0	1.80	25.8	26.41	-0.61	Hard
	LLJIIIW-243	201 1002.01	330000.32	303.30	24.5	331.10	_ ^	Julianon	13.0	23.0	∠+.∪	1.00	20.0	ZU.41	-0.01	rialu

Table 3-2. Well Construction Details, Including July 2008 Depth to Bottom Measurements

											Bottom of			July 2008		
											Inner		Reported	Measured		
											Casing		Bottom of	Bottom of		
		Ohio State	Ohio State	Ground	Total		Well		Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment	Description
		Plane	Plane	Level	Drilled	тос	Head	Monitored	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation	of
RVAAP Area	Well ID	Easting	Northing	Elevation <sup>a</sup>	Depth <sup>b</sup>	Elevation <sup>a</sup>	Type <sup>c</sup>	Zone	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)	Bottom
	LL4mw-193	2364237.44	554959.74	980.88	21.9	982.92	A	Unconsolidated	11.3	21.3	21.5	2.04	23.5	24.40	-0.90	Hard
	LL4mw-194	2364584.76	555088.18	981.87	22.0	983.76	Α	Unconsolidated	11.3	21.3	21.5	1.89	23.4	23.91	-0.51	Medium
	LL4mw-195	2365198.84	555045.69	980.83	21.0	982.59	Α	Unconsolidated	10.3	20.3	20.5	1.76	22.3	22.98	-0.68	Hard
Load Line 4	LL4mw-196	2365297.28	555212.59	982.56	20.0	984.55	Α	Unconsolidated	9.2	19.2	19.4	1.99	21.4	21.89	-0.49	Hard
Load Line 4	LL4mw-197	2365385.95	555396.55	983.79	21.7	985.46	Α	Unconsolidated	10.8	20.8	21.0	1.67	22.7	23.70	-1.00	Hard
	LL4mw-198	2364991.12	555440.99	981.61	22.0	983.42	Α	Unconsolidated	10.3	20.3	20.5	1.81	22.3	20.90	1.40	Medium
	LL4mw-199	2365421.66	554621.06	975.20	22.0	977.28	Α	Unconsolidated	10.3	20.3	20.5	2.08	22.6	23.31	-0.71	Medium
	LL4mw-200	2365904.12	554579.72	985.97	23.5	987.93	Α	Unconsolidated	12.6	22.6	23.0	1.96	25.0	25.32	-0.32	Hard
	LL5mw-001	2354625.07	554319.25	1,125.00	24.0	1,127.92	Α	Homewood	14.0	24.0	24.0	2.92	26.9	27.22	-0.32	Hard
	LL5mw-002	2354571.52	554604.01	1,125.80	25.0	1,128.68	Α	Homewood	15.0	25.0	25.0	2.88	27.9	27.04	0.86	Soft
Load Line 5	LL5mw-003	2354964.47	554535.41	1,124.70	21.0	1,127.70	Α	Unconsolidated	11.0	21.0	21.0	3.00	24.0	24.15	-0.15	Hard
Load Lille o	LL5mw-004	2355006.44	554073.73	1,122.90	22.4	1,125.81	Α	Homewood	12.0	22.0	22.0	2.91	24.9	25.58	-0.68	Hard
	LL5mw-005	2354422.02	554152.73	1,126.50	27.8	1,129.42	Α	Homewood	17.0	27.0	27.0	2.92	29.9	29.89	0.01	Hard
	LL5mw-006	2354730.78		1,125.10	24.5	1,128.00	Α	Homewood	14.0	24.0	24.0	2.90	26.9	27.27	-0.37	Hard
	LL6mw-001	2353153.23	554214.84	NA	18.0	1,124.16	F	Unconsolidated	7.0	17.0	17.0	0.00	17.0	17.78	-0.78	Hard
	LL6mw-002	2353820.09	553589.88	NA	23.0	1,129.36	F	Unconsolidated	12.5	22.5	22.5	0.00	22.5	24.65	-2.15	Hard
	LL6mw-003	2353048.68	553544.34	NA	23.4	1,125.38	Α	Homewood	12.5	22.5	22.5	3.35	25.9	25.91	-0.01	Hard
Load Line 6	LL6mw-004	2353368.79	553431.82	NA	23.0	1,125.39	Α	Homewood	12.5	22.5	22.5	2.58	25.1	24.70	0.40	Hard
	LL6mw-005	2353194.52	553170.76	NA	19.9	1,120.47	Α	Homewood	9.5	19.5	19.5	2.96	22.5	22.44	0.06	Hard
	LL6mw-006	2352419.15	553165.28	NA	20.0	1,124.37	Α	Unconsolidated	7.0	17.0	17.0	0.00	17.0	17.95	-0.95	Hard
	LL6mw-007	2353354.89	552677.17	NA	20.0	1,115.62	F	Homewood	9.5	19.5	19.5	0.00	19.5	19.53	-0.03	Hard
	LL7mw-001	2352192.91	554925.77	1,126.90	30.0	1,129.64	Α	Homewood	19.5	29.5	29.5	2.74	32.2	33.22	-1.02	Hard
	LL7mw-002	2351918.23	555126.55	1,126.70	26.5	1,129.55	Α	Homewood	15.0	25.0	25.0	2.85	27.8	27.37	0.43	Hard
Load Line 7	LL7mw-003	2352351.04	555417.04	1,118.23	31.5	1,120.84	Α	Homewood	21.0	31.0	31.0	2.61	33.6	33.71	-0.11	Hard
	LL7mw-004	2352035.20	555581.14	1,123.30	29.5	1,126.32	Α	Homewood	19.5	29.5	29.5	3.02	32.5	32.38	0.12	Hard
	LL7mw-005	2351741.47	555581.80	1,133.30	28.2	1,135.87	Α	Homewood	18.0	28.0	28.0	2.57	30.6	30.53	0.07	Hard
	LL7mw-006	2351879.92	555990.59	1,120.70	28.0	1,123.56	Α	Homewood	17.5	27.5	27.5	2.86	30.4	30.49	-0.09	Hard
	LL8mw-001	2351666.10	552607.06	1,118.69	24.0	1,121.46	Α	Unconsolidated	14.0	24.0	24.0	2.77	26.8	27.09	-0.29	Soft
	LL8mw-002	2351010.33	552408.18	1,121.67	30.4	1,124.51	A	Unconsolidated	20.0	30.0	30.0	2.84	32.8	32.74	0.06	Soft
Load Line 8	LL8mw-003	2351359.25	552231.14	1,116.30	21.0	1,119.05	A	Unconsolidated	10.5	20.5	20.5	2.75	23.3	23.20	0.10	Hard
	LL8mw-004	2351261.83	551807.58	1,112.73	20.5	1,115.75	A	Unconsolidated	10.0	20.0	20.0	3.02	23.0	22.87	0.13	Medium
	LL8mw-005	2351748.32	551522.48	1,112.51	24.0	1,115.73	A	Homewood	14.0	24.0	24.0	3.22	27.2	27.34	-0.14	Hard
	LL8mw-006	2351483.58	551296.77	1,114.33	24.2	1,117.17	A	Homewood	14.0	24.0	24.0	2.84	26.8	27.28	-0.48	Hard
	LL9mw-001	2355817.04	556125.81	NA NA	21.6	1,134.62	A	Homewood	10.5	20.5	20.5	2.78	23.3	23.49	-0.19	Hard
	LL9mw-002	2355907.76	556755.11	NA NA	21.0	1,127.30	A	Homewood	10.0	20.0	20.0	2.42	22.4	22.90	-0.50	Hard
Load Line 9	LL9mw-003	2356635.21 2357338.76	556445.31 556002.00	NA NA	22.0 33.0	1,135.76 1,131.83	A	Homewood	11.5 22.0	21.5 32.0	21.5 32.0	2.30 2.91	23.8 34.9	24.32 35.83	-0.52 -0.93	Hard Hard
Load Line 9	LL9mw-004	2357338.76					A	Homewood								Hard
		2356505.95		NA NA	20.6 26.8	1,130.93 1,129.88	Α	Homewood	10.0	20.0 26.0	20.0 26.0	3.30 2.90	23.3 28.9	23.66 28.98	-0.36 -0.08	Hard
				NA NA	19.0	1,129.00	A F	Homewood Homewood	16.0 8.5	18.5	18.5	0.00	18.5	18.28	0.22	Hard
		2355272.22			28.0	1,1132.77	A	Homewood	17.0	27.0	27.0	2.77	29.8	29.74	0.22	Hard
	LL10mw-001				28.0	1,132.77		Homewood	17.0	27.0	27.0	2.77	29.6	29.74	-0.25	Hard
	LL10mw-003			1,124.40	26.4	1,130.28	A	Homewood	16.0	26.0	26.0	2.73	28.9	28.70	0.20	Hard
Load Line 10	LL10mw-003				31.2	1,122.39	A	Homewood	21.0	31.0	31.0	2.79	33.8	33.69	0.20	Hard
	LL10mw-005				27.0	1,125.67	A	Homewood	16.5	26.5	26.5	2.79	29.3	29.39	-0.09	Hard
		2355654.80			24.0	1,123.83	A	Unconsolidated	13.5	23.5	23.5	2.63	26.1	26.67	-0.57	Hard
	LL IUIIIW-UU6	2300004.60	JU4990.25	1,121.20	∠4.∪	1,123.03	H	Uniconsolidated	13.5	23.5	23.5	2.03	∠0.1	20.07	-0.57	паш

Table 3-2. Well Construction Details, Including July 2008 Depth to Bottom Measurements

RVAAP Area	Well ID	Ohio State Plane Easting	Ohio State Plane Northing	Ground Level Elevation <sup>a</sup>	Total Drilled Depth <sup>b</sup>	TOC Elevation <sup>a</sup>	Well Head Type <sup>c</sup>	Monitored Zone	Top of Screen (ft, BGS)		Bottom of Inner Casing Plug or End Cap (ft, BGS)		Reported Bottom of Inner Casing (ft, BTOC)		Sediment Accumulation (ft)	Description of Bottom
	LL11mw-001		557505.03	1,097.46	23.0	1,100.16	Α	Unconsolidated	11.4	21.4	21.4	2.70	24.1	21.65	2.45	Hard
		2353354.28	558310.52	1,080.29	20.0	1,080.00	F	Unconsolidated	6.3	16.3	16.3	-0.29	16.0	16.59	-0.59	Hard
	LL11mw-003	2352737.87	557999.62	1,088.45	17.0	1,088.48	F	Unconsolidated	5.9	15.9	15.9	0.03	15.9	16.22	-0.32	Hard
	LL11mw-004	2352737.24	558164.36	1,084.60	17.0	1,084.72	F	Unconsolidated	6.1	16.1	16.1	0.12	16.2	16.33	-0.13	Hard
Load Line 11		2352847.56	558501.02	1,079.60	17.0	1,079.40	F	Unconsolidated	6.2	16.2	16.2	-0.20	16.0	16.58	-0.58	Hard
		2352521.36	558263.28	1,086.61	17.0	1,086.50	F	Unconsolidated	5.6	15.6	15.6	-0.11	15.5	15.85	-0.35	Hard
	LL11mw-007	2352388.60	558189.71 557981.17	1,079.22	23.0 17.0	1,082.00 1,087.74	A F	Unconsolidated	12.4	22.4	22.4	2.78	25.2 15.4	25.46	-0.26	Hard
		2352577.18	557981.17	1,087.90		1,087.74	F	Unconsolidated	5.6 6.7	15.6 16.7	15.6 16.7	-0.16 -0.10	16.6	15.86	-0.46 -3.08	Hard
		2352577.18		1,088.38 1,080.22	17.0 22.0	1,091.54		Unconsolidated	10.9	20.9	20.9			19.68 23.60	-3.08	Hard Hard
		2368667.75	557675.43 556393.79	978.94	29.0	981.06	A	Unconsolidated	14.8	24.8	25.0	2.46	23.4 27.1	27.32	-0.22	Hard
	LL12mw-088 LL12mw-107		556759.02	978.03	33.0	980.15	A	Unconsolidated Unconsolidated	20.7	30.7	31.0	2.12	33.1	33.77	-0.22	Hard
	LL12mw-113		558345.37	977.67	23.0	980.13	A	Sharon Shale	12.3	22.3	22.5	2.12	25.0	18.96	6.04	Soft
	LL12mw-128		557371.54	976.21	34.0	978.24	A	Unconsolidated	21.1	31.1	31.3	2.03	33.3	34.23	-0.93	Hard
		2368138.87	557823.23	975.34	26.0	976.24	A	Unconsolidated	12.3	22.3	22.5	2.03	25.0	24.87	0.13	Hard
			557754.56	977.00	29.0	979.06	A	Unconsolidated	16.4	26.4	26.6	2.06	28.7	28.72	-0.02	Hard
		2368853.20	555890.35	982.20	36.1	984.42	A	Unconsolidated	25.2	35.2	35.5	2.22	37.7	38.06	-0.36	Hard
		2369224.36	556068.15	980.59	36.0	982.98	A	Sharon Shale	23.2	33.3	33.6	2.39	36.0	36.41	-0.30	Hard
		2368997.48	556399.46	980.96	29.5	983.16	A	Unconsolidated	18.8	28.8	29.0	2.20	31.2	31.13	0.07	Hard
Load Line 12	LL12mw-185		556946.75	979.09	24.0	981.31	A	Unconsolidated	10.8	20.8	21.0	2.22	23.2	23.02	0.07	Hard
Load Line 12	LL12mw-186		559065.95	976.34	23.0	978.31	A	Sharon Shale	8.8	18.8	19.0	1.97	21.0	21.11	-0.11	Hard
		2368524.14	557633.10	977.90	29.0	979.94	A	Unconsolidated	17.2	27.2	27.4	2.04	29.4	29.68	-0.11	Hard
	LL12mw-188		558132.59	978.46	20.5	980.63	A	Unconsolidated	9.8	19.8	20.0	2.17	22.2	22.26	-0.26	Soft
		2367945.92	558569.27	976.17	18.5	978.04	A	Sharon Shale	7.5	17.5	17.7	1.87	19.6	19.85	-0.25	Hard
	LL12mw-242		558020.51	978.40	26.3	981.20	A	Unconsolidated	15.5	25.5	25.5	2.80	28.3	29.14	-0.84	Soft
	LL12mw-243		557376.32	978.10	24.0	980.79	A	Unconsolidated	13.0	23.0	23.0	2.69	25.7	25.47	0.23	Soft
		2368751.42	557377.17	978.10	30.0	980.65	A	Unconsolidated	19.5	29.5	29.5	2.55	32.1	30.97	1.13	Soft
		2368370.74	557044.55	977.50	29.0	980.04	Α	Unconsolidated	18.0	28.0	28.0	2.54	30.5	30.19	0.31	Hard
		2369432.17	556658.89	982.00	32.0	984.83	A	Unconsolidated	21.5	31.5	31.5	2.83	34.3	35.07	-0.77	Hard
		2366260.85	558404.04	978.40	22.0	981.13	A	Sharon	11.0	21.0	21.0	2.73	23.7	23.30	0.40	Hard
		2366170.86	557887.86	982.00	20.0	985.24	Α	Sharon	10.0	19.5	19.5	3.24	22.7	23.10	-0.40	Hard
		2366651.49	558015.94	979.70	21.5	982.21	Α	Sharon	11.0	21.0	21.0	2.51	23.5	23.60	-0.10	Hard
		2367166.04	557640.81	977.10	27.8	979.66	Α	Sharon	17.0	27.0	27.0	2.56	29.6	29.94	-0.34	Hard
Atlas Osnan Vand		2367448.16	557783.01	977.60	25.0	979.80	Α	Sharon	14.0	24.0	24.0	2.20	26.2	27.39	-1.19	Hard
Atlas Scrap Yard		2366746.73	557257.72	980.20	27.0	983.01	Α	Sharon	16.0	26.0	26.0	2.81	28.8	29.08	-0.28	Hard
		2366834.49	556818.08	981.40	28.0	984.16	Α	Unconsolidated	16.0	26.0	26.0	2.76	28.8	28.82	-0.02	Hard
	ASYmw-008			976.20	26.0	978.85	Α	Unconsolidated	15.0	25.0	25.0	2.65	27.7	27.69	0.01	Hard
	ASYmw-009	2366631.94	557603.68	979.90	22.0	982.70	Α	Sharon	11.5	21.5	21.5	2.80	24.3	24.69	-0.39	Hard
	ASYmw-010	2366985.37	557270.61	978.20	28.0	981.05	Α	Unconsolidated	17.0	27.0	27.0	2.85	29.8	31.25	-1.45	Hard
·	B12mw-010			1,002.72	21.0	1,005.92	Α	Sharon	10.0	20.0	20.0	3.20	23.2	22.91	0.29	Hard
<b>Building 1200</b>	B12mw-011			1,003.76	24.7	1,006.70	Α	Sharon	14.0	24.0	24.0	2.94	26.9	26.82	0.08	Hard
	B12mw-012		565828.01	1,003.43	22.3	1,006.32	Α	Sharon	12.0	22.0	22.0	2.89	24.9	24.90	0.00	Hard
	CBLmw-001			1,178.50	50.0	1,181.08	Α	Homewood	39.0	49.0	49.0	2.58	51.6	49.95	1.65	Hard
C-Block Quarry	CBLmw-002			1,172.50	45.3	1,175.24	Α	Homewood	34.5	44.5	44.5	2.74	47.2	47.52	-0.32	Hard
5 Blook Quality	CBLmw-003			1,172.22	44.0	1,175.06	Α	Homewood	33.0	43.0	43.0	2.84	45.8	44.92	0.88	Hard
	CBLmw-004			1,172.08	45.0	1,174.84	Α	Homewood	34.0	44.0	44.0	2.76	46.8	47.22	-0.42	Hard
	CBPmw-001			972.71	32.3	975.84	Α	Unconsolidated	21.8	31.8	31.8	3.13	34.9	32.81	2.09	Soft
	CBPmw-002			967.33	30.0	970.04	Α	Unconsolidated	19.5	29.5	29.5	2.71	32.2	32.14	0.06	Medium
	CBPmw-003			972.04	25.0	974.67	Α	Unconsolidated	14.5	24.5	24.5	2.63	27.1	30.31	-3.21	Hard
Central Burn Pits	CBPmw-004			968.58	27.5	971.13	Α	Unconsolidated	17.0	27.0	27.0	2.55	29.5	29.76	-0.26	Medium
Tana Balli i No	CBPmw-005			968.83	25.0	971.59	Α	Unconsolidated	14.5	24.5	24.5	2.76	27.3	27.52	-0.22	Medium
	CBPmw-006			965.01	23.0	967.64	Α	Unconsolidated	12.5	22.5	22.5	2.63	25.1	25.38	-0.28	Soft
	CBPmw-007			973.47	30.0	976.37	Α	Unconsolidated	19.5	29.5	29.5	2.90	32.4	31.88	0.52	Medium
		2366757.21		970.57	25.5	973.19	Α	Unconsolidated	15.0	25.0	25.0	2.62	27.6	28.03	-0.43	Hard

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Table 3-2. Well Construction Details, Including July 2008 Depth to Bottom Measurements

											Bottom of Inner Casing		Reported Bottom of	July 2008 Measured Bottom of		
RVAAP Area	Well ID	Ohio State Plane Easting	Ohio State Plane Northing	Ground Level Elevation <sup>a</sup>	Total Drilled Depth <sup>b</sup>	TOC Elevation <sup>a</sup>	Well Head Type <sup>c</sup>	Monitored Zone	Top of Screen (ft, BGS)	Bottom of Screen (ft, BGS)	Plug or End Cap (ft, BGS)	Stickup height (ft, AGS)	Inner Casing (ft, BTOC)	Inner Casing (ft, BTOC)	Sediment Accumulation (ft)	Description of Bottom
	CPmw-001	2368948.81	560440.91	975.46	16.0	975.26	F	Unconsolidated	5.5	15.5	15.5	-0.20	15.3	14.81	0.49	Hard
	CPmw-002	2368239.23	560311.26	972.72	16.0	972.31	F	Unconsolidated	5.5	15.5	15.5	-0.41	15.1	15.08	0.02	Hard
Cobbs Pond	CPmw-003	2368796.49	560676.30	973.27	18.5	972.92	F	Unconsolidated	8.0	18.0	18.0	-0.35	17.6	17.83	-0.23	Hard
CODDS I Olid	CPmw-004	2368674.31		978.51	20.0	981.20	Α	Unconsolidated	9.5	19.5	19.5	2.69	22.2	22.66	-0.46	Hard
	CPmw-005	2367900.41	561846.78	970.71	40.0	973.58	Α	Unconsolidated	29.5	39.5	39.5	2.87	42.4	43.30	-0.90	Hard
	CPmw-006	2367727.13	562830.13	962.97	18.5	965.13	Α	Unconsolidated	8.0	18.0	18.0	2.16	20.2	20.75	-0.55	Hard
	DET-001B	2354959.47	560820.03	1,064.35	39.0	1,065.85	Α	Unconsolidated	34.0	39.0	39.0	1.50	40.5	38.69	1.81	Hard
	DET-002	2355360.33	560664.71	1,060.24	39.0	1,061.24	A	Unconsolidated	34.0	39.0	39.0	1.00	40.0	42.21	-2.21	Hard
	DET-003	2355204.94	560456.10	1,035.81	15.0	1,036.81	A	Unconsolidated	7.0	12.0	12.0	1.00	13.0	11.09	1.91	Hard
	DET-004	2355072.36		1,037.68	11.0	1,038.68	Α	Unconsolidated	6.0	11.0	11.0	1.00	12.0	13.89	-1.89	Hard
	DA2mw-104	2354773.79		1,070.82	27.0	1,073.89	Α	Unconsolidated	16.3	26.3	26.5	3.07	29.6	29.38	0.22	Hard
	DA2mw-105	2354557.62	560572.58	1,042.66	14.0	1,045.34	Α	Unconsolidated	8.3	13.3	13.5	2.68	16.2	16.40	-0.20	Hard
Demolition Area 2		2354848.85	560560.49	1,041.19	16.0	1,043.79	A	Unconsolidated	8.3	15.3	15.5	2.60	18.1	16.97	1.13	Hard
	DA2mw-107	2354924.29	560480.05	1,039.18	15.0	1,041.63	A	Unconsolidated	8.8	13.8	14.0	2.45	16.5	17.02	-0.52	Hard
		2355604.43	560181.78	1,029.92	15.0	1,032.36	A	Unconsolidated	9.3	14.3	14.5	2.44	16.9	17.34	-0.44	Hard
	DA2mw-109	2354793.14	559897.89	1,068.66	24.0	1,071.29	Α	Unconsolidated	11.3	21.3	21.5	2.63	24.1	24.42	-0.32	Medium
	DA2mw-110	2355195.91	559927.02	1,061.39	20.0	1,063.78	Α	Unconsolidated	9.3	19.3	19.5	2.39	21.9	22.47	-0.57	Hard
	DA2mw-111	2354728.33	560222.94	1,039.63	12.6	1,042.12	Α	Unconsolidated	7.1	12.1	12.3	2.49	14.8	14.90	-0.10	Hard
		2355018.98	560378.36	1,034.87	15.0	1,037.44	Α	Unconsolidated	8.8	13.8	14.0	2.57	16.6	17.17	-0.57	Hard
		2355153.13		1,034.51	14.0	1,037.11	Α	Unconsolidated	8.3	13.3	13.5	2.60	16.1	16.41	-0.31	Hard
		2380049.21		945.59	32.0	947.82	Α	Unconsolidated	21.0	31.0	31.5	2.23	33.7	34.90	-1.20	Medium
		2380030.24		939.02	32.0	941.39	Α	Unconsolidated	20.0	30.0	30.5	2.37	32.9	32.84	0.06	Medium
Erie Burning Grounds	EBGmw-125	2379679.20		947.55	25.0	949.89	Α	Unconsolidated	14.0	24.0	24.5	2.34	26.8	27.56	-0.76	Hard
		2380307.31		938.20	28.0	940.61	Α	Unconsolidated	15.2	25.2	25.5	2.41	27.9	27.85	0.05	Hard
	EBGmw-127	2380172.16		940.21	30.0	943.07	Α	Unconsolidated	19.0	29.0	29.5	2.86	32.4	32.94	-0.54	Hard
		2379892.79		942.47	28.0	945.13	Α	Unconsolidated	15.0	25.0	25.3	2.66	28.0	28.33	-0.33	Hard
		2379240.52	572035.68	941.97	29.0	944.36	Α	Unconsolidated	16.0	26.0	26.0	2.39	28.4	31.14	-2.74	Hard
		2379220.69		941.18	26.0	944.00	Α	Unconsolidated	15.2	25.2	25.5	2.82	28.3	28.46	-0.16	Hard
		2349584.33		1,104.87	16.0	1,108.86	Α	Unconsolidated	5.5	15.5	15.5	3.99	19.5	19.90	-0.40	Hard
		2349675.45	553556.12	1,112.05	18.0	1,115.90	Α	Unconsolidated	5.0	15.0	15.0	3.85	18.9	19.16	-0.26	Hard
		2350066.87	553620.85	1,131.27	19.5	1,133.91	Α	Homewood	9.0	19.0	19.0	2.64	21.6	21.42	0.18	Hard
		2349730.90	553681.21	1,117.36	16.0	1,120.58	Α	Homewood	5.0	15.0	15.0	3.22	18.2	18.26	-0.06	Hard
		2350102.41	553975.40	1,139.67	30.5	1,142.26	Α	Homewood	20.0	30.0	30.0	2.59	32.6	32.88	-0.28	Hard
Fuze and Booster Quarry	FBQmw-171	2350072.44	554230.93	1,140.49	30.0	1,143.55	Α	Homewood	18.0	28.0	28.0	3.06	31.1	31.60	-0.50	Hard
	FBQmw-172	2349907.37	554322.17	1,145.71	33.0	1,150.09	Α	Homewood	20.0	30.0	30.0	4.38	34.4	34.56	-0.16	Hard
	FBQmw-173	2350449.01	554491.35	1,162.43	50.0	1,165.94	Α	Homewood	29.5	49.5	49.5	3.51	53.0	51.89	1.11	Hard
	FBQmw-174	2350289.81	554142.44	1,135.78	22.5	1,139.97	Α	Homewood	12.0	22.0	22.0	4.19	26.2	23.04	3.16	Hard
	FBQmw-175				22.5	1,140.73	Α	Homewood	12.0	22.0	22.0	3.57	25.6	26.00	-0.40	Hard
	FBQmw-176				21.5	1,131.91	Α	Unconsolidated	11.0	21.0	21.0	2.34	23.3	24.23	-0.93	Soft
	FBQmw-177			1,125.73	22.5	1,128.57	Α	Homewood	12.0	22.0	22.0	2.84	24.8	25.04	-0.24	Soft
	LNWmw-024			1,035.30	24.0	1,038.00	A	Unconsolidated	10.0	20.0	20.0	2.70	22.7	22.44	0.26	Hard
andfill North of Winklepeck	LNWmw-025			1,027.20	19.0	1,029.13	Α	Unconsolidated	8.0	18.0	18.0	1.93	19.9	20.42	-0.52	Hard
and the state of t	LNWmw-026			1,025.00	24.0	1,027.80	Α	Unconsolidated	13.0	23.0	23.0	2.80	25.8	26.11	-0.31	Hard
	LNWmw-027			1,024.40	25.0	1,027.13	Α	Unconsolidated	14.0	24.0	24.0	2.73	26.7	26.98	-0.28	Medium
	NTAmw-107			1,077.65	23.0	1,080.30	A	Unconsolidated	12.0	22.0	22.0	2.65	24.6	24.56	0.04	Hard
	NTAmw-108			1,083.22	23.0	1,085.62		Unconsolidated	12.0	22.0	22.0	2.40	24.4	24.69	-0.29	Soft
	NTAmw-109			1,076.89	19.0	1,079.84	A	Unconsolidated	8.0	18.0	18.0	2.95	20.9	21.10	-0.20	Hard
	NTAmw-110			1,080.03	28.0	1,082.62	A	Unconsolidated	17.0	27.0	27.0	2.59	29.6	29.95	-0.35	Hard
	NTAmw-111			1,078.07	20.0	1,080.94		Unconsolidated	9.5	19.5	19.5	2.87	22.4	22.28	0.12	Hard
NACA Test Area	NTAmw-112			1,075.36	23.9	1,078.33	A	Unconsolidated	13.9	23.9	23.9	2.97	26.9	26.84	0.06	Hard
<del> </del>	NTAmw-113			1,072.61	27.5	1,075.68	A	Unconsolidated	17.0	27.0	27.5	3.07	30.6	29.79	0.81	Hard
	NTAmw-114			1,075.61	20.0	1,078.71	A	Unconsolidated	9.5	19.5	19.5	3.10	22.6	22.98	-0.38	Hard
	NTAmw-115				24.0	1,089.65	Α	Unconsolidated	12.5	22.5	22.5	2.74	25.2	25.43	-0.23	Hard
	NTAmw-116			1,091.68	22.0	1,094.33	A	Unconsolidated	10.0	20.0	20.0	2.65	22.6	22.76	-0.16	Hard
	NTAmw-117			1,091.67	25.0	1,094.54	A	Unconsolidated	14.5	24.5	24.5	2.87	27.4	27.70	-0.30	Hard
	NTAmw-118	2347609.41	551335.04	1,078.86	22.5	1,081.44	Α	Unconsolidated	12.0	22.0	22.0	2.58	24.6	24.89	-0.29	Hard

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Table 3-2. Well Construction Details, Including July 2008 Depth to Bottom Measurements

					l				<u> </u>		Bottom of			July 2008		
											Inner		Reported	Measured		1
											Casing		Bottom of	Bottom of		1
		Ohio State	Ohio State	Ground	Total		Well		Top of	Bottom	Plug or	Stickup	Inner	Inner	Sediment	Description
		Plane	Plane	Level	Drilled	TOC	Head	Monitored	Screen	of Screen	End Cap	height	Casing	Casing	Accumulation	of
RVAAP Area	Well ID	Easting	Northing	Elevation <sup>a</sup>	Depthb	Elevation <sup>a</sup>	Type <sup>c</sup>	Zone	(ft, BGS)	(ft, BGS)	(ft, BGS)	(ft, AGS)	(ft, BTOC)	(ft, BTOC)	(ft)	Bottom
	RQLmw-006	2375927.71	566091.26	993.52	42.1	995.39	Α	Sharon	19.4	39.4	39.6	1.87	41.4	41.82	-0.42	Hard
	RQLmw-007	2375872.56	566544.36	963.86	18.7	965.91	Α	Sharon	6.0	16.0	16.2	2.05	18.2	18.70	-0.50	Hard
	RQLmw-008	2376011.08	566327.94	963.82	18.7	966.08	Α	Sharon	6.0	16.0	16.2	2.26	18.5	18.74	-0.24	Hard
	RQLmw-009	2376253.65	566351.20	962.60	18.8	964.58	Α	Sharon	5.9	15.9	16.4	1.98	18.4	18.63	-0.23	Hard
	RQLmw-010	2376048.58	566857.39	980.04	35.4	982.14	Α	Sharon	12.5	32.5	33.0	2.10	35.1	35.12	-0.02	Hard
Ramsdell Quarry Landfill	RQLmw-011	2376398.19	566819.66	974.60	35.4	976.57	Α	Sharon	12.4	32.4	32.6	1.97	34.6	35.43	-0.83	Hard
Rainsdeil Quarry Landilli		2376558.19	566551.95	975.12	30.5	977.65	Α	Sharon	19.8	29.8	30.0	2.53	32.5	32.75	-0.25	Hard
	RQLmw-013	2376204.93	566928.09	978.04	34.4	980.71	Α	Sharon	23.7	33.7	33.9	2.67	36.6	36.55	0.05	Hard
	RQLmw-014	2376519.38	566941.29	970.83	29.4	973.49	Α	Sharon	18.6	28.6	28.9	2.66	31.6	31.25	0.35	Soft
	RQLmw-015	2375490.96	566560.90	989.19	40.1	991.26	Α	Sharon	29.2	39.2	39.5	2.07	41.6	42.11	-0.51	Soft
	RQLmw-016	2375649.55	566177.68	994.02	39.5	996.60	Α	Sharon	28.5	38.5	39.0	2.58	41.6	41.75	-0.15	Hard
	RQLmw-017	2376124.18	565931.38	988.69	30.5	991.23	Α	Sharon	19.8	29.8	30.0	2.54	32.5	32.85	-0.35	Hard
	WBGmw-005	2357163.55	563037.18	1,052.20	19.0	1,054.70	Α	Unconsolidated	8.3	18.3	18.6	2.50	21.1	21.24	-0.14	Hard
		2359087.79	563008.87	1,012.16	19.0	1,014.66	Α	Unconsolidated	7.6	17.6	17.9	2.50	20.4	20.27	0.13	Hard
		2360420.44	562479.87	998.09	24.0	1,000.59	Α	Unconsolidated	13.5	23.5	23.8	2.50	26.3	26.50	-0.20	Hard
	WBGmw-008	2359700.57	562010.35	1,005.71	18.5	1,008.21	Α	Unconsolidated	8.1	18.2	18.5	2.50	21.0	20.96	0.04	Hard
	WBGmw-009	2357159.20	561603.54	1,045.03	24.0	1,047.53	Α	Unconsolidated	11.4	21.4	21.5	2.50	24.0	24.44	-0.44	Hard
	WBGmw-010	2356051.96	562893.20	1,067.10	21.0	1,069.85	Α	Unconsolidated	10.5	20.5	20.8	2.75	23.6	23.48	0.12	Soft
Winklepeck Burning Grounds	WBGmw-011	2356187.29	562609.18	1,069.70	22.0	1,072.38	Α	Unconsolidated	11.0	21.0	21.3	2.68	24.0	23.96	0.04	Medium
	WBGmw-012	2354810.65	562240.90	1,076.50	30.0	1,079.11	Α	Unconsolidated	19.0	29.0	29.4	2.61	32.0	31.75	0.25	Hard
	WBGmw-013	2355223.25	561518.27	1,069.10	22.0	1,071.70	Α	Unconsolidated	11.0	21.0	21.3	2.60	23.9	24.24	-0.34	Medium
	WBGmw-014	2360439.22	562061.26	994.10	23.0	996.78	Α	Unconsolidated	12.0	22.0	22.3	2.68	25.0	25.10	-0.10	Soft
	WBGmw-015	2359182.41	562340.12	1,009.10	22.0	1,011.60	Α	Unconsolidated	11.0	21.0	21.3	2.50	23.8	23.63	0.17	Hard
	WBGmw-016	2360645.88	562709.13	994.90	24.0	997.03	Α	Unconsolidated	13.0	23.0	23.3	2.13	25.4	25.32	0.08	Soft
	WBGmw-017	2359603.84	562913.24	1,004.00	22.0	1,006.62	Α	Unconsolidated	11.0	21.0	21.3	2.62	23.9	23.78	0.12	Medium
	MBS-001	2345323.00	550759.50	1,079.68	30.0	1,082.20	Α	Unconsolidated	19	28.7	29	2.52	31.5	31.10	0.40	Hard
	MBS-002	2345322.30	550886.20	1,080.50	30.0	1,083.22	Α	Unconsolidated	18	27.3	28	2.72	30.7	30.52	0.18	Hard
Suspected Mustard Agent	MBS-003	2345172.40	550922.80	1,082.45	30.0	1,084.45	Α	Unconsolidated	18.5	28.2	28.5	2.00	30.5	30.87	-0.37	Hard
Burial Site	MBS-004	2345134.20	550767.90	1,079.55	26.0	1,081.80	Α	Unconsolidated	14.7	24.4	24.7	2.25	27.0	26.70	0.30	Hard
	MBS-005	2345354.10	550800.70	1,080.50	30.0	1,082.42	Α	Unconsolidated	18	28	28.08	1.92	30.2	30.19	0.01	Soft
	MBS-006	2345282.30	550726.10	1,080.29	28.0	1,081.83	Α	Unconsolidated	16.5	26.5	26.56	1.54	28.2	28.30	-0.10	Medium

NA = Not available AGS = above ground surface BGS = below ground surface BTOC = below top of casing

<sup>a elevations are in feet above mean sea level (amsl)
b total drilled well borehole depth relative to ground surface.
c A = above grade completion; F = flush-mount completion</sup> 

west to east across RVAAP; with a maximum measured elevation of 1,139.92 ft above mean sea level (amsl) at well BKGmw-005 in the northwest portion of the facility and a minimum measured elevation of 932.56 ft amsl southeast of Load Line 1 (well LL1mw-065). At the watershed scale (e.g., Hinkley Creek, Sand Creek, and Eagle Creek), groundwater flow patterns are influenced by topography and the drainage patterns of the streams. The influence of surface topography on groundwater flow is especially observed within the Hinkley Creek watershed (e.g., NACA Test Area, Suspected Mustard Agent Burial Site, and Demolition Area 1 vicinity) where groundwater flow is toward the southwestern RVAAP boundary.

Plate 3 represents facility-wide groundwater flow in wells completed into bedrock. Preglacial erosion has resulted in bedrock highs (i.e., islands) surrounded and topped by glacial and recent deposits (i.e., unconsolidated aquifer). At least three such islands have been interpreted to exist at RVAAP. Two are topped by the Homewood Member and one by the Sharon Member. These islands may not be in hydraulic communication with each other but there is hydraulic communication with the unconsolidated aquifer. Plate 3 illustrates that groundwater in bedrock of the Sharon Member flows radially outward from bedrock into the surrounding unconsolidated aquifer. The potentiometric high is located beneath Load Line 2. Plate 3 indicates that groundwater in bedrock of the Homewood Member flows through these bedrock islands from and to the unconsolidated aquifer. Groundwater flow of the Homewood member is to the southeast toward the Michael J. Kerwin Reservoir on the Mahoning River, which is a regional hydraulic sink.

Groundwater elevation measurements were collected each time a groundwater sample was collected as part of the FWGWMP. Through January 2008, 36 wells were sampled on a quarterly basis; starting in April 2008, 132 wells were sampled on a quarterly basis. Table 3-3 presents the water-level elevations between September 2005 and July 2008 for all wells that have been sampled as a part of the FWGWMP.

### 3.2 Monitoring Well Inspection/Repair Results

# 3.2.1 Inspection Results – July 2008

 All FWGWMP monitoring wells at RVAAP were inspected during the week of June 30, 2008. Inspection of the physical condition of all existing facility monitoring wells was conducted at the same time potentiometric surface measurements were collected. The well inspection survey consisted of the following elements:

Following collection of water-level measurements, the total depth of each
monitoring well was sounded using the water-level indicator. These data allow a
determination of the degree of siltation and comparison of the constructed depths
recorded in the well construction logs.

Table 3-3. Groundwater Elevations

			(TOC)	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater	Groundwater
			Elevation (ft,	September	March 2006	July 2006 (ft.	September	January 2007	• • •		October 2007 (ft,		Elevation, April	Elevation, July
RVAAP Area	Well	Monitoring Zone		2005 (ft, amsl)	(ft, amsl)	amsl)	2006 (ft, amsl)		amsl)	amsl)	amsl)	amsl)	2008 (ft, amsl)	2008 (ft, amsl)
	BKGmw-004	Unconsolidated	967.66	953.24	953.93	954.08	953.74	953.74	955.45	954.08	952.87	NM	NM	954.52
	BKGmw-005	Unconsolidated	1,151.94	1,137.82	1,140.86	1,141.91	1,138.51	1,138.54	1,141.89	1,137.92	1,136.95	NM	NM	1,139.92
	BKGmw-006	Sharon	1,028.88	1,005.66	1,006.20	1,007.03	1,006.20	1,006.20	1,006.49	1,006.46	1,005.70	NM	NM	1,006.50
	BKGmw-008	Sharon	972.90	954.36	956.32	957.53	955.54	955.54	959.32	956.38	953.70	NM	NM	956.21
	BKGmw-010	Sharon	1,006.18	985.84	993.11	993.87	992.39	994.80	993.31	988.84	984.93	NM	NM	989.72
	BKGmw-012	Sharon	1,000.07	988.40	992.30	992.35	989.74	993.02	993.05	989.21	987.79	NM	NM	990.66
Background	BKGmw-013	Unconsolidated	989.09	976.26	977.03	977.50	976.68	978.00	978.07	976.65	975.97	NM	NM	976.82
Ü	BKGmw-015	Sharon	1,040.40	989.43	991.66	991.99	991.11	992.42	992.73	990.66	988.87	NM	NM	991.60
	BKGmw-016	Unconsolidated	1,100.92	1,093.73	1,095.28	1,095.71	1,094.04	1,095.88	1,095.70	1,093.00	1,092.82	NM	NM	1,094.58
	BKGmw-017	Unconsolidated	1,135.30	1,115.02	1,118.77	1,118.72	1,116.16	1,119.32	1,119.41	1,115.32	1,113.97	NM	NM	1,117.20
	BKGmw-018	Sharon	1,045.56	1,029.33	1,029.69	1,030.16	1,029.62	1,030.39	1,030.63	1,029.96	1,029.16	NM	NM	1,029.94
	BKGmw-019	Unconsolidated	1,110.74	1,090.06	1,092.24	1,092.64	1,091.02	1,093.59	1,095.64	1,091.38	1,089.63	NM	NM	1,090.75
	BKGmw-020	Unconsolidated	1,067.50	1,055.92	1,059.47	1,059.85	1,057.25	1,060.51	1,060.41	1,055.69	1,054.64	NM	NM	1,058.09
	BKGmw-021	Unconsolidated	974.66	955.67	956.00	959.32	956.29	961.80	962.33	960.00	954.99	NM	NM	961.29
	LL1mw-078	Sharon	995.84	964.46	963.39	965.80	965.05	966.85	968.58	966.51	963.60	NM	NM	965.62
	LL1mw-080	Sharon	996.27	984.78	986.07	987.04	985.60	987.15	986.98	984.18	981.97	NM	NM	986.59
	LL1mw-083	Sharon	995.20	962.67	961.76	964.12	963.36	965.35	967.14	964.78	961.68	NM	NM	964.00
Load Line 1	LL1mw-063	Sharon	994.84	968.39	NM	NM	NM	NM	NM	NM	967.10	966.51	972.12	970.90
	LL1mw-064	Unconsolidated	935.10	931.59	NM	NM	NM	NM	NM	NM	931.24	FROZEN	934.47	932.98
	LL1mw-065	Unconsolidated	944.41	932.20	NM	NM	NM	NM	NM	NM	929.82	932.50	934.63	932.56
	LL1mw-079	Sharon	997.87	966.51	NM	NM	NM	NM	NM	NM	965.58	965.25	967.15	967.61
	LL2mw-059	Sharon	966.67	953.09	954.45	954.99	953.56	955.77	956.66	954.22	952.79	NM	NM	953.92
	LL2mw-262	Sharon	1,012.62	1,001.63	1,005.65	1,006.01	1,003.52	1,006.20	1,006.86	1,002.58	1,001.28	NM	NM	1,004.07
	LL2mw-263	Sharon	1,011.47	1,000.50	1,004.26	1,004.94	1,002.79	1,002.79	1,005.14	1,001.28	1,000.04	NM	NM	1,002.84
	LL2mw-060	Sharon	961.57	951.16	NM	NM	NM	NM	NM	NM	950.66	951.42	953.03	951.80
Load Line 2	LL2mw-261	Sharon	1,011.40	1,011.40	NM	NM	NM	NM	NM	NM	1,003.30	1,004.08	1,005.00	1,004.31
	LL2mw-264	Sharon	1,011.88	1,003.06	NM	NM	NM	NM	NM	NM	1,001.73	1,005.01	1,006.43	1,004.86
	LL2mw-265	Sharon	961.24	951.20	NM	NM	NM	NM	NM	NM	950.76	951.39	952.69	951.91
	LL2mw-268	Sharon	1,017.28	1,002.23	NM	NM	NM	NM	NM	NM	1,001.08	1,002.32	1,003.21	1,002.26
	LL2mw-270	Sharon	1,010.18	1,000.02	NM	NM	NM	NM	NM	NM	998.65	1,002.04	1,002.98	1,000.93
	LL3mw-238	Sharon	1,006.91	989.83	991.29	992.07	990.76	992.80	992.31	988.20	989.47	NM	NM	991.01
	LL3mw-242	Sharon	999.32	980.60	984.32	985.12	981.99	986.53	986.04	981.95	980.42	NM	NM	983.16
	LL3mw-232	Sharon	1,000.41	977.49	NM	NM	NM	NM	NM	NM	977.08	979.18	982.28	980.80
	LL3mw-233	Sharon	1,004.36	977.75	NM	NM	NM	NM	NM	NM	977.36	977.96	978.56	978.08
1 1 1 : 0	LL3mw-234	Sharon	1,006.56	966.22	NM	NM	NM	NM	NM	NM	995.57	995.77	996.84	995.79
Load Line 3	LL3mw-235	Sharon	1,009.94	988.37	NM	NM	NM	NM	NM	NM	988.11	991.39	993.71	991.64
	LL3mw-237	Sharon	1,005.57	986.96	NM	NM	NM	NM	NM	NM	985.77	989.87	991.72	989.59
	LL3mw-240	Sharon	1,007.52	978.65	NM	NM	NM	NM	NM	NM	978.59	978.75	982.79	978.72
	LL3mw-241	Sharon	994.65	979.72	NM	NM	NM	NM	NM	NM	979.68	983.70	987.12	982.53
	LL3mw-243	Sharon	991.16	980.60	NM	NM	NM	NM	NM	NM	972.80	977.61	982.51	975.53
	LL4mw-198	Unconsolidated	983.42	973.60	976.61	977.54	973.99	978.02	978.07	974.09	972.68	NM	NM	975.05
	LL4mw-199	Unconsolidated	977.28	969.47	970.36	970.96	969.83	971.78	971.90	969.99	969.06	NM	NM	970.26
	LL4mw-193	Unconsolidated	982.92	974.29	NM	NM	NM	NM	NM	NM	972.69	975.47	976.72	975.60
Load Line 4	LL4mw-194	Unconsolidated	983.76	974.42	NM	NM	NM	NM	NM	NM	973.07	975.81	977.17	974.98
	LL4mw-195	Unconsolidated	982.59	971.44	NM	NM	NM	NM	NM	NM	970.92	972.02	973.34	971.77
	LL4mw-200	Unconsolidated	987.93	970.07	NM	NM	NM	NM	NM	NM	969.54	970.29	970.98	970.46
	LL5mw-001	Homewood	1,127.92	1,106.65	NM	NM	NM	NM	NM	NM	1,106.18	NM	1,109.97	1,107.73
	LL5mw-002	Homewood	1,128.68	1,106.63	NM	NM	NM	NM	NM	NM	1,106.20	NM	1,110.13	1,106.78
	LL5mw-002	Unconsolidated	1,127.70	1,106.85	NM	NM	NM	NM	NM	NM	1,106.36	NM	1,110.85	1,108.11
Load Line 5	LL5mw-004	Homewood	1,125.81	1,106.64	NM	NM	NM	NM	NM	NM	1,106.11	NM	1,110.33	1,107.66
	LL5mw-005	Homewood	1,129.42	1,106.65	NM	NM	NM	NM	NM	NM	1,106.17	NM	1,110.05	1,107.72
														1,107.68
	LL5mw-006	Homewood	1,128.00	1,106.67	NM	NM	NM	NM	NM	NM	1,106.17	NM	1,110.05	

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Table 3-3. Groundwater Elevations

			Top of Casing	Groundwater Elevation.	Groundwater	Groundwater								
			Elevation (ft,	September	March 2006	July 2006 (ft.	September	January 2007	,	July 2007 (ft,	October 2007 (ft,	,	Elevation, April	Elevation, July
RVAAP Area	Well	Monitoring Zone	amsl)	2005 (ft, amsl)	(ft, amsl)	amsl)	2006 (ft, amsl)	_	amsl)	amsl)	amsi)	amsl)	2008 (ft, amsl)	2008 (ft, amsl)
111711111111111111111111111111111111111	LL6mw-001	Unconsolidated	1,124.16	1,108.38	NM	NM	NM	NM	NM	NM	1.107.79	NM	1,113.01	1,110.24
	LL6mw-002	Unconsolidated	1,129.36	1,107.15	NM	NM	NM	NM	NM	NM	1,106.64	NM	1,111.34	1,108.17
Load Line 6	LL6mw-003	Homewood	1,125.38	1,107.98	NM	NM	NM	NM	NM	NM	1,107.51	NM	1,111.33	1,109.24
	LL6mw-004	Homewood	1,125.39	1,107.30	NM	NM	NM	NM	NM	NM	1,106.78	NM	NM	1,108.14
1 111 44	L L11mw-002	Unconsolidated	1.080.00	1,076.99	1,078.30	1.079.10	1,077.86	1,079.08	1,079.10	1.074.88	1,073.95	NM	NM	1,077.18
Load Line 11	LL11mw-007	Unconsolidated	1,082.00	1,066.26	1,068.31	1,068.66	1,067.62	1,069.00	1,068.85	1,066.18	1,065.61	NM	NM	1,067.70
	LL12mw-153	Unconsolidated	977.85	970.28	972.21	972.73	971.60	972.70	973.55	971.63	970.30	NM	NM	971.98
	LL12mw-182	Unconsolidated	984.42	971.90	975.51	975.90	974.10	976.54	976.63	973.94	971.30	NM	NM	974.81
	LL12mw-183	Sharon Shale	982.98	969.07	971.58	972.16	970.49	972.66	973.74	970.72	968.42	NM	NM	971.25
	LL12mw-186	Sharon Shale	978.31	970.92	972.91	973.25	972.28	973.73	973.48	971.21	971.02	NM	NM	972.74
	LL12mw-088	Unconsolidated	981.06	973.60	NM	NM	NM	NM	NM	NM	973.03	973.58	974.21	974.83
	LL12mw-107	Unconsolidated	980.15	969.46	NM	NM	NM	NM	NM	NM	969.02	969.27	971.25	971.32
	LL12mw-113	Sharon Shale	980.18	972.52	NM	NM	NM	NM	NM	NM	972.06	970.70	971.58	973.90
	LL12mw-128	Unconsolidated	978.24	967.51	NM	NM	NM	NM	NM	NM	967.24	968.44	968.55	968.86
	LL12mw-154	Unconsolidated	979.06	969.08	NM	NM	NM	NM	NM	NM	968.66	970.44	971.17	970.77
Load Line 12	LL12mw-184	Unconsolidated	983.16	969.47	NM	NM	NM	NM	NM	NM	968.89	970.32	971.37	971.19
	LL12mw-185	Unconsolidated	981.31	970.98	NM	NM	NM	NM	NM	NM	970.68	973.11	973.98	974.38
	LL12mw-187	Unconsolidated	979.94	968.62	NM	NM	NM	NM	NM	NM	968.02	970.54	971.55	970.88
	LL12mw-188	Unconsolidated	980.63	973.93	NM	NM	NM	NM	NM	NM	972.98	975.78	976.45	975.00
	LL12mw-189	Sharon Shale	978.04	971.97	NM	NM	NM	NM	NM	NM	970.36	974.24	966.04	972.96
	LL12mw-242	Unconsolidated	981.20	969.75	NM	NM	NM	NM	NM	NM	969.40	972.55	973.43	972.45
	LL12mw-243	Unconsolidated	980.79	970.42	NM	NM	NM	NM	NM	NM	970.86	971.04	971.74	972.37
	LL12mw-244	Unconsolidated	980.65	968.73	NM	NM	NM	NM	NM	NM	968.07	970.55	971.68	970.95
	LL12mw-245	Unconsolidated	980.04	971.20	NM	NM	NM	NM	NM	NM	970.92	971.69	971.52	972.88
	LL12mw-246	Unconsolidated	984.83	967.04	NM	NM	NM	NM	NM	NM	966.42	967.73	968.94	968.98
	BL12mw-010	Sharon	1,005.92	985.95	NM	NM	NM	NM	NM	NM	985.29	NM	991.19	988.73
Building 1200	BL12mw-011	Sharon	1,006.70	984.89	NM	NM	NM	NM	NM	NM	983.68	NM	984.77	987.38
	BL12mw-012	Sharon	1,006.32	984.75	NM	NM	NM	NM	NM	NM	983.87	NM	982.20	987.61
	CBLmw-001	Homewood	1,181.08	1,137.58	NM	NM	NM	NM	NM	NM	1,136.55	NM	1,141.78	1,140.43
C-Block Quarry	CBLmw-002	Homewood	1,175.24	1,137.15	NM	NM	NM	NM	NM	NM	1,136.21	NM	1,141.14	1,139.93
, ,	CBLmw-003	Homewood	1,175.06	1,138.38	NM	NM	NM	NM	NM	NM	1,137.36	NM	1,144.92	1,141.93
	CBLmw-004	Homewood	1,174.84	1,138.47	NM	NM	NM	NM	NM	NM	1,137.44	NM	1,142.99	1,141.25
	CBPmw-005	Unconsolidated	971.59	958.58	960.20	960.84	959.46	961.50	NM	NM	NM	NM	NM	959.61
	CBPmw-006	Unconsolidated	967.64	NM	NM	NM	NM	NM	962.01	959.70	958.32	NM	NM	959.94
	CBPmw-007	Unconsolidated	976.37	958.82	961.38	962.35	960.21	963.20	963.29	960.29	958.22	NM	NM	961.05
Central Burn Pits	CBPmw-001	Unconsolidated	975.84	961.76	NM	NM	NM	NM	NM	NM	961.17	NM	963.69	963.17
	CBPmw-002	Unconsolidated	970.04	969.81	NM	NM	NM	NM	NM	NM	958.95	NM	962.02	962.18
	CBPmw-003	Unconsolidated	974.67	961.06	NM	NM	NM	NM	NM	NM	959.89	NM	963.73	962.96
	CBPmw-004	Unconsolidated	971.13	959.35	NM NM	NM	NM NM	NM NM	NM NM	NM	958.81	NM	961.57	960.49 957.58
	CBPmw-008	Unconsolidated	973.19	956.24	NM	NM NM	NM NM	NM	NM	NM NM	956.11	NM NM	958.39	957.58 970.76
	CPmw-001	Unconsolidated	975.26	969.49			NM NM	NM			968.44		973.31	
	CPmw-002	Unconsolidated	972.31	969.84	NM NM	NM		NM	NM	NM NM	967.86	NM NM	972.31 971.65	971.32
Cobbs Pond	CPmw-003	Unconsolidated	972.92 981.20	970.89	NM	NM NM	NM NM	NM	NM NM	NM	969.48 967.70	NM	971.65	970.80 969.31
-	CPmw-004	Unconsolidated	973.58	969.10 961.48	NM	NM	NM NM	NM	NM NM	NM	967.70	NM	963.76	969.31
-	CPmw-005	Unconsolidated Unconsolidated	965.13	957.16	NM	NM	NM	NM	NM	NM	955.95	NM	953.76	962.57 956.35
	CPmw-006	Unconsolidated	900.13	957.16	IVIVI	INIVI	INIVI	INIVI	INIVI	INIVI	900.95	IVIVI	957.18	900.35

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Table 3-3. Groundwater Elevations

		T	1		T	T	Т	1	T	T	T	T	Т	1
			Ton of Cooling	O	O	Cuarra directan	0	0	0	O	One we division	C		
			Top of Casing (TOC)	Groundwater Elevation,	Groundwater Elevation,	Groundwater Elevation,	Groundwater	Groundwater						
			Elevation (ft,	September	March 2006	July 2006 (ft.	September	January 2007	1	·	October 2007 (ft,		Elevation, April	Elevation, July
RVAAP Area	Well	Monitoring Zone	amsl)	2005 (ft, amsl)	(ft, amsl)	amsl)	2006 (ft, amsl)	•	amsl)	amsl)	amsl)	amsl)	2008 (ft, amsl)	
	DET-003	Unconsolidated	1,036.81	1,031.08	1,027.53	NM	1,026.86	1,027.98	1,027.85	NM	1,026.97	NM	NM	1,027.09
	DET-004	Unconsolidated	1,038.68	NM	NM	NM	NM	NM	1,028.48	NM	1,027.57	NM	NM	1,027.75
	DA2mw-107	Unconsolidated	1,041.63	1,032.75	1,033.99	1,034.93	1,033.62	1,035.29	1,035.23	1,032.87	1,033.22	NM	NM	1,034.58
	DA2mw-104	Unconsolidated	1,073.89	1,052.89	NM	NM	NM	NM	NM	NM	1,052.19	NM	1,053.74	1,053.37
	DA2mw-105	Unconsolidated	1,045.34	1,042.01	NM	NM	NM	NM	NM	NM	1,041.64	NM	1,041.99	1,041.76
Demolition Area 2	DA2mw-106	Unconsolidated	1,043.79	1,036.16	NM	NM	NM	NM	NM	NM	1,038.12	NM	1,039.76	1,038.54
Bemonton Area 2	DA2mw-108	Unconsolidated	1,032.36	1,026.24	NM	NM	NM	NM	NM	NM	1,025.69	NM	1,027.01	1,026.16
	DA2mw-109	Unconsolidated	1,071.29	1,054.81	NM	NM	NM	NM	NM	NM	1,053.92	NM	1,059.92	1,057.52
	DA2mw-110	Unconsolidated	1,063.78	1,051.82	NM	NM	NM	NM	NM	NM	1,051.29	NM	1,057.37	1,054.85
	DA2mw-111	Unconsolidated	1,042.12	1,034.88	NM	NM	NM	NM	NM	NM	1,037.45	NM	1,037.88	1,037.86
	DA2mw-112	Unconsolidated	1,037.44	1,033.06	NM	NM	NM	NM	NM	NM	1,029.36	NM	1,030.48	1,029.62
	DA2mw-113	Unconsolidated	1,037.11	1028.96	NM	NM	NM	NM	NM	NM	1,028.32	NM	1,029.97	1,028.73
	EBGmw-123	Unconsolidated	947.82	937.80	NM	NM	NM	NM	NM	NM	936.01	NM	937.81	938.25
	EBGmw-124	Unconsolidated	941.39	937.74	NM	NM	NM	NM	NM	NM	935.86	NM	937.44	938.20
Eria Decesione	EBGmw-125	Unconsolidated	949.89	937.77	NM	NM	NM	NM	NM	NM	935.67	NM	937.33	938.17
Erie Burning	EBGmw-126	Unconsolidated	940.61	937.72	NM	NM	NM	NM	NM	NM	936.32	NM	938.59	938.32
Grounds	EBGmw-127	Unconsolidated	943.07	938.67	NM NM	NM NM	NM NM	NM	NM	NM NM	936.15	NM	938.92	936.72
	EBGmw-128 EBGmw-129	Unconsolidated	945.13 944.36	937.79 937.46	NM	NM	NM	NM NM	NM NM	NM	935.91 936.01	NM NM	938.46 939.25	938.31 938.23
		Unconsolidated	944.00	937.46	NM	NM	NM	NM	NM	NM	935.43	NM	939.25	936.23
	EBGmw-130 FBQmw-166	Unconsolidated Unconsolidated	1,108.86	1,103.55	NM	NM	NM	NM	NM	NM	1,102.53	NM	1,104.11	1,103.71
	FBQmw-167	Unconsolidated	1,115.90	1,110.70	NM	NM	NM	NM	NM	NM	1,109.69	NM	1,111.72	1,113.71
	FBQmw-168	Homewood	1,1133.91	1,110.70	NM	NM	NM	NM	NM	NM	1,120.63	NM	1,111.72	1,111.01
	FBQmw-169	Homewood	1,120.58	1,121.36	NM	NM	NM	NM	NM	NM	1,112.22	NM	1,125.12	1,121.07
-	FBQmw-170	Homewood	1,142.26	1,114.20	NM	NM	NM	NM	NM	NM	1,112.45	NM	1,128.26	1,113.70
Fuze and Booster	FBQmw-171	Homewood	1,143.55	1,124.30	NM	NM	NM	NM	NM	NM	1,122.81	NM	1,129.95	1,125.43
Quarry	FBQmw-172	Homewood	1,150.09	1,122.99	NM	NM	NM	NM	NM	NM	1,121.95	NM	1,126.51	1,124.31
Quarry	FBQmw-173	Homewood	1,165.94	1,123.86	NM	NM	NM	NM	NM	NM	1,122.64	NM	1,124.26	1,123.69
	FBQmw-174	Homewood	1,139.97	1,123.02	NM	NM	NM	NM	NM	NM	1,121.83	NM	1,127.80	1,123.95
	FBQmw-175	Homewood	1,140.73	1,122.96	NM	NM	NM	NM	NM	NM	1,121.88	NM	1,126.85	1,123.85
	FBQmw-176	Unconsolidated	1,131.91	1,121.18	NM	NM	NM	NM	NM	NM	1,120.80	NM	1,125.06	1,122.81
	FBQmw-177	Homewood	1,128.57	1,113.61	NM	NM	NM	NM	NM	NM	1,112.87	NM	1,118.17	1,115.82
	LNWmw-024	Unconsolidated	1,038.00	1,024.13	NM	NM	NM	NM	NM	NM	1,023.11	NM	1,027.58	1,025.90
Landfill North of	LNWmw-025	Unconsolidated	1,029.13	1,023.83	NM	NM	NM	NM	NM	NM	1,023.37	NM	1,025.25	1,024.17
Winklepeck	LNWmw-026	Unconsolidated	1,027.80	1,019.15	NM	NM	NM	NM	NM	NM	1,015.08	NM	1,024.25	1,022.17
·	LNWmw-027	Unconsolidated	1,027.13	1,019.51	NM	NM	NM	NM	NM	NM	1,016.99	NM	1,021.38	1,020.41
	NTAmw-107	Unconsolidated	1,080.30	1,067.18	NM	NM	NM	NM	NM	NM	1,067.00	NM	1,068.92	1,067.55
	NTAmw-108	Unconsolidated	1,085.62	1,067.51	NM	NM	NM	NM	NM	NM	1,067.28	NM	1,069.21	1,067.83
	NTAmw-109	Unconsolidated	1,079.84	1,067.46	NM	NM	NM	NM	NM	NM	1,067.11	NM	1,069.51	1,067.72
	NTAmw-110	Unconsolidated	1,082.62	1,067.65	NM	NM	NM	NM	NM	NM	1,067.42	NM	1,069.83	1,068.32
	NTAmw-111	Unconsolidated	1,080.94	1,077.13	NM	NM	NM	NM	NM	NM	1,074.39	NM	1,072.68	1,077.05
NACA Test Area	NTAmw-112	Unconsolidated	1,078.33	1,068.66	NM	NM	NM	NM	NM	NM	1,068.35	NM	1,070.57	1,069.37
INACA TESTATEA	NTAmw-113	Unconsolidated	1,075.68	1,067.91	NM	NM	NM	NM	NM	NM	1,067.57	NM	1,069.94	1,068.73
	NTAmw-114	Unconsolidated	1,078.71	1,071.46	NM	NM	NM	NM	NM	NM	1,070.71	NM	1,073.58	1,072.54
	NTAmw-115	Unconsolidated	1,089.65	1,073.85	NM	NM	NM	NM	NM	NM	1,073.20	NM	1,076.53	1,075.60
[	NTAmw-116	Unconsolidated	1,094.33	1,086.22	NM	NM	NM	NM	NM	NM	1,086.31	NM	1,089.70	1,087.98
	NTAmw-117	Unconsolidated	1,094.54	1,078.67	NM	NM	NM	NM	NM	NM	1,077.98	NM	1,081.85	1,080.89
	NTAmw-118	Unconsolidated	1,081.44	1,071.40	NM	NM	NM	NM	NM	NM	1,070.85	NM	1,073.72	1,072.67
	RQLmw-007	Sharon	965.91	959.95	958.74	NM	961.63	961.63	962.31	NM	957.81	NM	NM	960.75
	RQLmw-008	Sharon	966.08	960.06	959.14	NM	961.49	961.49	962.38	NM	958.11	NM	NM	960.88
	RQLmw-009	Sharon	964.58	959.84	958.78	NM	961.27	961.27	962.08	NM	957.85	NM	NM	960.61
Ramsdell Quarry	RQLmw-012	Sharon	977.65	955.02	NM	NM	NM	NM	NM	NM	954.11	NM	957.46	956.93
Landfill	RQLmw-013	Sharon	980.71	954.95	NM	NM	NM	NM	NM	NM	953.84	NM	955.97	956.39
Landini	RQLmw-014	Sharon	973.49	952.73	NM	NM	NM	NM	NM	NM	951.97	NM	955.16	954.46
	RQLmw-015	Sharon	991.26	960.11	NM	NM	NM	NM	NM	NM	958.94	NM	960.46	961.77
	RQLmw-016	Sharon	996.6	962.15	NM	NM	NM	NM	NM	NM	960.97	NM	961.71	962.80
	RQLmw-017	Sharon	991.23	961.50	NM	NM	NM	NM	NM	NM	960.58	NM	962.54	963.00

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Table 3-3. Groundwater Elevations

RVAAP Area	Well	Monitoring Zone	Top of Casing (TOC) Elevation (ft, amsl)	Groundwater Elevation, September 2005 (ft, amsl)	Groundwater Elevation, March 2006 (ft, amsl)	Groundwater Elevation, July 2006 (ft. amsl)	Groundwater Elevation, September 2006 (ft, amsl)	Elevation, January 2007	Groundwater Elevation, April 2007 (f,. amsl)	Elevation,	Groundwater Elevation, October 2007 (ft, amsl)	Groundwater Elevation, January 2008 (ft, amsl)	Groundwater Elevation, April 2008 (ft, amsl)	Groundwater Elevation, July 2008 (ft, amsl)
	WBGmw-006	Unconsolidated	1,014.66	1,005.56	1,008.27	1,009.56	1,006.87	1,009.76	1,009.88	1,005.40	1,004.41	NM	NM	1,006.67
	WBGmw-007	Unconsolidated	1,000.59	981.96	983.54	984.06	982.53	984.47	984.39	982.47	981.64	NM	NM	983.22
	WBGmw-009	Unconsolidated	1,047.53	1,032.50	1,035.06	1,036.02	1,033.64	1,036.77	1,037.28	1,033.03	1,031.49	NM	NM	1,033.94
	WBGmw-005	Unconsolidated	1,054.70	1047.86	NM	NM	NM	NM	NM	NM	1,046.38	NM	1,050.38	1,048.87
	WBGmw-008	Unconsolidated	1,008.21	992.58	NM	NM	NM	NM	NM	NM	991.83	NM	993.89	993.22
Winklepeck	WBGmw-010	Unconsolidated	1,069.85	1,060.85	NM	NM	NM	NM	NM	NM	1,060.07	NM	1,063.85	1,061.79
Burning Grounds	WBGmw-011	Unconsolidated	1,072.38	1,060.95	NM	NM	NM	NM	NM	NM	1,060.11	NM	1,063.43	1,061.77
Burning Grounds	WBGmw-012	Unconsolidated	1,079.11	1060.17	NM	NM	NM	NM	NM	NM	1,054.90	NM	1,060.21	1,063.50
	WBGmw-013	Unconsolidated	1,071.70	1059.71	NM	NM	NM	NM	NM	NM	1,059.04	NM	1,062.52	1,061.21
	WBGmw-014	Unconsolidated	996.78	979.48	NM	NM	NM	NM	NM	NM	978.88	NM	982.09	980.45
	WBGmw-015	Unconsolidated	1,011.60	993.9	NM	NM	NM	NM	NM	NM	996.77	NM	1,001.40	999.04
	WBGmw-016	Unconsolidated	997.03	978.51	NM	NM	NM	NM	NM	NM	978.30	NM	981.80	979.91
	WBGmw-017	Unconsolidated	1,006.62	996.5	NM	NM	NM	NM	NM	NM	995.58	NM	999.47	997.49
	MBSmw-001	Unconsolidated	1,082.20	1,064.19	NM	NM	NM	NM	NM	NM	1,064.11	NM	1,065.75	1,064.61
	MBSmw-002	Unconsolidated	1,083.22	1,064.84	NM	NM	NM	NM	NM	NM	1,064.70	NM	1,066.38	1,065.21
Suspected Mustard	MBSmw-003	Unconsolidated	1,084.45	1,065.17	NM	NM	NM	NM	NM	NM	1,065.22	NM	1,066.91	1,065.92
Agent Burial Site	MBSmw-004	Unconsolidated	1,081.80	1,064.44	NM	NM	NM	NM	NM	NM	1,064.51	NM	1,066.11	1,065.13
	MBSmw-005	Unconsolidated	1,082.42	NM	NM	NM	NM	NM	NM	NM	1,064.07	NM	1,065.70	1,064.57
	MBSmw-006	Unconsolidated	1,081.83	NM	NM	NM	NM	NM	NM	NM	1,064.03	NM	1,065.64	1,064.53

NM = Not Measured

Note: CPmw-002 was an artesian well with a negative water level.

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- Visual examination of the condition of the above-ground components of each well
  was performed. The examination included the condition of access roads to the
  well, well identification tags or markings, protective casing condition, traffic
  guard posts, protective covers and locks, protective pads, weep holes, and
  watertight inner casing caps.
- Recording of well inspection data and any maintenance needs were done using a well inspection/maintenance checklist.

The well inspections did not reveal irreparable damage to any specific monitoring wells. General well conditions include:

- Many of the outer well casings and guard posts are showing signs of rust and peeling paint. The following areas had a majority of the wells in need of painting:
  - Background Wells
  - Load Lines 5, 6, 7, 8, 9, 10
  - Atlas Scrap Yard
  - C-Block
  - Demolition Area 2
  - Landfill North of Winklepeck
  - NACA Test Area

All of the FWGWMP wells should be considered for repainting within the next 2 years.

- The vegetation around the wells was cleared in late June, early July of 2008 [the Winklepeck Burning Ground wells were not cleared of vegetation at the request of the USACE, and the immediate (<3-foot area only) around the Demolition 2 Area wells were cleared]. Access roads were passable.
- At many of the wells (e.g., BKG 20, Central Burn Pit wells, Building 1200 wells, and Winklepeck Burning Ground wells) the guard posts were missing the concrete plugs at the top of the post. This does not appear to affect the integrity or life of the posts. Additionally as presented in the attached Table 3-4 several well posts were loose and in need of concrete repair at the base.
- Overall the locks associated with the wells were in good condition with the few exceptions noted on the attached table.
- As detailed in Table 3-4 several wells had pads that were either cracked or had stability issues (wobbling). The integrity of the wells did not, however appear to be compromised.
- Table 3-4 presents a list of specific wells that have conditions potentially requiring attention. Appendix F presents the well inspection sheets.

Table 3-4. Well Inspection Summary (July 2008)

Area	Well Number	Well Condition/Issue	Recommendation
Background	BKGmw-004	Lock cap is missing.	Lock is in good working condition. No action
			at this time.
	BKGmw-006	Concrete pad cracked, although still stable.	Repair cracks with concrete patch to prevent
			infiltration.
	BKGmw-016	Concrete around one of the guard posts is broken, post is still	Well is not located in a high traffic area - there
		upright but not stable.	is no immediate danger to the well casing. Old
			concrete should be removed an new concrete
			should be installed.
Load Line 4	LL4mw-197	One of guard posts is leaning, but secure.	No action at this time.
Load Line 5	LL5mw-003	Lock cap is missing.	Lock is in good working condition. No action
			at this time.
	LL5mw-006	Lock cap is missing.	Lock is in good working condition. No action
			at this time.
Load Line 6	LL6mw-003	Lock cap is missing.	Lock is in good working condition. No action
			at this time.
	LL6mw-004	Lock cap is missing.	Lock is in good working condition. No action
			at this time.
	LL6mw-006	Lock is hard to open.	Take lock in to be repaired or replaced.
	LL6mw-007	Lock is hard to open.	Take lock in to be repaired or replaced.
Load Line 8	LL8mw-003	The steel outer casing is dented but does not appear to be	There does not appear to be any structural
		damaged. One of the guard posts has damaged concrete. The	damage to the inner casing or well - no action at
		concrete is cracked and wobbles but is still stable.	this time.
	LL8mw-005	There are cracks between the outer casing and the concrete pad.	Repair cracks with concrete patch to prevent
			infiltration.
	LL8mw-006	Concrete pad cracked, although still stable.	Repair crack with concrete patch to prevent
			infiltration.
Load Line 9	LL9mw-003	Concrete around the guard posts is broken, posts are still upright	Well is not located in a high traffic area - there
		but not stable.	is no immediate danger to the well casing. Old
			concrete should be removed an new concrete
			should be installed.
	LL9mw-007	There was no lock on the well cap.	Obtain new lock.
Load Line 10	LL10mw-004	Concrete pad cracked, although still stable.	Repair crack with concrete patch to prevent
			infiltration.
Load Line 11	LL11mw-004	1. Needs new well cap.	1.Replace well cap.
		2. Lock is hard to open.	2. Take lock in to be repaired or replaced.
	LL11mw-006	1. Needs new well cap.	1.Replace well cap.
		2. Lock is hard to open.	2. Take lock in to be repaired or replaced.

Table 3-4. Well Inspection Summary (July 2008)

Area	Well Number	Well Condition/Issue	Recommendation
Load Line 11	LL11mw-009	1.Flush-mounted well had no gasket around well cover.	1.Replace gasket.
		2. Concrete pad is not secure (wobbles). Appears to be void	2.Fill in void or replace pad.
		underneath.	3.Take lock in to be repaired or replaced.
		3. Lock is hard to open and has no gasket.	
Cobbs Pond	CPmw-003	Outer casing box was full of water. Flush-mounted well had no	EQM replaced the gasket during the inspection.
		gasket around well cover	
Detonation Area 2	DA2mw-106	Soil is eroded away from the concrete pad. Pad is stable at this	Monitor the erosion during subsequent
		time. No change from the October 2007 inspection.	inspections.
	DET-1	Concrete pad is not secure (wobbles).	Stabilize or replace pad.
	DA2mw-109	Well cap was missing.	The cap was replaced by EQM during the
			inspection.
Erie Burning Grounds	EBGmw-126	This well is consistetly under water due to low topography and	Monitor the water during subsequent
		marshy conditions. The integrity pof the pad and casing do not	inspections for signs of deterioration of the pad.
	770 0 1 <b>5</b> 1	appear to be compromised.	
Fuze and Booster Quarry	FBQmw-176	Concrete around one of the guard posts is broken. Post is stabile.	Monitor post during subsequent inspections.
Winklepeck Burning	WBGmw-012	One of the guard posts is leaning and appears to have been hit.	Post is secure. Monitor during future
Grounds			inspections.
Mustard Agent Burial Site	MBSmw-001	This well is consistetly under water due to low topography and	Monitor the water during subsequent
		marshy conditions. The integrity of the pad and casing do not	inspections for signs of deterioration of the pad.
		appear to be compromised.	
	MBSmw-004	Soil is eroded away from the concrete pad. Pad is stable at this	Monitor the erosion during subsequent
		time.	inspections.

## 3.2.2 Well Repair and Maintenance - 2008

The following well maintenance/repair activities were conducted during 2008:

 Flush-mounted wells LL6mw-001, LL6mw-006, LL6mw-007, LL11mw-002, LL11mw-003, LL11mw-004, LL11mw-005, LL11mw-006, LL11mw-008, CPmw-001, CPmw-002, and CPmw-003 had the well cover gaskets replaced.

• Locks for several wells were replaced because they were becoming difficult to open.

• Cracks in the pad at BKGmw-017 were repaired using caulk.

• The top of the outer casings at RQLmw-008, RQLmw-009 and WBGmw-005 were replaced with new square tops. The original tops had become rusted and the hinges were broken. BKGmw-021 had been identified for top replacement during the October 2007 inspections but upon further inspection it was determined that this top was stiff but not broken. No action was taken.

• The concrete pad at NTAmw109 was not secure (wobbled). The area beneath the pad was stabilized using a combination of washed pea gravel and bentonite to secure the pad. The area around the pad was then covered with native soil. Note that LL6mw-006 had also been reported as loose, but upon further inspection this pad was secure.

• The pad at LL11mw-009 had a large void (believed to be from frost heave), beneath the pad that could not be repaired by filling with bentonite/gravel. This well was repaired in late October 2007 by removing the pad and flush mount and adding a polyvinyl chloride (PVC) coupler to make this well an aboveground well. The concrete pad was then replaced. The elevation for this well was reshot for water level measurement purposes.

#### 3.3 Sedimentation/Turbidity of the Wells

Using the data obtained during the July 2008 comprehensive evaluation of all wells at RVAAP, the sediment accumulation and the description of bottom for the wells was determined. The majority of wells at RVAAP indicate a <0.20-foot accumulation of sediment with a hard well bottom indicated. Several wells indicated a >0.50-foot accumulation when compared to the original reported construction depths and most were not highly turbid wells. The correlation of well with sediment accumulation versus high turbidity has not been established. Additionally, the sediment accumulation in July 2008 versus October 2007 (i.e., the date of the last comprehensive well survey) compared to historical data has not established a correlation to a potential increase of sediment accumulation. Neither has the turbidity in these wells shown a trend of increases during the 2008 sampling events. However, due to the amount of apparent sediment

accumulation it appears that well LL2mw-060 may need to be redeveloped (+3.68-feet of sediment).

To minimize turbid samples, low flow purging and sampling techniques are used. The pumps are suspended at least one foot above the bottom of the well to avoid agitation of the sediment potentially accumulating in the well sump. High turbidity readings will continue to be monitored to determine if redevelopment and other efforts (e.g., well replacement, etc.) are needed for any affected wells.

Two wells in LL12 (mw-113 and mw-244) continue to show elevated sediment levels in the well. These wells were redeveloped prior to the July 2008 sampling event. The viscosity of the sediment in the two LL12 wells has resulted in clogging of the pumps being used to develop the wells. Additionally, LL12mw-113 is an artesian well that generally takes up to one-hour to stabilize depth to water after removing the well cap. Despite the apparent sediment accumulation in this well there is still 7.9-feet of well screen exposed. This situation will continue to be monitored to ensure that representative samples of the groundwater from this well are being collected.

#### 3.4 Summary of Groundwater Sampling Results

This was a transitional year for the FWGWMP. With the October 2007 sampling event, sampling of one set of wells was terminated and with the January 2008 sampling event sampling of previously un-sampled wells was begun. Section 1.5.1 of this report addresses the wells sampled during this reporting period. The list of FWGWMP wells monitored for the October 2007 through July 2008 events are presented in Appendix B.

#### 3.4.1 October 2007

The October 2007 FWGWMP sampling event was performed between October 8 and 11, 2007. Forty-one wells, including the 5 RCRA wells, were sampled for this event. The results of this sampling event are reported in the *Facility-Wide Groundwater Monitoring Program, Report on the October 2007 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio*, dated April 2008 (EQM). The results of this sampling event are summarized in Section 4.0 of this report.

During the October 2007 sampling event at the RVAAP the water level measurement in BKGmw-010 showed less than 5-inches of water in the well. The well was purged using a bailer in order to determine recharge of the well. There was no measurable amount of water in the well the next day. Given the insufficient volume of water necessary to fill the sample bottles this well was not sampled during the October event. It was noted that the water level in this well had decreased over the previous 3 quarters. The water level was down 4.47 feet between the April and July 2007 events, and another 3.93 feet between July and October 2007. It was also noted that this decrease in water levels was not isolated to BKG-mw010. Most of the wells at the site were down an average of 3 to 4-feet over the same time period (this includes both the bedrock and unconsolidated wells). The other

wells at the site experienced slower than normal recharge, but the remainder of the wells scheduled for the October 2007 event had adequate water volumes and were sampled.

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Reference Section 3.4.6 of this report for a discussion of water levels related to rainfall for this reporting period.

#### 3.4.2 January 2008

The January 2008 FWGWMP sampling event was performed between January 28 and 31, 2008. Thirty-two (32) wells were sampled for this event. The results of this sampling event are reported in the *Facility-Wide Groundwater Monitoring Program, Report on the January 2008 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio*, dated August 2008 (EQM). The results of this sampling event are summarized in Section 4.0 of this report.

During the January 2008 sampling event at the Ravenna Army Ammunition Plant (RVAAP) the water in the casing of LL1mw-064 well was frozen. The frozen water in the well was measured at a depth of 1.5 feet below top of casing which is approximately 1.5 feet above ground surface. The well measurement was attempted at 1000 hours Monday 28 January and the water was solid. Attempts were made to measure the water again at 1700 hours on January 28.2008 and again at 0800 hours January29, 2008, but the well water was still frozen. While the air temperature at the time of the measurements on January 28 and 29, 2008 was in the 40s° Fahrenheit (F), the daily average air temperature, as measured by the Weather Bureau, had not been above freezing since January 14, 2008. Thus freezing of water in the well casing that is above ground surface is not unexpected in the cold weather conditions encountered.

Since the forecast was for temperatures to drop below freezing, it was decided that the well water was not going to thaw during this monitoring event. R. Hockett (USACE) was contacted and it was agreed that sampling of this well would be delayed and added to the next group of wells to be sampled. When this well is next scheduled for a January sampling, provisions will be made to sample this well during warmer weather conditions that result in no ice being present in the well. Additionally, it should be noted that the freezing of the water in the well did not appear to have damaged or compromised the integrity of the well. Quarterly sampling of LL1mw-064 was initiated during the April 2008 event.

In order to maintain the current 36 wells being monitored for 2008, the next well in the monitoring well sequence table (reference the sampling sequence in Appendix G of the *FWGWMP Annual Report for 2007*) was added. This well is LL12 mw-246, which was sampled during the 2008 sampling events.

### 3.4.3 April 2008

The April 2008 FWGWMP sampling event was performed between April 7 and 16, 2008. One-hundred-thirty-six wells, including the 5 RCRA wells, were sampled for this event.

The results of this sampling event are reported in the *Facility-Wide Groundwater Monitoring Program, Report on the April 2008 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohi*o, dated November 2008 (EQM). The results of this sampling event are summarized in Section 4.0 of this report.

#### 3.4.4 July 2008

The July 2008 FWGWMP sampling event was performed between July 7 and 16, 2008. One-hundred-thirty-two wells were sampled for this event. The results of this sampling event are reported in the Draft *Facility-Wide Groundwater Monitoring Program, Report on the July 2008 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio,* dated September 2008 (EQM). The results of this sampling event are summarized in Section 4.0 of this report.

The annual facility-wide monitoring well inspection for all 237 wells was completed in conjunction with the July sampling event. The results of the well inspections and the associated potentiometric map are included in this report as discussed in Section 3.2.

#### 3.4.5 Groundwater pH

Groundwater pH values of less than 5 have been noted in several wells (i.e., LL1mw-063, LL3mw-237, LL12mw-107, B12mw-010, CBLmw-002, FBQmw-171, FBQmw-174, FBQmw-175, RQLmw-012, and RQLmw-013) over the past few sampling events. The historical purge records for these wells were reviewed. The pH readings are for these wells are presented in Table 3-5.

Table 3-5. pH Levels for Selected Wells

Well ID	January 2008 pH Range	April 2008 pH Range	July 2008 pH Range
LL1mw-063	7.41 - 7.71	5.05 - 4.23	4.64 - 4.77
LL3mw-237	6.04 - 6.19	2.64 - 3.15	6.19 – 6.76
LL12mw-107	7.05 - 7.4	3.88 - 4.59	6.12 - 6.42
B12mw-010	Not analyzed	4.32 - 4.42	4.95 - 5.51
CBLmw-002	Not analyzed	3.84 - 4.62	4.8 - 4.84
FBQmw-171	Not analyzed	4.87 - 4.88	4.84 – 4.94
FBQmw-174	Not analyzed	4.66 - 4.92	4.83 – 4.91
FBQmw-175	Not analyzed	4.35 - 4.41	5.06 – 5.09
RQLmw-012	Not analyzed	4.8 - 6.03	4.41 - 4.5
RQLmw-013	Not analyzed	4.5 - 4.51	3.54 - 3.63

The April 2008 pH measurements for LL3mw-237 and LL12mw-107 appear to be anomalous and may be due to equipment error. The pH measurements for LL1mw-063 do appear to be declining over time. This well is centrally located to previous operations at Load Line 1. No other Load Line 1 wells are exhibiting low or declining pH levels. Conditions at this well will be closely monitored during the October 2008 sampling event

to determine if this trend is continuing. The pH measured during the purging of the other wells has remained consistently at or below 5 during the sampling timeframe. This could be indicative of groundwater contamination; however a full evaluation of the conditions at these wells will be conducted once all of the wells have been sampled. Finally it should be noted that all of the referenced wells are bedrock wells, with the exception of LL12mw-107. Most are Sharon wells, which have high silica content sandstone. The Homewood wells are also a sandstone formation. High silica content results in little, if any, buffering capacity which can result in lower pH.

#### 3.4.6 Groundwater Levels

During the July and October 2007 monitoring events, which are addressed in the 2007 Annual Report, EQM determined that groundwater levels in some wells had declined significantly from April 2007 levels. EQM initiated an evaluation of conditions, which may have caused this decline. Through reviewing data available from the U.S. Department of Agriculture (USDA) and National Oceanographic and Atmospheric Administration (NOAA) it was determined that starting about June 1,2007 the RVAAP area was experiencing abnormally dry weather conditions. This condition lasted until about August 10, 2007.

Ohio EPA's Technical Guidance for Ground Water Investigations – Chapter 3 (Characterization of Site Hydrogeology) (October 2006) indicates that the fluctuation of groundwater levels are affected by groundwater recharge (i.e., infiltration to the water table) and evapotranspiration and phreatophytic consumption (i.e., utilization of groundwater by plants to sustain growth and health).

During an abnormal dry period it can be expected that the amount of recharge to groundwater will be less than "normal" and that the amount of plant use will be above "normal" resulting in abnormal (i.e., lower than "normal") groundwater levels.

For the purpose of comparison, the changes in groundwater elevation in sampled wells were determined for the Spring to Summer sampling events for 2006 and 2007. In 2006, groundwater levels in wells increased by an average of 0.79 feet (actual range was up to 2.4 feet). USDA and NOAA records indicate that the RVAAP area was not experiencing abnormally dry conditions during that time.

During the 2007 monitoring events groundwater levels in wells at RVAAP declined an average of 2.94 feet (actual range was up to 8 feet). As previously indicated USDA and NOAA record indicate that the RVAAP area was experiencing abnormally dry conditions during this time. Thus, EQM concluded that the low water levels measured in wells in 2007 were climatically controlled.

During the January 2008 monitoring event it was observed that the groundwater levels in wells at RVAAP were elevated an average of just under 2 feet from the October 2007 groundwater elevation monitoring. Significantly depressed water tables were not observed in October 2008.

#### **SECTION 4**

# SUMMARY/ASSESSMENT OF ANNUAL FWGWMP ANALYTICAL RESULTS

#### 4.1 Introduction

A summary of the constituents detected above background levels or above RLs at each of the FWGWMP wells during the 2008 reporting period is discussed in the following subsections. Table 4.1 presents the Primary Chemicals of Potential Concern at the RVAAP Facility. Samples were collected on the following dates:

- October 8 through 11, 2007
- January 28 through 31, 2008
- April 7 through 16, 2008
- July 7 through 16, 2008

A summary of all compounds detected in 2008 are presented in Tables 4-2 and 4-3. The Maximum Contaminant Levels (MCLs) are provided, where applicable, in the following sections. MCLs and United States EPA Region 9 Preliminary Remediation Goals (PRGs) are also provided where applicable in Tables 4-2 and 4-3. RVAAP facility-wide background levels are presented in Table 4-4.

Table 4.1 Primary Chemicals of Pote	ential Concern at the RVAAP Facility
Dinitrotoluene-2,4	Dinitrotoluene-2,6
Trinitrotoluene-2,4,6	RDX (cyclotrimethylenetrinitramine)
Composition B [RDX + Trinitrotoluene	HMX [high melting point explosive
(TNT)]	(octogen)]
Nitrocellulose	Nitroglycerine
Nitroguanidine	Perchlorate
Aluminum	Arsenic
Barium	Cadmium
Chromium	Lead
Mercury	Selenium
Silver	Zinc
Other Chemicals of Poten	tial Concern at the Facility
1,3,5-trinitrobenzene	1,3-Dinitrobenzene
Nitrobenzene	o-Nitrotoluene
n-nitrotoluene	p-Nitrotoluene
Manganese	VOCs
SVOCs	PCBs

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wide Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-004	Unconsolidated	Antimony	0.28 J	6	15	0
			Barium	21.9	2000	2600	82.1
			Calcium	20100	NS	NS	53100
			Iron	60 J	300	11000	279
			Magnesium	6250	NS	NS	43300
			Manganese	0.65 J	50	880	1020
			Perchlorate	0.12 J	NS	3.6	*
			Potassium	707 J	NS	NS	2890
				Sodium	15900	NS	NS
			Zinc	5.5 J	5000	11000	60.9
Background Wells	BKGmw-005	Unconsolidated	Barium	16.3	2000	2600	82.1
			Calcium	85100 J	NS	NS	53100
		Iron	251.0 J	300	11000	279	
			Magnesium	19500	NS	NS	43300
			Manganese	2.9 J	50	880	1020
			Nickel	3.6 J	NS	730	0
			Perchlorate	0.013 J	NS	3.6	
			Potassium	1230	NS	NS	2890
			Sodium	10800	NS	NS	45700
5 1 111/11	DI/ 0 00/	5 1 1	Zinc	5 J	5000	11000	60.9
Background Wells	BKGmw-006	Bedrock	Barium	16.1	2000	2600	82.1
			Calcium	69900	NS	NS	53100
			bis(2-Ethylhexyl) phthalate	1.8 J	NS	4.8	ı î
			delta-BHC	0.025 J	NS	NS	070
			Iron	742 J	300	11000	279
			Magnesium	21800	NS	NS	43300
			Manganese	191 J	50	880	1020
			Perchlorate	0.02 J	NS	3.6	2000
			Potassium	2170	NS	NS	2890
Dooleground Wollo	DI/Communication	Dadraak	Sodium	43600	NS	NS 1F	45700
Background Wells	BKGmw-008	Bedrock	Antimony	0.26 J	6	15	0 256
			Barium	4.7 J 24700	2000 NS	2600 NS	53100
			Calcium				
			Iron	64.2 J 9750	300 NS	11000 NS	1430 15000
			Magnesium	29.1 J	50	880	1340
			Manganese Perchlorate	0.028 J	NS	3.6	1340
			Potassium	511 J	NS	NS	5770
			Sodium	8760	NS	NS	51400
			Zinc	6.4 J	5000	11000	52.3
Background Wells	BKGmw-010	Bedrock	Aluminum	117	200	36000	0
Dackground Wells	DKGIIIW-010	Deurock	Barium	18.6	2000	2600	256
			Beryllium	0.13 J	4	NS	0
			Cadmium	0.13 J 0.12 J	5	NS	0
			Calcium	11100	NS	NS	53100
			Iron	84.9	300	11000	1430
			Magnesium	14200	NS	NS	15000
			Manganese	509	50	880	1340
			Nickel	78.4	100	730	83.4
			Potassium	70.4	NS	NS	5770
			Sodium	3800	NS	NS	51400
			Tetryl	0.71 J	NS	360	*
			Zinc	14.7	5000	11000	52.3
		LIIIC	14./	5000	11000	JZ.J	

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or	October 2007		Region 9	Facility-Wide
			Element	Level	MCL	PRG	Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-012	Bedrock	Aluminum	27.2 J	200	36000	0
			Barium	245	2000	2600	256
			beta-BHC	0.026 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	1.5 J	NS	4.8	*
			Calcium	26900	NS	NS	53100
			Iron	142	300	11000	1430
			Magnesium	9320	NS	NS	15000
			Manganese	37	50	880	1340
			Nickel	3.3 J	NS	730	83.4
			Potassium	4050 J	NS	NS	5770
			Sodium	45300	NS	NS	51400
			Zinc	7.5 J	5000	11000	52.3
Background Wells	BKGmw-013	Unconsolidated	Arsenic	11.4	10	0.007	11.7
			Barium	89.4	2000	2600	82.1
			Calcium	76300	NS	NS	115000
			Iron	844	300	11000	279
			Magnesium	26100	NS	NS	43300
			Manganese	417	50	880	1020
			Potassium	1970 J	NS	NS	2890
			Sodium	13100	NS	NS	45700
			Zinc	5.1 J	5000	11000	60.9
Background Wells	BKGmw-015	Bedrock	Barium	281	2000	2600	256
			Calcium	30700	NS	NS	53100
			Iron	95.7 J	300	10000	1430
			Magnesium	13000	NS	NS	15000
			Manganese	11 J	50	880	1340
			Nickel	3.7 J	100	730	83.4
			Potassium	4670	NS	NS	5770
			Sodium	12500	NS	NS	51400
			Zinc	14.2	5000	11000	52.3
Background Wells	BKGmw-016	Unconsolidated	Aluminum	24.7 J	200	36000	0
Baokgrouna Wono	5	Citodilodilaatoa	Barium	14.1	2000	2600	82.1
			beta-BHC	0.0093 J	NS	0.037	*
			Calcium	9190	NS	NS	115000
			Iron	28.3 J	300	10000	279
			Magnesium	4050	NS	NS	43300
			Manganese	8.2 J	50	880	1020
			Perchlorate	0.057 J	NS	3.6	*
			Potassium	576 J	NS	NS	2890
			Sodium	2690	NS	NS	45700
			Zinc	4.5 J	5000	11000	60.9
Background Wells	BKGmw-017	Unconsolidated	Aluminum	41.6 J	200	3600	0
Duonground Wells	DICONW-017	Shoonsonaaca	Arsenic	20.2	10	0.007	11.7
			Barium	33.8	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	4.3 J	NS	4.8	VZ.1
			Calcium	100000	NS	NS	115000
			Iron	1780	300	10000	279
				42800	NS	NS	43300
			Magnesium				
			Manganese	213 1990 J	50 NS	880 NS	1020
			Potassium				2890
			Sodium	21400	NS	NS 11000	45700
			Zinc	4.9 J	5000	11000	60.9

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wide Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Background Wells	BKGmw-018	Bedrock	Barium	19.5	2000	2600	256
Background Wens	Ditolliw 010	Bourock	bis(2-Ethylhexyl) phthalate	1.4 J	NS	4.8	*
			Calcium	55700	NS	NS	53100
			Iron	141 J	300	10000	1430
			Magnesium	6480	NS	NS	15000
			Manganese	13 J	50	880	1340
			Nitrocellulose	0.23 J	NS	NS	*
			Perchlorate	0.23 J	NS	3.6	*
			Potassium	1070	NS	NS	5770
			Sodium	2350	NS	NS NS	51400
					5000	11000	
Doolearound Wollo	DI/C==== 010	Unaanaalidatad	Zinc	3.5 J			52.3
Background Wells	BKGmw-019	Unconsolidated	Barium	41.9	2000	2600	82.1
			beta-BHC	0.0073 J	NS	0.037	445000
			Calcium	112000	NS	NS	115000
			Iron	551 J	300	10000	279
			Magnesium	32400	NS	NS	43300
			Manganese	189 J	50	880	1020
			Potassium	1110	NS	NS	2890
			Sodium	9120	NS	NS	45700
			Zinc	2.9 J	5000	11000	60.9
Background Wells	BKGmw-020	Bedrock	Barium	130	2000	2600	256
			beta-BHC	0.013 J	NS	0	*
			Calcium	51800	NS	NS	53100
			Iron	2390 J	300	10000	1430
			Magnesium	16300	NS	NS	15000
			Manganese	756 J	50	880	1340
			Nitrobenzene	0.071 J	NS	3	*
			Potassium	2390	NS	NS	5770
			Sodium	7820	NS	NS	51400
			Zinc	5 J	NS	1100	52.3
Background Wells	BKGmw-021	Unconsolidated	Barium	43.4	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	0.89 J	NS	4.8	*
			Calcium	79900	NS	NS	115000
			Iron	204 J	300	10000	279
			Magnesium	453000	NS	NS	43300
			Manganese	0.64 J	50	880	1020
			Perchlorate	0.078 J	NS	3.6	*
			Potassium	1420	NS	NS	2890
			Sodium	9400	NS	NS	45700
			Zinc	10.7	5000	11000	60.9
Load Line 1	LL1mw-078	Bedrock	Aluminum	69.8 J	200	36000	0
			Antimony	0.2 J	6	15	0
			Barium	16.3	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	1.8 JB	NS	4.8	*
			Calcium	47400	NS	NS	115000
			Cobalt	2 J	NS	730	0
			Iron	158	300	11000	279
			Magnesium	8980	NS	NS	43300
			Manganese	120	50	880	1020
			Nickel	6.8 J	NS	730	83.4
			Perchlorate	0.068 J	NS	3.6	*
			Potassium	3340 J	NS	NS	2890
			Sodium	4610	NS	NS	45700
			Thallium	0.33 J	2	2	0
						1	
			Zinc	6.3 J	5000	11000	60.9

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wi Backgrour
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 1	LL1mw-080	Bedrock	2,4-Dinitrotoluene	0.45 J	NS	73	*
			2,6-Dinitrotoluene	0.49 J	NS	36	*
			2-Amino-4,6-dinitrotoluene	4.5	NS	NS	*
			4-Amino-2,6-Dinitrotoluene	4.3	NS	NS	*
			Barium	19.1	2000	2600	82.1
			Calcium	298000	NS	NS	115000
			HMX	7.9	NS	1800	*
			Iron	685	300	11000	279
			Magnesium	14800	NS	NS	43300
				56.1	50	880	1020
			Manganese				
			Nickel	4.8 J	NS	730	83.4
			Perchlorate	0.012 J	NS	3.6	
			Potassium	4110	NS	NS	2890
			RDX	38	NS	0.61	*
			Sodium	1960	NS	NS	45700
			Toluene	0.22 J	1000	720	0
			Zinc	3.9 J	5000	11000	60.9
Load Line 1	LL1mw-083	Bedrock	1,3,5-Trinitrobenzene	9.2 J	NS	1100	*
			2,4,6-Trinitrolouene	9.2 J	NS	2	*
			2,4-Dinitrotoluene	5.2 J	NS	73	*
			2,4-Dinitrotoluene	3.6 J	NS	73	*
			2,6-Dinitrotoluene	2.2 J	NS	36	*
			2.6-Dinitrotoluene	1.6 J	NS	36	*
			2-Amino-4,6-dinitrotoluene	22	NS	NS	*
			4-Amino-2,6-Dinitrotoluene	24	NS	NS	*
			Aluminum	989.0 J	200	36000	0
			Antimony	0.2 J	6	15	0
			Barium	18.3	2000	2600	82.1
			Beryllium	0.24 J	4	NS	0
			bis(2-Ethylhexyl) phthalate	1.7 JB	NS	4.8	*
			Cadmium	0.78	5	NS	0
			Calcium	18800	NS	NS	115000
			Cobalt	14	NS	730	0
			Copper	4.6 J	1300	1500	0
			Iron	90.4	300	11000	279
			Magnesium	5070	NS	NS	43300
			Manganese	765	50	880	1020
			Nickel	43.6	NS	730	83.4
			Perchlorate	0.025 J	NS	3.6	*
			Potassium	2340 J	NS	NS	2890
			RDX	0.6 J	NS	0.61	*
							45700
			Sodium	18500	NS	NS	45700
1411 0	110- 050	Ded 1	Zinc	45.8	5000	11000	60.9
Load Line 2	LL2mw-059	Bedrock	1,3,5-Trinitrobenzene	4.1	NS	1100	
			2,4,6-Trinitrolouene	0.15	NS	2	*
			2,4-Dinitrotoluene	0.08 J	NS	73	*
			2,4-Dinitrotoluene	0.64 J	NS	73	*
			2,6-Dinitrotoluene	0.86	NS	36	*
			2-Amino-4,6-dinitrotoluene	1	NS	NS	*
			4-Amino-2,6-Dinitrotoluene	0.97	NS	NS	*
			Aluminum	10.7 J	200	36000	0
			Barium	5.4 J	2000	2600	82.1
			beta-BHC	0.021 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	1.7 JB	NS	4.8	*
			Calcium	23400	NS	NS	115000
			HMX	0.14 J	NS	1800	*
							270
			Iron	71.7	300	11000	279
		1	Magnesium	8960	NS	NS	43300
			TIMISHUSHOCO	136	50	880	1020
			Manganese				
			Nickel	5.9 J	NS	730	83.4
			Nickel Perchlorate	0.012 J	NS	3.6	*
			Nickel Perchlorate Potassium	0.012 J 748.0 J	NS NS	3.6 NS	2890
			Nickel Perchlorate	0.012 J	NS	3.6	*

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wide Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 2	LL2mw-262	Bedrock	Barium	19.4	2000	2600	82.1
			beta-BHC	0.011 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	1.6 JB	NS	4.8	*
			Calcium	55400	NS	NS	115000
			Cobalt	5	NS	730	0
			HMX	0.27 J	NS	1800	*
			Iron	159	300	11000	279
			Magnesium	37800	NS	NS	43300
			Manganese	922	50	880	1020
			Nickel	23.3	NS	730	83.4
			Perchlorate	0.061 J	NS	3.6	*
			Potassium	2080 J	NS	NS	2890
			Sodium	8430	NS	NS	45700
			Zinc	4.9 J	5000	11000	60.9
Load Line 2	LL2mw-263	Bedrock	Arsenic	16.8	10	0	11.7
Loud Line 2	200	Bourock	Barium	27	2000	2600	82.1
			beta-BHC	0.007 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	3.9 JB	NS	4.8	*
			Calcium	37500	NS	NS	115000
			Cobalt	3 J	NS	730	0
			Iron	5140	300	11000	279
			Magnesium	16900	NS	NS	43300
			Manganese	1590	50	880	1020
			Nickel	7 J	NS	730	83.4
			Potassium	822 J	NS	NS	2890
			Sodium	5130	NS	NS	45700
			Zinc	2.8 J	5000	11000	60.9
Load Line 3	11.2mu 220	Podrock	1,3-Dinitrobenzene	42.0 J	NS	3.6	*
Luau Line 3	LL3IIIW-230	LL3mw-238 Bedrock	2,4-Dinitrotoluene	96.0 J	NS	73	*
			2-Nitrotoluene	13.0 J	NS	110	*
			4-Nitrotoluene	37.0 J	NS	3.2	*
			Aluminum	16.5 J	200	36000	0
			Barium	6.7 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	1.4 JB	NS	4.8	VZ.1
			Calcium	38800	NS	NS	115000
			Iron	123.0	300	11000	279
			Magnesium	4260	NS	NS	43300
			Manganese	1.9 J	50	880	1020
			Perchlorate	0.15	NS	3.6	1020
			Potassium	1920 J	NS	NS	2890
			RDX	6.6 J	NS	0.61	2070
			Sodium	2320	NS	NS	45700
							60.9
Load Line 3	LL3mw-242	Bedrock	Zinc Aluminum	4.1 J 16.2 J	5000 200	11000 36000	00.9
Luau Line 3	LL3IIIW-242	Deurock	Barium	4.3 J	2000	2600	82.1
					NS		0Z.1 *
			beta-BHC bis(2-Ethylhexyl) phthalate	0.012 J 3.4 JB	NS	0.037 4.8	*
			Calcium			4.8 NS	
			Carbon disulfide	<i>18000</i> 0.58 J	NS NS	1000	115000
							270
			Iron Magnesium	37.2	300	11000	279
			Magnesium	7210	NS	NS	43300
			Manganese	25.1	50 NC	880	1020
			Perchlorate	0.0099 J	NS	3.6	
			Potassium	1060 J	NS	NS	2890
			Sodium	14200	NS	NS	45700
	1	Zinc	4.5 J	5000	11000	60.9	

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wide
A = 0.0	Wall Number	Monitored 7ene	Detected			_	Background
Area	Well Number LL4mw-198	Monitored Zone Unconsolidated	Aluminum	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 4	LL4111W-190	Unconsolidated	Barium	22.0 J 15.3	200 2000	36000 2600	82.1
			Calcium	34400	NS NS	NS	115000
			Iron	4330	300	11000	279
			Magnesium	15600	NS	NS	43300
			Manganese	1460	50	880	1020
			Nickel	46.9	NS	730	0
			Potassium	1240	NS	NS	2890
			Sodium	10200	NS	NS	45700
			Zinc	91.5	5000	11000	60.9
Load Line 4	LL4mw-199	Unconsolidated	Aluminum	12.4 J	200	36000	0
			Arsenic	10.8	10	0	11.7
			Barium	126	2000	2600	82.1
			beta-BHC	0.02 J	NS	0.037	*
			Calcium	98900	NS	NS	115000
			Iron	4910	300	11000	279
			Magnesium	24300	NS	NS	43300
			Manganese	636	50	880	1020
			Potassium	1540	NS	NS	2890
			Sodium	10500	NS	NS	45700
			Zinc	4.9 J	5000	11000	60.9
Load Line 11	LL11mw-002	Unconsolidated	alpha-Chordane	0.015 J	NS	NS	*
			Aluminum	556 J	200	36000	0
			Antimony	0.3 J	6	15	0
			Barium	31.8	2000	2600	82.1
			Cadmium	0.18 J	5	NS	0
			Calcium	88100	NS	NS	115000
			Iron	1310 J	300	11000	279
			Magnesium	29100	NS	NS	43300
			Manganese	191	50	880	1020
			Nickel	3.7 J	NS	730	0
			Perchlorate	0.0094 J	NS	3.6	*
			Potassium	1640	NS	NS	2890
			Sodium	9960	NS	NS	45700
			Vanadium	1.3 J	NS	36	0
			Zinc	21.6	5000	11000	60.9
Load Line 11	LL11mw-007	Unconsolidated	Arsenic	23.1	10	0	11.7
			Barium	94.5	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	4 JB	NS	4.8	*
			Calcium	95300	NS	NS	115000
			Iron	1350	300	11000	279
			Magnesium	34000	NS	NS	43300
			Manganese	224	50	880	1020
			Perchlorate	0.2	NS	3.6	2000
		Potassium	1430 J	NS	NS	2890	
			Sodium	14200	NS	NS 11000	45700
			Sodium Zinc	14200 3.9 J	5000	11000	60.9
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony	14200 3.9 J 0.2 J	5000 6	11000 15	60.9
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic	14200 3.9 J 0.2 J 24.6	5000 6 10	11000 15 0	60.9 0 11.7
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium	14200 3.9 J 0.2 J 24.6 79.4	5000 6 10 2000	11000 15 0 2600	60.9
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC	14200 3.9 J 0.2 J 24.6 79.4 0.01 J	5000 6 10 2000 NS	11000 15 0 2600 0.04	60.9 0 11.7 82.1
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium	14200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000	5000 6 10 2000 NS NS	11000 15 0 2600 0.04 NS	60.9 0 11.7
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium HMX	14200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000 0.052 J	5000 6 10 2000 NS NS NS	11000 15 0 2600 0.04 NS 1800	60.9 0 11.7 82.1 * 115000
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium HMX Iron	14200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000 0.052 J 4180	5000 6 10 2000 NS NS NS 300	11000 15 0 2600 0.04 NS 1800 11000	60.9 0 11.7 82.1 * 115000 279
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium HMX Iron Magnesium	74200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000 0.052 J 4180 80500	5000 6 10 2000 NS NS NS NS NS	11000 15 0 2600 0.04 NS 1800 11000 NS	60.9 0 11.7 82.1 * 115000 * 279 43300
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium HMX Iron Magnesium Manganese	14200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000 0.052 J 4180 80500 206	5000 6 10 2000 NS NS NS NS 300 NS	11000 15 0 2600 0.04 NS 1800 11000 NS 880	60.9 0 11.7 82.1 * 115000 * 279
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium HMX Iron Magnesium Manganese Nitrate-Nitrite	14200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000 0.052 J 4180 80500 206 0.02 J	5000 6 10 2000 NS NS NS 300 NS 50	11000 15 0 2600 0.04 NS 1800 11000 NS 880	60.9 0 11.7 82.1 
Load Line 12	LL12mw-153	Unconsolidated	Sodium Zinc Antimony Arsenic Barium beta-BHC Calcium HMX Iron Magnesium Manganese	14200 3.9 J 0.2 J 24.6 79.4 0.01 J 147000 0.052 J 4180 80500 206	5000 6 10 2000 NS NS NS NS 300 NS	11000 15 0 2600 0.04 NS 1800 11000 NS 880	60.9 0 11.7 82.1 * 115000 * 279 43300

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wid Backgroun
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 12	LL12mw-182	Unconsolidated	Arsenic	40.5	10	0	11.7
			Barium	72.4	2000	2600	82.1
			beta-BHC	0.019 J	NS	0.04	*
			bis(2-Ethylhexyl) phthalate	3 J	NS	4.8	*
			Calcium	81500	NS	NS	115000
			HMX	0.066 J	NS	1800	*
			Iron	1100	300	11000	279
			Magnesium	65300	NS	NS	43300
			Manganese	56.1	50	880	1020
			Methoxychlor	0.01 J	40	180.00	*
		Potassium	3230	NS	NS	2890	
			Sodium	25500	NS	NS	45700
			Zinc	3.1 J	5000	11000	60.9
Lood Line 12	1112mu 102	Unaanaalidatad					
Load Line 12	LL12mw-183	Unconsolidated	Antimony	0.2 J	6	15	0
			Arsenic	34.9	10	0	11.7
			Barium	78.1	2000	2600	82.1
			Calcium	120000	NS	NS	115000
			Carbon disulfide	0.47 J	NS	1000	*
			Chromium	5.6 J	100	NS	0
			Iron	1460	300	11000	279
			Magnesium	48400	NS	NS	43300
			Manganese	74.6	50	880	1020
			Nickel	5.1 J	NS	730	0
			Nitrate-Nitrite	0.02 J	10000	1000	*
			Potassium	3470	NS	NS	2890
			Sodium	18100	NS	NS	45700
			Zinc	3.9 J	5000	11000	60.9
Load Line 12	LL12mw-186	Unconsolidated	Barium	45.9	2000	2600	82.1
Load Line 12	LL 12111W-100	EL 1211W 100 Onconsolidated	beta-BHC	0.014 J	NS	0.04	*
			bis(2-Ethylhexyl) phthalate	2.2 JB	NS	4.8	*
						NS	115000
			Calcium	134000	NS		115000
			Iron	861	300	11000	279
			Magnesium	59100	NS	NS	43300
			Manganese	347	50	880	1020
			Nitrate-Nitrite	0.6	10000	1000	*
			Potassium	1450 J	NS	NS	2890
			Sodium	15200	NS	NS	45700
			Zinc	4.3 J	5000	11000	60.9
Load Line 12	LL12mw-187	Unconsolidated	Nitrate-Nitrite	1600	10000	1000	*
			Perchlorate	0.025 J	NS	3.6	*
Central Burn Pits	CBPmw-006	Unconsolidated	Aluminum	11800	200	36000	0
			Antimony	0.1 J	6	15	0
			Arsenic	34.3	10	0	11.7
			Barium	212	2000	2600	82.1
			Beryllium	1.1	4	NS	0
			bis(2-Ethylhexyl) phthalate	0.91 J	NS	4.8	*
			Calcium	76700	NS	NS	115000
			Chromium	36.7	100	NS	0
	1		Cobalt	17 J	NS	730	0
		Cobait		1300	1500	0	
			Connor				
			Copper	21.2			*
			HMX	0.053 J	NS	1800	*
			HMX Iron	0.053 J 27400	NS 300	1800 11000	279
			HMX Iron Lead	0.053 J 27400 12	NS 300 15	1800 11000 NS	279 0
			HMX Iron Lead Magnesium	0.053 J 27400 12 31900	NS 300 15 NS	1800 11000 NS NS	279 0 43300
			HMX Iron Lead Magnesium Manganese	0.053 J 27400 12 31900 466	NS 300 15 NS 50	1800 11000 NS NS 880	279 0 43300 1020
			HMX Iron Lead Magnesium	0.053 J 27400 12 31900 466 37.8	NS 300 15 NS 50 NS	1800 11000 NS NS 880 730	* 279 0 43300 1020
			HMX Iron Lead Magnesium Manganese	0.053 J 27400 12 31900 466 37.8 0.071 J	NS 300 15 NS 50 NS	1800 11000 NS NS 880	* 279 0 43300 1020 0 *
			HMX Iron Lead Magnesium Manganese Nickel	0.053 J 27400 12 31900 466 37.8	NS 300 15 NS 50 NS	1800 11000 NS NS 880 730	* 279 0 43300 1020
			HMX Iron Lead Magnesium Manganese Nickel Nitrobenzene	0.053 J 27400 12 31900 466 37.8 0.071 J	NS 300 15 NS 50 NS	1800 11000 NS NS 880 730	* 279 0 43300 1020 0 *
			HMX Iron Lead Magnesium Manganese Nickel Nitrobenzene Perchlorate	0.053 J 27400 12 31900 466 37.8 0.071 J 0.13	NS 300 15 NS 50 NS NS NS	1800 11000 NS NS 880 730 3	* 279 0 43300 1020 0 *
			HMX Iron Lead Magnesium Manganese Nickel Nitrobenzene Perchlorate Potassium	0.053 J 27400 12 31900 466 37.8 0.071 J 0.13 7950 J	NS 300 15 NS 50 NS NS NS	1800 11000 NS NS 880 730 3 3.6 NS	279 0 43300 1020 0 *

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wide Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Central Burn Pits	CBPmw-007	Unconsolidated	Arsenic	36.8	10	(ug/L)	11.7
Contrai Bani i its	0DI IIIW 007	Onconsolidated	Barium	10.5	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	1.2 J	NS	4.8	*
			Calcium	224000	NS	NS	115000
			Carbon disulfide	0.52 J	NS	1000	*
			Cobalt	3 J	NS	730	0
			Iron	4290	300	11000	279
			Magnesium	120000	NS	NS	43300
			Manganese	228	50	880	1020
			Nickel	4.5 J	NS	730	0
				4510	NS	NS	2890
			Potassium			NS	
			Sodium	100000	NS		45700
D	DA2 107	I la consellata d	Zinc	2.5 J	5000	11000	60.9
Demolition Area 2	DA2mw-107	Unconsolidated	Arsenic	6.4	10	0	11.7
			Barium	37.8	2000	2600	82.1
			Calcium	91100	NS	NS	115000
			Iron	1800	300	11000	279
			Magnesium	30400	NS	NS	43300
			Manganese	203	50	880	1020
			Potassium	1770 J	NS	NS	2890
			Sodium	10700	NS	NS	45700
			Zinc	2.5 J	5000	11000	60.9
Demolition Area 2	DETmw-003	Unconsolidated	Arsenic	12.4	10	0	11.7
			Barium	55.4	2000	2600	82.1
			Calcium	92800	NS	NS	115000
			Iron	1960	300	11000	279
			Magnesium	34000	NS	NS	43300
			Manganese	294	50	880	1020
			Potassium	1830 J	NS	NS	2890
			Sodium	13100	NS	NS	45700
			Zinc	3 J	5000	11000	60.9
Demolition Area 2	DETmw-004	Unconsolidated	Barium	49.4	2000	2600	82.1
			beta-BHC	0.017 J	NS	0.04	*
			bis(2-Ethylhexyl) phthalate	4.9 J	NS	4.8	*
			Calcium	138000	NS	NS	115000
			HMX	0.93	NS	1800	*
			Iron	396.0	300	11000	279
			Magnesium	27600	NS	NS	43300
			Manganese	12.7	50	880	1020
			Potassium	1750 J	NS	NS	2890
			Sodium	5230	NS	NS	45700
			Zinc	46.3 J	5000	11000	60.9
Ramsdell	RQLmw-007	Bedrock	Aluminum	15.3 J	200	36000	0
Quarry Landfill	,		Arsenic	51.4	10	0	11.7
seeing Landini			Barium	55.7	2000	2600	82.1
			beta-BHC	0.0098 J	NS	0.037	*
			Calcium	140000	NS	NS	115000
			Cobalt	6.9 J	NS	730	0
			Iron	20800	300	11000	279
			Magnesium	106000	NS	NS	43300
			Manganese	2730	50	880	1020
			Nickel	12.3	NS	730	83.4
			Potassium	8750	NS	NS	2890
			Sodium	10400	NS	NS	45700
		1	Zinc	13.4	5000	11000	60.9

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or Element	October 2007 Level	MCL	Region 9 PRG	Facility-Wide Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Ramsdell	RQLmw-008	Bedrock	1,3,5-Trinirobenzene	0.41 J	10	0	11.7
Quarry Landfill			Arsenic	61.2	10	0	11.7
			Barium	173	2000	2600	82.1
			beta-BHC	0.035 J	NS	0.037	*
			Beryllium	0.77 J	4	NS	0
			Calcium	84800	NS	NS	115000
			Cobalt	5.3 J	NS	730	0
			Iron	141000	300	11000	279
			Magnesium	36700	NS	NS	43300
			Manganese	1280	50	880	1020
			Methoxychlor	0.055 J	40	180	*
			Nickel	17.6	NS	730	83.4
			Potassium	6990	NS	NS	2890
			Silver	2.2 J	100	180	0
			Sodium	19700	NS	NS	45700
			Toxaphene	0.64 J	3	0.061	*
			Vanadium	1.3 J	NS	36	0
			Zinc	6.6 J	5000	11000	60.9
Ramsdell	RQLmw-009	Bedrock	Arsenic	36	10	0	11.7
Quarry Landfill			Barium	62.5	2000	2600	82.1
•			beta-BHC	0.0092 J	NS	0.037	*
			Calcium	33900	NS	NS	115000
			Cobalt	5.4 J	NS	730	0
			Iron	17500	300	11000	279
			Magnesium	52000	NS	NS	43300
			Manganese	2400	50	880	1020
			Nickel	6 J	NS	730	83.4
			Potassium	5120	NS	NS	2890
			Sodium	2480	NS	NS	45700
			Thallium	0.15 J	2	2	0
			Zinc	3.6 J	5000	11000	60.9
Winklepeck	WBGmw-006	Unconsolidated	Barium	24.1	2000	2600	82.1
Burning			Calcium	64400	NS	NS	115000
Ground			HMX	13	NS	1800	*
			Iron	193	300	11000	279
			Magnesium	21300	NS	NS	43300
			Manganese	56	50	880	1020
			Perchlorate	0.032 J	NS	3.6	*
			Potassium	820 J	NS	NS	2890
			RDX	58	NS	0.61	*
			Sodium	5970	NS	NS	45700
Winklepeck	WBGmw-007	Unconsolidated	Arsenic	4.5 J	10	0	11.7
Burning			Barium	39.7	2000	2600	82.1
Ground			Calcium	66100	NS	NS	115000
			Cyanide	0.01 J	0.2	730	*
			Iron	427	300	11000	279
			Magnesium	17900	NS	NS	43300
			Manganese	130	50	880	1020
			Potassium	1150 J	NS	NS	2890
			Sodium	5030	NS	NS	45700
			Zinc	3.2 J	5000	11000	60.9

Table 4-2. Summary of Constituents Detected - October 2007

			Compound or	October 2007		Region 9	Facility-Wide
			Element	Level	MCL	PRG	Background
Area	Well Number	Monitored Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Winklepeck	WBGmw-009	Unconsolidated	Antimony	0.24 J	6	15	0
Burning			Barium	14	2000	2600	82.1
Ground			Calcium	78300	NS	NS	115000
			HMX	2.1	NS	1800	*
			Iron	244	300	11000	279
			Magnesium	24200	NS	NS	43300
			Manganese	12.3	50	880	1020
			Potassium	878 J	NS	NS	2890
			RDX	8.5	NS	0.61	*
			Sodium	4080	NS	NS	45700
			Zinc	2.4 J	5000	11000	60.9

Notes:

NS = no standard NT = not tested

All inorganics are filtered, all organics are not filtered

J = estimated result. Results have been qualified "J" For more details refer to Data Verification/Validation Reports in

in the FWGWMP October 2007 and January, April and July 2008 Sampling Reports

R = Rejected data

U = analyzed but not detected at or above the reporting limit

Bold = inorganic constituent detected above Facility-Wide background levels

Italics = inorganic constituent detected below the Facility-Wide background levels

Shaded boxes indicate any contituent, which does not have a background value, detected above the reporting limit.

<sup>\*</sup> There are no background levels for organic constituents

Table 4-3. Summary of Constituents Detected - January, April and July 2008

Well   Monthord   Element   Level   Level   Month   PRG   Backgroun   Loud line				Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wide
Land Lime   1   Litime-063   Bedrack   1.3 - Frintendename   0.0062   1   0.0062   1   0.006   NS   NS   1.100	_									Background
1.3 Deminoberszerie   0.11 U   0.11 U   0.082 J   NS   NS   2.2     2.4 Deminoteleme   0.13 U   0.013   0.22   0.96   NS   2.2   2.2     2.4 Deminoteleme   0.13 U   0.02 U   0.96   NS   2.2   2.5     2.4 Deminoteleme   0.19   0.09 U   19   NS   NS   3.5     2.4 Deminoteleme   0.19   0.09 U   19   NS   NS   NS   1.5     2.4 Deminoteleme   0.10 U   0.09 U   19   NS   NS   NS   1.5     2.4 Deminoteleme   0.11 U   0.09 U   19   NS   NS   NS   NS   1.5     2.4 Deminoteleme   0.11 U   0.09 U   19   NS   NS   NS   1.5     2.5 Deminoteleme   0.11 U   0.09 U   19   NS   NS   NS   0.00     2.5 Deminoteleme   0.10 U   0.09 U   19   NS   NS   NS   0.00     2.5 Deminoteleme   0.10 U   0.00 U   0.00 U   NS   0.00 U										(ug/L)
2.6 FMT	road rille i	LL IIIIW-003	Bedrock							*
2.4 Distributioners   0.13										*
2.6 Distrotoubene										*
Particular   Par										*
Alaminum				2-Amino-4,6-dinitrotoluene	0.69			NS	NS	*
Bartum   232   259   241   2000   2600   2500   250				4-Amino-2,6-Dinitrotoluene	0.11 U	3.2	6.4	NS	NS	*
bela BHC				Aluminum	460	325	237	200	36000	0
Discipit Physiology phtholate										256
Cadmium										*
Calcium										*
Coball   122										
Copper										
Magnesim										
HMX										*
Magnesian   348   3890   3510   NS   NS   15000										*
Manganese   56.4   288   251   50   880   1340     Nickel   10   10   20.3   20.2   10.7     Perchorate   NT NT NT   0.021 J NS 3.6     Perchorate   NT NT NT   0.021 J NS NS   5770     RIX										15000
Nickel   10 U   203 J   207 NS   730   834										
Polassium					10 U	20.3 J	20.7	NS	730	83.4
RDX				Perchlorate	NT	NT	0.021 J	NS	3.6	*
Sodium				Potassium			1300 J	NS		5770
Load Line   LLTmw-064						0.54				*
Lead Line 1										
Barium										
Bis/E-Ethyhexyl) phihalate   NT   10 U   1 J NS   4.8   1.	Load Line 1	LL1mw-064	Unconsolidated							
Calcium										82.1
Cyanide										115000
Iron										*
Magnesium										270
Manganese										
Potassium										
Load Line 1										
Barium   58.6   58.4   50.5   2000   2600   82.1										
bis(2-Ethylnexyl) phthalate   8.6 J   10 U   8 J   NS   4.8   Calcium   8/300   8/3400   8/3400   NS   NS   115000	Load Line 1	LL1mw-065	Unconsolidated	Aluminum	50 U	50 U	19.5 J	200	36000	0
Calcium				Barium		58.4	50.5	2000	2600	82.1
Chloromethane										*
Fron										115000
Magnesium   21000   25100   20600   NS   NS   43300										*
Manganese   185   87.7   186   50   880   1020										
Polassium										
RDX   Sodium   11500   14000   10300 J   NS   NS   45700   210c   2.5 J   10 U   2.4 J   5000   11000   60.9   13.5-Trinlirobenzene   0.037 J   0.039 J   0.052 J   NS   1100   * 2.4-Chinlirotoluene   0.086 J   0.078 J   0.085 J   NS   73   * 2.4-Dinlirotoluene   0.086 J   0.078 J   0.085 J   NS   73   * 2.4-Dinlirotoluene   0.086 J   0.078 J   0.085 J   NS   73   * 2.4-Dinlirotoluene   0.057 J   0.1 U   0.062 J   NS   36   * 3										
Sodium										*
LL1mw-079   Bedrock   1,3,5-Trinlirtobenzene   0.037 J   0.039 J   0.052 J   NS   1100   * 2,4,6-TNT   0.11 U   0.11 U   0.066 J   NS   2.2   * 3,4,6-TNT   0.11 U   0.11 U   0.066 J   NS   2.2   * 3,4-Dinitrotoluene   0.086 J   0.078 J   0.085 J   NS   73   * 3,5-Trinlirtotoluene   0.086 J   0.078 J   0.085 J   NS   73   * 3,5-Trinlirtotoluene   0.086 J   0.078 J   0.085 J   NS   73   * 3,5-Trinlirtotoluene   0.086 J   0.078 J   0.085 J   NS   36   * 3,5-Trinlirtotoluene   0.086 J   0.078 J   0.085 J   NS   NS   * 3,5-Trinlirtotoluene   1.5   1.6   1.5   NS   NS   NS   * 3,5-Trinlirtotoluene   1.8   2.1   2   NS   NS   NS   * 3,5-Trinlirtotoluene   1.8   2.1   2   NS   NS   * 3,5-Trinlirtotoluene   1.8   2.1   2   NS   NS   * 3,5-Trinlirtotoluene   1.8   2.1   2   NS   NS   1.8   1.9   2.2   NS   NS   NS   1.8   1.9   2.2   NS   NS   1.40   NS   NS   1.40										45700
LL1mw-079										
2,4,6-TNT	Load Line 1	LL1mw-079	Bedrock							*
2,6-Dinitrotoluene         0.057 J         0.1 U         0.054 J         NS         36         *           2-Amino-4,6-dinitrotoluene         1.5         1.6         1.5         NS         NS         *           4-Amino-2,6-Dinitrotoluene         1.8         2.1         2         NS         NS         *           Aluminum         50 U         50 U         50 U         25.8 J         200         36000         0           Barium         5.4 J         7 J         5.7 J         2000         2600         256           beta-BHC         0.018 J         0.018 J         0.03 U         NS         0.037         *           bis(2-Ethylhexyl) phthalate         10 U         0.92 J         0.92 J         NS         4.8         *           Cadrium         0.21 J         0.23 J         0.33 J         5         NS         0           Calcium         23900         16100         17800         NS         NS         53100           HMX         0.68         0.77         0.77         NS         1800         *           Magnesium         12800         9440         9680         NS         NS         1500           Nickel         12.8								NS		*
2,0-bin   1,5   1,6   1,5   1,6   1,5   1,5   1,6   1,5   1,5   1,6   1,5   1,6   1,5   1,6   1,5   1,6   1,5   1,6   1,5   1,6   1,5   1,6   1,5   1,6   1,5				2,4-Dinitrotoluene	0.086 J	0.078 J	0.085 J	NS	73	*
A-Amino-2,6-Dinitrotoluene   1.8										
Aluminum         50 U         50 U         25.8 J         200         36000         0           Barlum         5.4 J         7 J         5.7 J         2000         2600         256           beta-BHC         0.018 J         0.018 J         0.03 U         NS         0.037         -           bis(2-Ethylhexyl) phthalate         10 U         0.92 J         0.92 J         NS         4.8         *           Cadmium         0.21 J         0.23 J         0.33 J         5         NS         0           Calcium         23900         16100         17800         NS         NS         53100           HMX         0.68         0.77         0.77         NS         1800         *           Magnesium         12800         9440         9680         NS         NS         15000           Manganese         13.3         36.5         22.2         50         880         1340           Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>*</td>										*
Barium         5.4 J         7 J         5.7 J         2000         2600         256           beta-BHC         0.018 J         0.018 J         0.03 U         NS         0.037         *           bis(2-Ethylhexyl) phthalate         10 U         0.92 J         0.92 J         NS         4.8         *           Cadmium         0.21 J         0.23 J         0.33 J         5         NS         0           Calcium         23900         16100         17800         NS         NS         53100           HMX         0.68         0.77         0.77         NS         1800         *           Magnesium         12800         9440         9680         NS         NS         NS         15000           Mickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         333.0         2760 J         2640 J         NS         NS         5770           RDX         1.8										*
beta-BHC										
bis(2-Ethylhexyl) phthalate					0.7 3	, ,	0.7 3			256
Cadmium         0.21 J         0.23 J         0.33 J         5         NS         0           Calcium         23900         16100         17800         NS         NS         53100           HMX         0.68         0.77         0.77         NS         1800         *           Magnesium         12800         9440         9680         NS         NS         15000           Manganese         13.3         36.5         22.2         50         880         1340           Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										*
Calcium         23900         16100         17800         NS         NS         53100           HMX         0.68         0.77         0.77         NS         1800         *           Magnesium         12800         9440         9680         NS         NS         15000           Manganese         13.3         36.5         22.2         50         880         1340           Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										
HMX         0.68         0.77         0.77         NS         1800         *           Magnesium         12800         9440         9680         NS         NS         15000           Manganese         13.3         36.5         22.2         50         880         1340           Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										
Magnesium         12800         9440         9680         NS         NS         15000           Manganese         13.3         36.5         22.2         50         880         1340           Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         -           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         -           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         -           Sodium         9170         6970         5770 J         NS         NS         51400										*
Manganese         13.3         36.5         22.2         50         880         1340           Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										15000
Nickel         12.8 J         14.8 J         16.7         NS         730         83.4           Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										
Nitrobenzene         0.071 J         0.1 U         0.075 J         NS         3         *           Perchlorate         NT         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										
Perchlorate         NT         NT         0.029 J         NS         3.6         *           Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										*
Potassium         3330 J         2760 J         2640 J         NS         NS         5770           RDX         1.8         1.9         2.2         NS         0.61         *           Sodium         9170         6970         5770 J         NS         NS         51400										*
Sodium 9170 6970 5770 J NS NS 51400										5770
				RDX	1.8			NS		*
Zinc 48.9 J 94 68.4 5000 11000 52.3							5770 J			
		<u> </u>		Zinc	48.9 J	94	68.4	5000	11000	52.3

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-W
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 2	LL2mw-060	Bedrock	2-Amino-4,6-dinitrotoluene	0.1 J	0.13 U	0.31	NS	NS	*
			4-Amino-2,6-Dinitrotoluene	0.19	0.13 U	0.44	NS	NS	*
			Acetone	10 U	10 U	10 JB	NS	610	*
			Antimony	0.18 J	0.31 J	0.23 J	6	15	0
			Barium	31.9	29.6	24.7	2000	2600	256
			beta-BHC	0.03 U	0.011 J	0.03 U	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 U	21	2.4 J	NS	4.8	
			Calcium	55900	58900	45800	NS	NS	53100
			Cyanide	0.01 U	0.019	0.01 U	NS	730	1420
			Iron	32.2 J	50 U	42.1 J	300	11000	1430
			Magnesium	8920	7330	8480	NS	NS 880	15000
			Manganese	16.7	0.53 J	47.3 0.11 U	50 NC		1340
			Nitrocellulose Perchlorate	0.21 J NT	0.11 U NT	0.11 U	NS NS	NS 3.6	*
				451 J			NS	NS	5770
			Potassium	451 J 1640	369 J 2060	473 J	NS	NS NS	
			Sodium Zinc	3.4 J	10 U	1850 J 3.1 J	5000	11000	51400 52.3
Load Line 2	LL2mw-261	Bedrock	Arsenic	13.4	15.2 B	15.7	10	0.045	11.7
Luau Line 2	LLZIIIW-Z01	Deulock	Barium	18.7	19.7	20.5	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10.7	19.7 10 U	4.5 J	NS	4.8	ž30 *
			Calcium	56100	61100	62700	NS	NS	53100
			Cobalt	1.9 J	5 U	5 U	NS	730	0
			Iron	2380	2630	2480	300	11000	1430
			Magnesium	20200	22300	22500	NS	NS	15000
			Manganese	369	393	386	50	880	1340
			Nickel	4 J	3.8 J	10 U	NS	730	83.4
			Potassium	1130 J	1060 J	1180 J	NS	NS	5770
			Sodium	9850	10400	10800 J	NS	NS	51400
			Zinc	10 U	10 U	3.3 J	5000	11000	52.3
Load Line 2	LL2mw-264	Bedrock	Arsenic	5 U	5 U	3.7 J	10	0.045	11.7
Loud Lino L	ELEIIII EO I	Dodrook	Barium	4.8 J	4.9 J	5.3 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10 U	10 U	1.7 J	NS	4.8	*
			Calcium	47200	48100	49700	NS	NS	53100
			Iron	249	219	363	300	11000	1430
			Magnesium	16600	17400	17800	NS	NS	15000
			Manganese	144	191	334	50	880	1340
			Potassium	607 J	550 J	601 J	NS	NS	5770
			Sodium	7340	7260	7270 J	NS	NS	51400
			Thallium	0.15 J	1 U	1 U	2	2	0
			Zinc	2.4 J	3.1 J	3.6 J	5000	11000	52.3
Load Line 2	LL2mw-265	Bedrock	2,6-Dinitrotoluene	0.059 J	0.092 J	0.11 U	NS	36	*
			Acetone	1.2 J	10 U	10 U	NS	610	*
			Barium	6.2 J	4.6 J	8.2 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10 U	0.92 J	3.1 J	NS	4.8	*
			Calcium	52800	38400	66900	NS	NS	53100
			Cobalt	5 u	5 U	6.2	NS	730	0
			HMX	0.1 U	0.04 J	0.1 U	NS	1800	*
			Iron	222	146	2230	300	11000	1430
			Magnesium	12200	7630	21400	NS	NS	15000
			Manganese	193	33	1120	50	880	1340
			Nickel	8.2 J	10 U	10 U	NS	730	83.4
			Potassium	561 J	471 J	679 J	NS	NS	5770
			Sodium	2900	2110	7950 J	NS	NS	51400
			Zinc	2.8 J	2.4 J	2.6 J	5000	11000	52.3
Load Line 2	LL2mw-268	Bedrock	Arsenic	5.4 J	3.7 JB	8.2	10	0.045	11.7
			Barium	37.9	40.5	39.3	2000	2600	256
			Calcium	58000	59100	61900	NS	NS	53100
			Cobalt	5 U	5 U	1.8 J	NS	730	0
			Iron	2500	2440	2770	300	11000	1430
			Magnesium	23900	24900	26100	NS	NS	15000
			Manganese	362	341	366	50	880	1340
			Potassium	1600 J	1520 J	1570 J	NS	NS	5770
	1		Sodium	11200	12500	12800 J	NS	NS	51400
	l l								
			Thallium Vanadium	1 U 10 U	0.16 J 10 U	1 U 1.5 J	2 NS	2 36	0

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wi
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgrour
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 2	LL2mw-270	Bedrock	Barium	19.5	33.3	16.1	2000	2600	256
			beta-BHC	0.03 U	0.029 J	0.03 U	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	14	10 U	2.5 J	NS	4.8	*
			Calcium	49400	68500	43800	NS	NS	53100
			Cobalt	13.5 J	25.5	12.1	NS	730	0
			delta-BHC	0.03 U	0.023 J	0.03 U	NS	0.052	*
			HMX	0.059 J	0.1 U	0.11 U	NS	1800	*
			Iron	4420	6030	4780	300	11000	1430
			Magnesium	18600	24000	17100	NS	NS	15000
			Manganese	1160	3600	561	50	880	1340
			Nickel	25.6 J	44.5 J	20.6	NS	730	83.4
			Pentachlorophenol	1.3 J	4.7 J	5 U	NS	0.56	*
			Potassium	1430 J	1550 J	1330 J	NS	NS	5770
			Sodium	3750	6330	2380 J	NS	NS	51400
			Zinc	12.6 J	16	9.8 J	5000	11000	52.3
Load Line 3	LL3mw-232	Bedrock	Barium	28.2	26.1	26.8	2000	2600	256
			bis(2-Ethylhexyl) phthalate	4.3 J	1.5 J	1.3 J	NS	4.8	*
			Calcium	55800	54100	60600	NS	NS	53100
			Cyanide	0.01 U	0.012 J	0.01 U	NS	730	*
			Iron	292	208 J	102 J	300	11000	1430
			Magnesium	36200	35700	38900	NS	NS	15000
			Manganese	458	366	275	50	880	1340
			Nickel	6.1 J	4.6 J	6.9 J	NS	730	83.4
			Potassium	4350	3830	3860	NS	NS	5770
			Sodium	8180	8160	8500	NS	NS	51400
			Thallium	1 U	0.16 J	1 U	2	2	0
			Zinc	8.1 UJ	7.2 J	7.8 J	5000	11000	52.3
Load Line 3	LL3mw-233	Bedrock	Antimony	0.14 J	2 U	0.79 J	6	15	0
Lodd Lino o	ELOIIII LOO	Dodrook	Barium	25.7	24.8	12.5	2000	2600	256
			bis(2-Ethylhexyl) phthalate	1.2 J	10 U	2.3 J	NS	4.8	*
			Calcium	39500	38400	25200	NS	NS	53100
			Cobalt	3.5 J	1.9 J	2.6 J	NS	730	0
			Iron	4840	3350 J	50 U	300	11000	1430
			Magnesium	17500	18600	8920	NS	NS	15000
			Manganese	1410	904	1.1 J	50	880	1340
			Nickel	21.2	15.4	4.2 J	NS	730	83.4
			Perchlorate	NT	NT	0.0093 J	NS	3.6	*
			Potassium	2200	2330	903 J	NS	NS	5770
			Sodium	8970	11400	4560 J	NS	NS	51400
			Thallium	1 U	0.15 J	1 U	2	2	0
			Zinc	18.2 B	15	3.6	5000	11000	52.3
Load Line 3	LL3mw-234	Bedrock	2,4,6-TNT	0.1 U	0.061 J	0.1 U	NS	2.2	± 3∠.3
FORU FILIC 3	LLJIIIW-ZJ4	Deniock	2,4,0-1N1 2,6-Dinitrotoluene	0.1 U	0.001 J 0.1 U	0.1 U	NS	36	*
			2-Amino-4,6-dinitrotoluene	0.13 J	0.1 J	0.1 U	NS	NS	*
			4-Amino-2,6-Dinitrotoluene	0.51 J	0.41 J	0.1 U	NS	NS	*
	1		Acetone	10 JB	10 U	10 U	NS	610	*
	1		alpha-BHC	0.03 U	0.03 U	0.027 J	NS NS	0.011	*
			Barium	8.6 J	7.8 J	9.7 J	2000	2600	256
			beta-BHC	0.03 U	0.03 U	0.014 J	2000 NS	0.037	× ×
			bis(2-Ethylhexyl) phthalate	10 U	0.03 U	10 U	NS	4.8	*
	1		Calcium	42500	37800	48600	NS NS	4.8 NS	53100
	1			42500 5 U	37800 5 U		NS NS	730	0
			Cobalt	0.021 J		1.7 J		730	U *
	1		Cyanide		0.01 R	0.01 U	NS		*
	1		HMX	0.052 J	0.046 J	0.11 U	NS	1800	1400
			Iron	<i>512</i>	571 J	595 J	300	11000	1430
	1		Magnesium	17200	15700	19200	NS	NS	15000
			Manganese	1480	1440	2070	50	880	1340
			Nickel	5.2 J	4 J	7.2 J	NS	730	83.4
	1		Perchlorate	NT	NT	0.053	NS	3.6	*
	1		Potassium	2010	1470	1760	NS	NS	5770
			RDX	0.49 J	0.45 J	0.21 J	NS	0.61	*
			Sodium Zinc	7770 2.5 JB	<i>6920</i> 10 U	7780 10 U	NS 5000	NS 11000	51400 52.3

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wide
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Background
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 3	LL3mw-235	Bedrock	2-Butanone	10 U	0.71 J	10 U	NS	1900	*
			Acetone Barium	10 U 2.5 J	10 U 3 J	10 JB 3 J	NS 2000	610 2600	256
			bis(2-Ethylhexyl) phthalate	10 U	10 U	2 J	NS	4.8	230 *
			Cadmium	0.28 J	0.31 J	0.5 U	5	NS NS	0
			Calcium	35200	35200	32100	NS	NS	53100
			Iron	703 J	76.2	50 U	300	11000	1430
			Magnesium	15400	15700	13600	NS	NS	15000
			Manganese	172	435	44.5	50	880	1340
			Nickel	8.9 J	7.9 J	10 U	NS	730	83.4
			Perchlorate	NT	NT	0.0097 J	NS	3.6	*
			Potassium	757 J	673 J	708 J	NS	NS	5770
			Sodium	9790	9550	8220	NS	NS	51400
			Zinc	16.6 U	26.4	12.7 J	5000	11000	52.3
Load Line 3	LL3mw-237	Bedrock	1,3,5-Trinitrobenzene	0.42 J	0.11 U	0.29	NS	1100	
			2,4,6-TNT	3.4 J	0.11 U	2.8	NS	2.2	*
			2,4-Dinitrotoluene	0.12 J	0.06 J	0.085 J	NS	73	*
			2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene	0.083 J 7.8 J	0.061 J 3	0.057 J 6.2	NS NS	36 NS	*
			4-Amino-2,6-Dinitrotoluene	7.8 J 13 J	4.9	11	NS	NS NS	*
			Antimony	0.13 J	4.9 2 U	2 U	6	15	0
			Barium	2.7 J	2.2 J	2.5 J	2000	2600	256
			beta-BHC	0.061	0.034 J	0.03 U	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	10 U	3.3 J	10 U	NS	4.8	*
			Calcium	35300	28700	40700	NS	NS	53100
			HMX	0.16 J	0.086 J	0.1 U	NS	1800	*
			Iron	62.3	50 U	50 U	300	11000	1430
			Magnesium	9210	9050	11200	NS	NS	15000
			Manganese	1.6 J	183	66.9	50	880	1340
			Perchlorate	NT	NT	0.13	NS	3.6	*
			Potassium	1970	1830	1650	NS	NS	5770
			RDX	0.34 J	0.16	0.27	NS	0.61	-
			Sodium	7240	3700	4980	NS	NS 11000	51400
Load Line 3	LL3mw-240	Bedrock	Zinc Acetone	<i>4.6 JB</i> 10 U	5.5 J 10 U	3.5 J 10 JB	5000 NS	11000 610	52.3
Ludu Lilie 3	LL3IIIW-240	Deditock	Aluminum	40.4 J	50 U	50 U	200	36000	0
			Antimony	1.1 J	0.33 J	2 U	6	15	0
			Barium	11.8	9.7 J	8.7 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	1.6 J	3.7 J	2.8 J	NS	4.8	*
			Calcium	22800	21300	22800	NS	NS	53100
			Iron	44.2 J	50 U	50 U	300	11000	1430
			Magnesium	8160	7590	7560	NS	NS	15000
			Manganese	1.7 J	10 U	13.7 J	50	880	1340
			Nickel	4.7 J	10 U	10 U	NS	730	83.4
			Perchlorate	NT	NT	0.064	NS	3.6	*
			Potassium	964 J	774 J	1150 J	NS	NS	5770
					****				
			Sodium	4300	3360	4270 J	NS	NS 11000	51400
Lood Ure 2	11 2000 244	Doderati	Zinc	4.3 JB	4.8 J	3.1 J	5000	11000	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene	4.3 JB 6.1	4.8 J 24	3.1 J 6.3	5000 NS	11000 1100	
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT	4.3 JB 6.1 7.4	4.8 J 24 12	3.1 J 6.3 4.7	5000 NS NS	11000 1100 2.2	
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene	4.3 JB 6.1 7.4 0.19 J	4.8 J 24 12 0.54 U	3.1 J 6.3 4.7 0.18 J	NS NS NS	11000 1100 2.2 73	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene 2,6-Dinitrotoluene	4.3 JB 6.1 7.4 0.19 J 0.24	4.8 J 24 12 0.54 U 0.3 J	3.1 J 6.3 4.7 0.18 J 0.15	NS NS NS NS	11000 1100 2.2 73 36	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene	4.3 JB 6.1 7.4 0.19 J 0.24 6.4	4.8 J 24 12 0.54 U 0.3 J 5	3.1 J 6.3 4.7 0.18 J 0.15 4.8	NS NS NS NS NS	11000 1100 2.2 73 36 NS	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene 4-Amino-2,6-Dinitrotoluene	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9	4.8 J 24 12 0.54 U 0.3 J 5	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6	NS NS NS NS NS NS	11000 1100 2.2 73 36 NS	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene	4.3 JB 6.1 7.4 0.19 J 0.24 6.4	4.8 J 24 12 0.54 U 0.3 J 5	3.1 J 6.3 4.7 0.18 J 0.15 4.8	NS NS NS NS NS	11000 1100 2.2 73 36 NS	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene 4-Amino-2,6-Dinitrotoluene Barium	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J	4.8 J 24 12 0.54 U 0.3 J 5 5	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6	5000 NS NS NS NS NS NS NS	11000 1100 2.2 73 36 NS NS	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1.3.5-Trinitrobenzene 2.4.6-TNT 2.4-Dinitrotoluene 2.6-Dinitrotoluene 2.6-Dinitrotoluene 4-Amino-4.6-dinitrotoluene Barium beta-BHC	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U	4.8 J 24 12 0.54 U 0.3 J 5 5 7.7 J 0.038 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J	5000 NS NS NS NS NS NS NS NS	11000 1100 2.2 73 36 NS NS S 2600 0.037	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1.3.5-Trinitrobenzene 2.4.6-TNT 2.4-Dinitrotoluene 2.6-Dinitrotoluene 2.6-Dinitrotoluene 4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U	4.8 J 24 12 0.54 U 0.3 J 5 5 1.1 J 0.038 J 1.2 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J	5000  NS  NS  NS  NS  NS  NS  NS  NS  NS	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Amino-4,6-dinitrotoluene 4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U 18700	4.8 J 24 12 0.54 U 0.3 J 5 5 7.7 J 0.038 J 1.2 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J 22800	5000 NS	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8 NS	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1.3.5-Trinitrobenzene 2.4.6-TNT 2.4-Dinitrotoluene 2.6-Dinitrotoluene 2.6-Dinitrotoluene 4-Amino-4,6-dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium HMX Magnesium Manganese	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U 18700 0.47 6570 91.2	4.8 J 24 12 0.54 U 0.3 J 5 5 5 1.1 J 0.038 J 1.2 J 15200 0.47 J 6620 2.5 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J 22800 0.43 7560 13.7	5000  NS  NS  NS  NS  NS  NS  NS  NS  NS	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8 NS 1800 NS	52.3
Load Line 3	LL3mw-241	Bedrock	Zinc 1,3,5-Trinitrobenzene 2,4,6-TNT 2,4,0-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 4-Amino-4,6-dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium HMX Magnesium Manganese Perchlorate	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U 18700 0.47 6570 91.2 NT	4.8 J 24 12 0.54 U 0.3 J 5 5 7.7 J 0.038 J 1.2 J 15200 0.47 J 6620 2.5 J NT	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J 22800 0.43 7560 737 0.081	5000  NS  NS  NS  NS  NS  NS  NS  NS  NS	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8 NS 1800 NS	52.3 
Load Line 3	LL3mw-241	Bedrock	Zinc 1.3.5-Trinitrobenzene 2.4.6-TMT 2.4.6-TMT 2.4-Dinitrotoluene 2.4-Dinitrotoluene 2.4-Minto-2,6-Dinitrotoluene 4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium HMX Magnesium Manganese Perchlorate Polassium	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U 18700 0.47 6570 91.2 NT	4.8 J 24 12 0.54 U 0.3 J 5 5 5 1.1 J 0.038 J 1.2 J 15200 0.47 J 6620 2.5 J NT 575 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J 22800 0.43 7560 1.3.7 0.081	5000  NS  NS  NS  NS  NS  NS  NS  NS  NS	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8 NS 1800 NS	52.3       
Load Line 3	LL3mw-241	Bedrock	Zinc 1.3.5-Trinitrobenzene 2.4.6-TMT 2.4.6-TMT 2.4-Dinitrotoluene 2.4-Dinitrotoluene 2.4-Minto-2,6-Dinitrotoluene 4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium HMMX Magnesium Manganese Perchlorate Potassium RDX	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U 18700 0.47 6570 91.2 NT 1190 0.09 U	4.8 J 24 12 0.54 U 0.3 J 5 5 5 1.1 J 0.038 J 1.2 J 15200 0.47 J 6620 2.5 J NT 575 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J 22800 0.43 7560 13.7 0.081 1150 J 1.6	5000 NS NS NS NS NS NS NS NS NS S S S S S	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8 NS 1800 NS	52.3 
Load Line 3	LL3mw-241	Bedrock	Zinc 1.3.5-Trinitrobenzene 2.4.6-TMT 2.4.6-TMT 2.4-Dinitrotoluene 2.4-Dinitrotoluene 2.4-Minto-2,6-Dinitrotoluene 4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium HMX Magnesium Manganese Perchlorate Polassium	4.3 JB 6.1 7.4 0.19 J 0.24 6.4 5.9 9.7 J 0.03 U 10 U 18700 0.47 6570 91.2 NT	4.8 J 24 12 0.54 U 0.3 J 5 5 5 1.1 J 0.038 J 1.2 J 15200 0.47 J 6620 2.5 J NT 575 J	3.1 J 6.3 4.7 0.18 J 0.15 4.8 4.6 8.7 J 0.052 J 1 J 22800 0.43 7560 1.3.7 0.081	5000  NS  NS  NS  NS  NS  NS  NS  NS  NS	11000 1100 2.2 73 36 NS NS 2600 0.037 4.8 NS 1800 NS	52.3 

Table 4-3. Summary of Constituents Detected - January, April and July 2008

Area	Well Number	Monitored Zone	Compound or Element Detected	Jan-08 Level (ug/L)	Apr-08 Level (ug/L)	Jul-08 Level (ug/L)	MCL (ug/L)	Region 9 PRG (ug/L)	Facility-Wi Backgroui (ug/L)
Load Line 3	11 3mw-243	Bedrock	1.3.5-Trinitrobenzene	0.1 U	0.12 U	0.033 J	NS NS	1100	(ug/L)
			2,6-Dinitrotoluene	0.079 J	0.12 U	0.1 U	NS	36	*
			Antimony	0.4 J	0.31 J	0.31 J	6	15	0
			Barium	17.9	15.5	18.2	2000	2600	256
			bis(2-Ethylhexyl) phthalate	10 U	10 U	1.6 J	NS	4.8	*
			Calcium	17500	14500	18700	NS	NS	53100
			Cyanide	0.02	0.01 R	0.01 U	NS	730	*
			Magnesium	6750	5740	7250	NS	NS	15000
			Manganese	1.1 J	0.89 J	0.8 J	50	880	1340
			Nitrocellulose	0.02	0.5 UJ	0.11 U	NS	NS	*
			Perchlorate	NT	NT	0.065	NS	3.6	*
			Potassium	1290 J	1050	1180 J	NS	NS	5770
			Sodium	2960	3080	3890 J	NS	NS	51400
			Zinc	5.3 J	4.6 J	3.8 J	5000	11000	52.3
Load Line 4	LL4mw-193	Unconsolidated	2,6-Dinitrotoluene	0.06 J	0.099 U	0.077 J	NS	36	*
			Aluminum	20.4 J	76.8	28.1 J	200	36000	0
			Barium	55.1	54.8	45.6	2000	2600	82.1
			beta-BHC	0.03 UJ	0.021 J	0.03 U	NS	0.037	
			bis(2-Ethylhexyl) phthalate	10 U	10 U	0.89 J	NS	4.8	115000
			Calcium	118000	115000	111000	NS	NS	115000
			delta-BHC	0.03 UJ	0.016 J	0.03 U	NS	0.052	270
			Iron Magnesium	1240	1390 J	974 J	300	11000	279
			Magnesium	35500	35600	33800	NS	NS	43300
			Manganese	482	452	443	50	880 NC	1020
			Potassium	1020	934 J	935 J	NS	NS	2890
			Sodium	9640	9130	10600	NS	NS	45700
			Thallium	0.41 J	1 U	1 U	2	11000	0
Land Una 4	11.4 10.4	Unana allalata d	Zinc	3.7 JB	5.3 J	4.7 J	5000	11000	60.9
Load Line 4	LL4mw-194	Unconsolidated	2,6-Dinitrotoluene	0.07 J	0.11 U	0.051 J	NS	36	
			Aluminum	50 U	50 U	202	200	36000	0
			Arsenic	5 U	3.4 J	5 U	10	0.045	11.7
			Barium	29.6	31.6	37.9	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 U	10 U	0.99 J	NS	4.8	1
			Calcium	103000	99600	116000	NS	NS 11000	115000
			Iron	183	80.5	448	300	11000	279
			Magnesium	29900	29500	33500	NS	NS	43300
			Manganese	242	189	271	50	880	1020
			Potassium	917	773 J	1200 J	NS	NS	2890
			Sodium Thallium	6780 0.15 J	<i>6460</i> 1 U	<i>6870 J</i> 1 U	NS 2	NS 2	45700 0
			Zinc	3.2 JB	2.8 J	3 J	5000	11000	60.9
Load Line 4	LL4mw-195	Unconsolidated	Arsenic	5.2 JD	5 U	4.2 J	10	0.045	11.7
Lodd Line 4	EE4IIW 175	Onconsolidated	Barium	29.8	26.8	28.4	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 U	10 U	4.8 J	NS	4.8	*
			Cadmium	0.13 J	0.5 U	0.5 U	5	NS	0
			Calcium	221000	208000	218000	NS	NS	115000
			Cobalt	2.2 J	2.5 J	2.6 J	NS	730	0
			Iron	9560	8900	9580	300	11000	279
			Magnesium	61100	58400	59000	NS	NS	43300
			Manganese	3660	3470	3450	50	880	1020
			Perchlorate	NT	NT	0.018 J	NS	3.6	*
			Potassium	1180	960 J	1160 J	NS	NS	2890
			Sodium	8380	7520	8620 J	NS	NS	45700
			Thallium	0.27 J	0.16 J	1 U	2	2	0
			Toluene	1 U	1 U	1 JB	1000	720	*
			Zinc	7.1 JB	5.6 J	5.8 J	5000	11000	60.9
Load Line 4	LL4mw-200	Unconsolidated	Aluminum	50 U	29.7 J	262	200	36000	0
			Barium	11.1	11.2	11.7	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 U	0.93 J	10 U	NS	4.8	*
			Calcium	168000	162000	172000	NS	NS	115000
			Iron	50 U	59.1	854 J	300	11000	279
			Magnesium	50900	48500	53300	NS	NS	43300
			Manganese	11.1	7.6 J	20.1	50	880	1020
			Nitrocellulose	0.16 J	0.5 U	0.5 UJ	NS	NS	*
			Perchlorate	NT	NT	0.01 J	NS	3.6	*
			Potassium	635J	573 J	630 J	NS	NS	2890
			Sodium	8330	7860	8160	NS	NS	45700
			Zinc	2.3 JB	10 U	3.3 J	5000	11000	60.9
Load Line 5	LL5mw-001	Bedrock	Barium	NT	24.9 J	22.7 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.1 J	NS	4.8	*
			Calcium	NT	62000 J	60300 J	NS	NS	53100
			Iron	NT	431 J	35.2 J	300	11000	1430
			Magnesium	NT	25800 J	24000	NS	NS	15000
			Manganese	NT	2.6 J	1.6 J	50	880	1340
			Nitrocellulose	NT	0.5 U	0.13 J	NS	NS	*
			Potassium	NT	1380 J	1290	NS	NS	5770
	•								
			Sodium	NT	5450 J	5080	NS	NS	51400

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wi
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgroui
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 5	LL5mw-002	Bedrock	Barium	NT	39.8 J	45.8 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	3 J	NS	4.8	*
			Calcium	NT	59700 J	60600 J	NS	NS	53100
			Iron	NT	123 J	261	300	11000	1430
			Magnesium	NT	19800 J	19200	NS	NS	15000
			Manganese	NT	91.3 J	122	50	880	1340
			Potassium	NT	1340 J	1140	NS	NS	5770
			Sodium	NT	8340 J	8280	NS	NS	51400
			Zinc	NT	3.2 J	6.9 BJ	5000	11000	52.3
Load Line 5	LL5mw-003	Unconsolidated	Acetone	NT	2 J	10 JB	NS	610	*
			Aluminum	NT	50 U	1720	200	36000	0
			Barium	NT	19.8 J	32.8	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.5 J	NS	4.8	*
			Calcium	NT	93500 J	103000	NS	NS	115000
			Chromium	NT	5 UJ	2.8 J	100	NS	0
			Cobalt	NT	5 UJ	1.8 J	NS	730	0
			HMX	NT	0.11 U	0.061 J	NS	1800	*
			Iron	NT	50 U	3280	300	11000	279
			Magnesium	NT	24200 J	25200	NS	NS	43300
			Manganese	NT	10 U	52.8	50	880	1020
			Nitrocellulose	NT	0.5 U	0.15 J	NS	NS	*
			Potassium	NT	356 J	1030 J	NS	NS	2890
			Sodium	NT	3850 J	3120	NS	NS	45700
			Vanadium	NT	10 U	3.7 J	NS	36	0
			Zinc	NT	10 U	11.4 BJ	5000	11000	60.9
Load Line 5	LL5mw-004	Bedrock	Aluminum	NT	680	740 J	200	36000	0
			Barium	NT	22.4 J	24 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.6 J	NS	4.8	*
			Calcium	NT	67700 J	53800 J	NS	NS	53100
			Iron	NT	50 U	1520	300	11000	1430
			Magnesium	NT	24800 J	21100	NS	NS	15000
			Manganese	NT	0.44 J	33.5	50	880	1340
			Potassium	NT	325 J	667 J	NS	NS	5770
			Sodium	NT	2270 J	2490	NS	NS	51400
			Vanadium	NT	10 UJ	1.4 J	NS	36	0
			Zinc	NT	5.7	9 BJ	5000	11000	52.3
Load Line 5	LL5mw-005	Bedrock	2-Nitrotoluene	NT	0.2 J	0.11 U	NS	61	*
			Aluminum	NT	606	50 U	200	36000	0
			Barium	NT	14.9	9.9 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.2 J	NS	4.8	*
			Calcium	NT	61000	64100	NS	NS	53100
			HMX	NT	0.066 J	0.046 J	NS	1800	*
			Iron	NT	1940 J	50 U	300	11000	1430
			Magnesium	NT	27000	26600	NS	NS	15000
			Manganese	NT	461	290	50	880	1340
			Nitrobenzene	NT	0.1 U	0.081 J	NS	3	*
			Nitrocellulose	NT	0.5 UJ	0.13 J	NS	NS	*
			Potassium	NT	1870 J	1570 J	NS	NS	5770
			Sodium	NT	6660	6960	NS	NS	51400
			Zinc	NT	7.4 J	2.4 JB	5000	11000	52.3
Load Line 5	LL5mw-006	Bedrock	4-Nitrotoluene	NT	0.5 U	0.14 J	NS	61	32.3
LUAU LIIIC D	LLJIIIW-UU0	DEGLOCK	Acetone	NT	10 U	10 JB	NS	610	*
			Aluminum	NT	60.7 J	50 U	200	36000	0
						15.7 J			
			Barium	NT	16.8		2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.8 J	NS	4.8	F2100
			Calcium	NT	59700	64200 J	NS	NS 11000	53100
			Iron	NT	145 J	133 J	300	11000	1430
			Magnesium	NT	34000	34300	NS	NS	15000
			Manganese	NT	6.6 J	0.56 J	50	880	1340
			Nitrocellulose	NT	0.5 UJ	0.13 J	NS	NS	*
			Potassium	NT	985 J	1180	NS	NS	5770
	1		Sodium	NT	8300	5950	NS	NS 11000	51400
			Zinc	NT	10 U	2.4 JB	5000		52.3

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wide
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Background
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 6	LL6mw-001	Unconsolidated	Acetone Aluminum	NT NT	1.3 J	10 U 70.8	NS 200	610 36000	0
			Barium	NT	24.2 J 17.4	10.8 14.7 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.3 J	NS	4.8	*
			Calcium	NT	68800	71700	NS	NS	115000
			Cyanide	NT	0.01 U	0.0073 J	NS	730	*
			Iron	NT	50 U	125	300	11000	279
			Magnesium	NT	43900	40300	NS	NS	43300
			Manganese Perchlorate	NT NT	2.3 J NT	6.4 J 0.076	50 NS	880 3.6	1020
			Potassium	NT	1310 J	1350 J	NS	NS NS	2890
			Sodium	NT	7290	6880 J	NS	NS	45700
			Zinc	NT	10 U	4.6 J	5000	11000	60.9
Load Line 6	LL6mw-002	Unconsolidated	Acetone	NT	1.5 J	10 JB	NS	610	*
			Aluminum	NT	50 U	515	200	36000	0
			Barium	NT	21.6	23.6 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate Calcium	NT NT	10 UJ 129000	1.3 J 130000	NS NS	4.8 NS	115000
			Iron	NT	50 U	893	300	11000	279
	1		Magnesium	NT	29700	31500	NS	NS	43300
	1		Manganese	NT	1.4 J	11.6	50	880	1020
			Perchlorate	NT	NT	0.06	NS	3.6	*
	1		Potassium	NT	775 J	1140 J	NS	NS	2890
			Selenium	NT NT	4.2 J	5 U	50 NS	180 NS	0
			Sodium Vanadium	NT	<i>2100</i> 10 U	2560 0.68 J	NS	36	45700 0
			Zinc	NT	3.6 J	5.5 J	5000	11000	60.9
Load Line 6	LL6mw-003	Bedrock	Barium	NT	7 J	7.5 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.4 J	NS	4.8	*
			Calcium	NT	68400	73100	NS	NS	53100
			Iron	NT	30.2 J	50 U	300	11000	1430
			Magnesium Manganese	NT NT	34300 88.8	35300 76.7	NS 50	NS 880	15000 1340
			Nitroglycerine	NT	0.64 U	0.35 J	NS	4.8	*
			Perchlorate	NT	NT	0.038 J	NS	3.6	*
			Potassium	NT	1890 J	1860 J	NS	NS	5770
			Sodium	NT	11200	11800	NS	NS	51400
	11.4	5 1 1	Zinc	NT	10 U	2.9 J	5000	11000	52.3
Load Line 6	LL6mw-004	Bedrock	Barium bis(2-Ethylhexyl) phthalate	NT NT	NT NT	35.6 J 1.3 J	2000 NS	2600 4.8	256
			Calcium	NT	NT	71700	NS	NS NS	53100
			HMX	NT	NT	0.04 J	NS	1800	*
			Iron	NT	NT	798	300	11000	1430
			Magnesium	NT	NT	32900	NS	NS	15000
			Manganese	NT	NT	114	50	880	1340
			Perchlorate	NT	NT	0.031 J	NS	3.6	F1400
	1		Sodium Potassium	NT NT	NT NT	11,400 1320 J	NS NS	NS NS	51400 5770
Load Line 12	LL12mw-088	Unconsolidated	2,6-Dinitrotoluene	0.1 U	0.055 J	0.1 U	NS	36	*
			2-Butanone	6.6 J	10 U	10 U	NS	1900	*
	1		4-Methyl-2-pentanone	0.36 J	10 U	10 U	NS	1900	*
	1		Acetone	58 JB	10 U	10 U	NS	610	*
	1		Arsenic	16.8	21.9	14.2 U	10	0.045	11.7
	1		Barium beta-BHC	301 0.03 U	379 0.03 H	363 0.015 J	2000 NS	2600 0.037	82.1
	1		bis(2-Ethylhexyl) phthalate	10 U	10 U	0.015 J 1 J	NS	4.8	*
	1		Calcium	114000	149000	150000	NS	NS	115000
	1		Iron	2860 J	3100	2470	300	11000	279
	1		Magnesium	41400	52500	52600	NS	NS	43300
	1		Manganese	304	412	371	50	880	1020
	1		Nickel	6.4 J	10 U	3.7 J	NS 10000	730	0 *
	1		Nitrate as N (NO3-N) Nitrobenzene	0.1 U 0.11 U	0.1 U 0.11 U	0.04 J 0.092 J	10000 NS	1000	*
	1		Potassium	5490	2410 J	2370	NS	NS	2890
	1		Selenium	5 U	4.3 J	5 U	50	180	0
	1		Sodium	13600	12800	12500	NS	NS	45700
	1		Thallium	1 U	1 U	0.17 J	2	2	0
			Zinc	3.3 JB	10 U	7.3 J	5000	11000	60.9

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-W
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 12	LL12mw-107	Unconsolidated	4,4'-DDT	0.03 U	0.03 U	0.019 J	NS	0.2	*
			Arsenic	17.4	5 U	7.3 B	10	0.045	11.7
			Barium	27	27.7	28.4	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	0.91 J	10 U	1.7 J	NS	4.8	*
			Calcium	157000	162000	172000	NS	NS	115000
			Cobalt	5 U	5 U	2.1 J	NS	730	0
			Cyanide	0.01 U	0.01 R	0.015	NS	730	
			Iron	2090 J	50.8 J	1690 J	300	11000	279
			Magnesium	67800	68500	71800	NS	NS	43300
			Manganese Nitrate as N (NO3-N)	225	277	280	50	880	1020
				0.3 J	0.1 U	0.03 J	10000	1000 NS	*
			Nitrocellulose	0.5 U	0.5 U	0.21 J	NS		
			Perchlorate	NT	NT	0.013 J	NS	3.6	2000
			Potassium	3560	2240	2570	NS	NS	2890
			Sodium	17700	16800	17300	NS	NS 24	45700
			Vanadium	10 U	1 J 10 U	10 U	NS 5000	36	0
Load Line 12	LL12mw-113	Dodrook	Zinc	3.9 JB	1350	7.2 J 10400 J	200	11000	60.9
Load Line 12	LL12IIIW-113	Bedrock	Aluminum Antimony	28500 0.56 J	0.33 J	0.34 J	6	36000 15	0
				54.3	4.9 J		10	0.045	
			Arsenic Barium	54.3 111	28.5	23.8 63	2000	2600	11.7 256
	1		Benzene	1 U	0.25 J	1 U	5	0.34	∠30
			Beryllium	1.5	1 U	0.42 J	4	NS	0
			beta-BHC	0.03 U	0.021 J	0.42 J	NS	0.037	*
			Cadmium	0.45 J	0.021 J	0.03 U	5	NS	0
			Calcium	296000	186000	230000	NS	NS	53100
			Chromium	41.3	2.2 J	15.7	100	NS	7.3
			Cobalt	38.8	4.2 J	15.6	NS	730	0
			Copper	84.4	5 U	21.2	1300	1500	0
			Cyanide	0.0087 J	0.01 U	0.01 U	NS	730	*
			HMX	0.0007 J	0.058 J	0.01 U	NS	1800	*
			Iron	88300	3660	29100	300	11000	1430
			Lead	47	2.1 J	10.4	15	NS	23
			Magnesium	122000	75200	101000	NS	NS	15000
			Manganese	4410	1510	2450	50	880	1340
			Nickel	77.1	5.1 J	36.2	NS	730	83.4
			Nitrate as N (NO3-N)	0.6	0.1 U	1.1 J	10000	1000	*
			Nitrocellulose	0.5 U	0.13 J	0.14 J	NS	NS	*
			Potassium	11800	4580 J	8160	NS	NS	5770
			Sodium	24200	23000	23500	NS	NS	51400
			Thallium	0.42 J	1 U	0.25 J	2	2	0
			Vanadium	46.7 J	0.83 J	16.9	NS	36	0
	1		Zinc	178	13.1	66.2	5000	11000	52.3
Load Line 12	LL12mw-128	Unconsolidated	3-Nitrotoluene	0.098 J	0.52 U	0.5 U	NS	61	*
			Aluminum	1340	6570	50 U	200	36000	0
	1		Antimony	2 U	0.28 J	0.29 J	6	15	0
	1		Arsenic	40.1	52.9	51.5	10	0.045	11.7
	1		Barium	68.1	75.5	58.6	2000	2600	82.1
	1		Beryllium	1 U	0.29 J	1 U	4	NS	0
	1		bis(2-Ethylhexyl) phthalate	10 U	2.2 J	1.3 J	NS	4.8	*
	1		Calcium	180000	165000	209000	NS	NS	11500
	1	I	Chromium	5 U	8.9	5 U	100	NS	0
				5 U	6.3	5 U	NS	730	0
			Cobalt	5 U	0.3				0
				5 U	6 J	5 U	1300	1500	
			Cobalt Copper Iron			5 U 5480 J	1300 300	11000	279
			Copper	5 U	6 J				279 0
			Copper Iron Lead	5 U 7310 3 U	6 J 17400 J 5.2	5480 J 3 U	300 15	11000	0
			Copper Iron	5 U <b>7310</b>	6 J 17400 J	5480 J	300	11000 NS	0 43300
			Copper Iron Lead Magnesium	5 U 7310 3 U 108000 199	6 J 17400 J 5.2 101000	5480 J 3 U 126000 189	300 15 NS	11000 NS NS 880	0
			Copper Iron Lead Magnesium Manganese	5 U 7310 3 U 108000 199 10 U	6 J 17400 J 5.2 101000 333	5480 J 3 U 126000 189 10 U	300 15 NS 50	11000 NS NS	0 43300 1020
			Copper Iron Lead Magnesium Manganese Nickel Nitrate as N (NO3-N)	5 U 7310 3 U 108000 199 10 U 0.09 JB	6 J 17400 J 5.2 101000 333 14.4 0.1 U	5480 J 3 U 126000 189 10 U 0.1 U	300 15 NS 50 NS 10000	11000 NS NS 880 730 1000	0 43300 1020 0
			Copper Iron Lead Magnesium Manganese Niickel Niirate as N (NO3-N) Potassium	5 U 7310 3 U 108000 199 10 U	6 J 17400 J 5.2 101000 333 14.4	5480 J 3 U 126000 189 10 U	300 15 NS 50 NS	11000 NS NS 880 730	0 43300 1020 0 *
			Copper Iron Lead Magnesium Manganese Nickel Nitrate as N (NO3-N)	5 U 7310 3 U 108000 199 10 U 0.09 JB 2970	6 J 17400 J 5.2 101000 333 14.4 0.1 U 3630 J	5480 J 3 U 126000 189 10 U 0.1 U 2170	300 15 NS 50 NS 10000 NS	11000 NS NS 880 730 1000 NS	0 43300 1020 0
			Copper Iron Lead Magnesium Manganese Nickel Nitrate as N (NO3-N) Potassium Sodium	5 U 7310 3 U 108000 199 10 U 0.09 JB 2970 23700	6 J 17400 J 5.2 101000 333 14.4 0.1 U 3630 J	5480 J 3 U 126000 189 10 U 0.1 U 2170 24700	300 15 NS 50 NS 10000 NS	11000 NS NS 880 730 1000 NS	0 43300 1020 0 * 2890 45700

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-W
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 12	LL12mw-154	Unconsolidated	Acetone	10 U	1.6 JB	10 U	NS	610	*
			Aluminum	4820	50 U	50 U	200	36000	0
			Antimony	0.33 J	2 U	2 U	6	15	0
			Arsenic	651	8	16.3 B	10	0.045	11.7
			Barium Beryllium	117 0.24 J	<i>43.3</i> 1.0 U	<i>47.7</i> 1 U	2000 4	2600 NS	82.1 0
			beta-BHC	0.24 J	0.03 U	0.012 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	1.3 J	10 U	10 U	NS	4.8	*
			Calcium	130000	130000	148000	NS	NS	115000
			Chromium	5.9	5 U	5 U	100	NS	0
			Cobalt	4.7 J	5 U	5 U	NS	730	0
			Copper	10.7	5 U	5 U	1300	1500	0
			Cyanide	0.01 U	0.01 R	0.057	NS	730	*
			Iron	53200 J	162 J	2580 J	300	11000	279
			Lead	5.4	3 U	3 U	15	NS	0
			Magnesium	58300	60500	72400	NS	NS	43300
			Manganese	213	70.5	95.9	50	880	1020
			Nickel	11.3	70.5	10 U	NS	730	0
			Nitrate as N (NO3-N)	0.06 JB	0.1 U	0.05 J	10000	1000	*
			Nitrocellulose	0.00 JB 0.14 J	0.1 U	0.03 J	NS	NS	*
			Potassium	3430	1950	1920	NS	NS	2890
			Sodium	20100	21400	24200	NS	NS	45700
			Vanadium	7.8 J	10 U	24200 10 U	NS	36	45700
			Zinc	39.3 J	10 U	4.1 J	5000	11000	60.9
Load Line 12	LL12mw-184	Unconsolidated	Arsenic	13.5	16.7	11.9 B	10	0.045	11.7
LUGU LING 12	LL IZIIIW-104	Jiiconsolluateu	Barium	10.9	9.9 J	10.2	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10.9	2.5 J	10 U	NS	4.8	0Z.1
			Calcium	203000	208000	224000	NS	NS	11500
			Heptachlor epoxide	0.03 U	0.0082 J	0.03 U	NS	0.0074	*
			Iron	2410 J	2680 J	3130 J	300	11000	279
			Magnesium	149000	157000	166000	NS	NS	43300
			Manganese	498	527	551	50	880	1020
			Nitrate as N (NO3-N)		0.1 U		10000	1000	1020
			. ,	0.07 JB	2670	0.03 J	NS	NS	2890
			Potassium Sodium	3130 37900	39000	2660 39600	NS	NS NS	45700
			Zinc				5000		
Load Line 12	LL12mw-185	Unconsolidated	4,4'-DDT	6 JB 0.03 U	7.4 J 0.03 U	6.6 J 0.019 J	NS	11000 0.2	60.9
Luau Line 12	LL IZIIIW-100	Unconsolidated	Barium	57.2	54.6	54.7	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	10 U	10 U	2.1 J	NS	4.8	02.1
			Cadmium	0.24 J	0.27 J	0.25 J	5	NS	0
			Calcium	0.24 J R	695000	677000	NS	NS NS	11500
			Carbon disulfide	1 U	1 U	0.36 J	NS	1000	*
			Cobalt	2.6 J	2.3 J	2.7 J	NS	730	0
			delta-BHC	0.03 U	0.03 U	0.021 J	NS	0.052	*
			HMX	0.03 U				0.032	
			HIVIX					1000	*
			Magnocium		0.067 J	0.11 U	NS	1800	*
			Magnesium	304000	297000	308000	NS	NS	
			Manganese	304000 1780	297000 1580	308000 1530	NS 50	NS 880	1020
			Manganese Nickel	304000 1780 6.9 J	297000 1580 4.6 J	308000 1530 5.6 J	NS 50 NS	NS 880 730	
			Manganese Nickel Nitrate as N (NO3-N)	304000 1780 6.9 J 220	297000 1580 4.6 J 0.8	308000 1530 5.6 J 240 J	NS 50 NS 10000	NS 880 730 1000	1020
			Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene	304000 1780 6.9 J 220 0.071 J	297000 1580 4.6 J 0.8 0.1 U	308000 1530 5.6 J 240 J 0.075 J	NS 50 NS 10000 NS	NS 880 730 1000 3	1020
			Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose	304000 1780 6.9 J 220 0.071 J 1.4 J	297000 1580 4.6 J 0.8 0.1 U 0.49 J	308000 1530 5.6 J 240 J 0.075 J 3.5 J	NS 50 NS 10000 NS NS	NS 880 730 1000 3 NS	1020 0 *
			Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate	304000 1780 6.9 J 220 0.071 J 1.4 J NT	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065	NS 50 NS 10000 NS NS	NS 880 730 1000 3 NS 3.6	1020
			Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730	NS 50 NS 10000 NS NS NS	NS 880 730 1000 3 NS 3.6 NS	1020 0 * * * * * 2890
			Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200	NS 50 NS 10000 NS NS NS NS	NS 880 730 1000 3 NS 3.6 NS	1020 0 * * * * 2890 45700
Load Line 12	1117001107	Unconcellidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB	NS 50 NS 10000 NS NS NS NS NS NS	NS 880 730 1000 3 NS 3.6 NS NS 11000	1020 0 * * * 2890 45700 60.9
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J	NS 500 NS	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000	1020 0 * * * 2890 45700 60.9 0
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U	NS 50 NS 10000 NS NS NS NS NS OS	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000 15	1020 0 
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antlimony Barium	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U	NS 50 NS 10000 NS NS NS NS NS NS NS 0200 6 2000	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000 15 2600	1020 0 * * * 2890 45700 60.9 0
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20,7 J 2 U 301	NS 50 NS 10000 NS	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000 15 2600 4.8	1020 0 * * 2890 45700 60.9 0 0 82.1
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 10 U 969000 R	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000	NS 50 NS 10000 NS	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000 15 2600 4.8 NS	1020 0 * 2890 45700 0.9 0 0 82.1
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barlum bis(2-Ethylhexyl) phthalate Cobalt	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000 9.1	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4	NS 50 NS 10000 NS NS NS NS 5000 6 2000 NS NS NS NS	NS 880 730 1000 3 NS NS NS NS 11000 15 2600 4.8 NS 730	1020 0 
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium Coball Iron	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000 9.1	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4	NS 50 NS 10000 NS NS NS NS NS S000 200 6 2000 NS NS NS NS NS NS S000 NS	NS 880 730 1000 3 NS NS NS NS NS 11000 36000 15 2600 4.8 NS	1020 0 
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Magnesium	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000 9.1 50 U 286000	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4 33.5 J	NS 50 NS 10000 NS NS NS NS NS S000 2000 6 2000 NS	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000 4.8 NS 730 11000 NS	1020 0 - - - 2890 45700 60.9 0 0 82.1 - - 11500 279
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Magnesium Manganese	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000 2110	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000 9.1 50 U 286000 2030	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4 33.5 J	NS 50 NS 10000 NS	NS 880 730 1000 3 NS 3.6 NS NS 11000 36000 15 2600 4.8 NS 730 11000 NS 880	1020 0 
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barlum bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Magnesium Manganese Nickel	304000 1780 6.9 J 220 0.071 J 1.4 J 9220 58300 5.3 JB 2.6 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000 2110 14.1	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000 9.1 50 U 286000 2030 12.4	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4 33.5 J 306000 2130 14.5 J	NS 50 NS 10000 NS	NS 880 730 10000 3 NS NS NS NS 11000 15 2600 4.8 NS 730 11000 NS 880 730	1020 0 - - - 2890 45700 60.9 0 0 82.1 - - 11500 279
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antlimony Barium bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Manganese Nickel Nitrate as N (NO3-N)	304000 1780 6.9 J 220 0.071 J 1.4 J T 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000 2110 14.1 1800	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 50.0 U 0.13 J 338 2.2 J 932000 9.1 50 U 286000 2030 12.4	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4 33.5 J 306000 2130 14.5 J 1600 J	NS 50 NS 10000 NS	NS 880 730 1000 3 NS NS NS NS NS 11000 36000 15 2600 4.8 NS	1020 0 
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Magnesium Manganese Nickel Nitrate as N (NO3-N) Nitrocellulose	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000 2110 14.1 1800 4 J	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 550.0 U 0.13 J 932000 9.1 50 U 286000 2030 12.4 200 6.3 J	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4 33.5 J 306000 2130 14.5 J 1600 J	NS 50 NS	NS 880 730 1000 3 NS 11000 36000 4.8 NS 730 11000 NS 880 730 10000 NS	0 - - 2890 45700 0 0 0 82.1 - 115000 0 0 279 43300 1020
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Magnesium Manganese Nickel Nitrate as N (NO3-N) Nitrocellulose Potassium	304000 1780 1780 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000 2110 14.1 1800 4 J 53500	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 550.0 U 0.13 J 338 2.2 J 932000 9.1 50 U 286000 2030 12.4 200 6.3 J 51100	308000 1530 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 17. J 944000 10.4 33.5 J 306000 2030 14.5 J 18.8 J 50700	NS 50 NS 10000 NS NS NS NS 10000 NS	NS 880 880 1000 3 NS	1020 0 
Load Line 12	LL12mw-187	Unconsolidated	Manganese Nickel Nitrate as N (NO3-N) Nitrobenzene Nitrocellulose Perchlorate Potassium Sodium Zinc Aluminum Antimony Barium bis(2-Ethylhexyl) phthalate Calcium Cobalt Iron Magnesium Manganese Nickel Nitrate as N (NO3-N) Nitrocellulose	304000 1780 6.9 J 220 0.071 J 1.4 J NT 9220 58300 5.3 JB 26.8 J 0.17 J 339 10 U 969000 R 10.1 50 U 295000 2110 14.1 1800 4 J	297000 1580 4.6 J 0.8 0.1 U 0.49 J NT 7680 J 55800 4 J 550.0 U 0.13 J 932000 9.1 50 U 286000 2030 12.4 200 6.3 J	308000 1530 5.6 J 240 J 0.075 J 3.5 J 0.065 7730 56200 6 JB 20.7 J 2 U 301 1.7 J 944000 10.4 33.5 J 306000 2130 14.5 J 1600 J	NS 50 NS	NS 880 730 1000 3 NS 11000 36000 4.8 NS 730 11000 NS 880 730 10000 NS	1020 0 

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-W
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Load Line 12	LL12mw-188	Unconsolidated	2-Butanone	10 U	0.68 J	10 U	NS	1900	0
			Aluminum	1770	23.8 J	72.3	200	36000	0
			Barium beta-BHC	44 0.03 U	40.5 0.013 J	38 0.017 J	2000 NS	2600 0.037	82.1
			bis(2-Ethylhexyl) phthalate	10 U	0.013 J	0.017 J	NS	4.8	*
			Calcium	116000	140000	151000	NS	NS	115000
			Chromium	2.4 J	3.3 J	5 U	100	NS	0
			Cobalt	2.4 J	4.7 J	5 U	NS	730	0
			Copper	4.8 J	5 U	5 U	1300	1500	0
			delta-BHC	0.03 U	0.011 J	0.03 U	NS	0.052	*
			HMX	0.069 J	0.11 U	0.037 J	NS	1800	*
			Iron	4120	227 J	362 J	300	11000	279
			Magnesium	89600	112000	112000	NS	NS	43300
			Manganese	485	664	646	50	880	1020
			Nickel	5.3 J	3.6 J	10 U	NS	730	0
			Nitrate as N (NO3-N)	1.3	0.05 J	0.3 J	10000	1000	*
			Potassium	2570	2190	2220	NS	NS	2890
			RDX	0.083 J	0.11 U	0.11 U	NS	0.61	*
			Silver	5 U	3.6 J	5 U	NS	180	0
			Sodium	27100	31800	30800	NS	NS	45700
			Vanadium	1.8 J	2.2 J	10 U	NS	36	0
			Zinc	14.4 B	2.6 J	3 J	5000	11000	60.9
Load Line 12	LL12mw-189	Bedrock	2-Butanone	10 UJ	0.7 J	10 U	NS	1900	*
			4,4'-DDD	0.03 UJ	0.03 U	0.013 J	NS	0.28	*
			Aluminum	49.9 J	37.2 J	50 U	200	36000	0
			Arsenic	5 U	3.9 J	5 U	10	0.045	11.7
			Barium	14.4	18.7	15.1	2000	2600	256
			bis(2-Ethylhexyl) phthalate	1.1 J	10 U	34	NS	4.8	F2100
			Calcium	150000	162000	159000 0.097 U	NS	NS 1000	53100
			HMX	0.044 J	0.11 U		NS	1800	
			Iron	119	491	430	300	11000	1430
			Magnesium	70500	78500	75100 319	NS 50	NS 880	15000
			Manganese Nitrate as N (NO3-N)	235 0.1 U	<i>327</i> 0.1 U	0.05 J	10000	1000	1340
			Nitrocellulose	0.1 U	0.1 U	0.03 J	NS	NS	*
			Potassium	2230	1940 J	1920	NS	NS	5770
			Sodium	49700	51200	48600	NS	NS	51400
			Thallium	1 U	0.17 J	1 U	2	2	0
			Zinc	6.4 JB			5000		
					10 U	4.0 JB		11000	52.3
Load Line 12	II 12mw-242	Unconsolidated	1.3.5-Trinitrobenzene		10 U 0.11 U	4.6 JB 0.11 U		11000 1100	52.3
Load Line 12	LL12mw-242	Unconsolidated	1,3,5-Trinitrobenzene Aluminum	0.045 J	0.11 U	0.11 U	NS	1100	*
Load Line 12	LL12mw-242	Unconsolidated	Aluminum	0.045 J 27300	0.11 U 36.5 BJ	0.11 U <b>1440</b>		1100 36000	52.3 * 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony	0.045 J 27300 0.73 J	0.11 U 36.5 BJ 2 U	0.11 U 1440 2 U	NS 200 6	1100 36000 15	0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum	0.045 J 27300	0.11 U 36.5 BJ	0.11 U <b>1440</b>	NS 200	1100 36000	* 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic	0.045 J 27300 0.73 J 53.5	0.11 U 36.5 BJ 2 U 19	0.11 U 1440 2 U 24.7	NS 200 6 10	1100 36000 15 0.045	0 0 11.7
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium	0.045 J 27300 0.73 J 53.5 129	0.11 U 36.5 BJ 2 U 19 23.3	0.11 U 1440 2 U 24.7 28.2	NS 200 6 10 2000	1100 36000 15 0.045 2600	* 0 0 11.7
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene	0.045 J 27300 0.73 J 53.5 129 0.55 J	0.11 U 36.5 BJ 2 U 19 23.3	0.11 U 1440 2 U 24.7 28.2 1 U	NS 200 6 10 2000 5	1100 36000 15 0.045 2600 0.34	* 0 0 11.7 82.1
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Ansenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U	NS 200 6 10 2000 5 4	1100 36000 15 0.045 2600 0.34 NS 4.8 NS	* 0 0 11.7 82.1 * 0 *
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J	NS 200 6 10 2000 5 4 NS 5 NS	1100 36000 15 0.045 2600 0.34 NS 4.8 NS	0 0 11.7 82.1 * 0 *
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadrium Chromium Chromium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U	NS 200 6 10 2000 5 4 NS 5 NS 100	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS	0 0 11.7 82.1 * 0 * 0 115000
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J	NS 200 6 10 2000 5 4 NS 5 NS 100 NS	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS NS	0 0 11.7 82.1 * 0 * 0 115000
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U 5 U	0.11 U 1440 2 U 24.7 28.2 1 U 2 J 0.5 U 63000 5 U 2 J 5 U	NS 200 6 10 2000 5 4 NS 5 NS 100 NS 1300	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS NS NS	0 0 11.7 82.1 * 0 * 0 115000 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Ansenic Barium Benzene Beryillium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 SU	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J	NS 200 6 10 2000 5 4 NS 5 NS 100 NS 1300 300	1100 36000 15 0.045 2600 0.34 NS NS NS NS NS NS 1500 11000	0 0 11.7 82.1 0 0 11500 0 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryillium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 3 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U	NS 200 6 10 2000 5 4 NS 5 NS 1000 NS 1300 300 15	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS NS NS NS NS	0 0 11.7 82.1 * 0 * 0 115000 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes	0.045 J 27300 0.73 J 53.5 129 0.55 J 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 2.0 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U	NS 200 6 10 2000 5 4 NS 5 NS 1000 NS 1300 300 15 10000	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS NS NS NS NS NS NS NS NS NS NS NS	0 0 11.7 82.1 0 0 115000 0 0 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Anterior Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead map-xylenes Magnesium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 565 J 3 U 2.0 U 46500	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U	NS 200 6 10 2000 5 4 NS 5 NS 1000 NS 1300 300 NS 15 10000 NS	1100 36000 15 0.045 2600 0.34 NS NS NS NS NS NS NS NS NS NS NS NS NS	0 0 11.7 82.1 0 - 0 115000 0 0 0 279 0 43300
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryillium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 2.0 U 46500 67.3	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8	NS 200 6 10 2000 5 4 NS 5 NS 100 NS 1300 300 NS 50	1100 36000 15 0.045 2600 0.34 NS NS NS NS NS NS NS NS NS NS NS NS NS	0 0 11.7 82.1 * 0 115000 0 0 0 279 0 43300
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryilium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 61.6	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 2.0 U 46500 67.3 10 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U	NS 200 6 10 2000 5 4 NS 5 NS 1300 300 15 1000 NS 50 NS	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS NS NS 1500 11000 NS 210 NS 880 730	0 0 11.7 82.1 0 - 0 115000 0 0 0 279 - 43300
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadrium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N)	0.045 J 27300 0.73 J 53.5 129 0.55 J 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 1070 61.6 0.04 JB	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 5 U 6650 67.3 10 U 0.1 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U	NS 200 6 10 2000 5 4 NS 5 NS 1300 300 15 10000 NS 130000 NS 10000	1100 36000 15 0.045 2600 0.34 NS NS NS NS 730 1500 11000 NS 210 NS 880 730	0 0 11.7 82.1 * 0 115000 0 0 0 279 0 43300
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Antimony Ansenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N) o-Xylene	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 7070 61.6 0.04 JB	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 5 U 6650 J 3 U 2.0 U 46500 67.3 10 U 0.1 U	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U	NS 200 6 10 2000 5 4 NS 5 NS 100 NS 1300 NS 15 10000 NS 10000 10000 10000 10000	1100 36000 15 0.045 2600 0.34 NS NS NS NS NS NS NS NS NS NS NS NS 1500 11000 NS 210 NS 210 NS 211 NS NS 211 NS NS 211 NS NS 211 NS NS 211 NS 21 NS NS 21 NS NS 21 NS NS NS NS NS NS NS NS NS NS NS NS NS	0 0 11.7 82.1 * 0 115000 0 0 0 279 0 43300
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryillium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N) o-Xylene Perchlorate	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 1070 61.6 0.04 JB	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 6565 J 3 U 2.0 U 46500 67.3 10 U 0.1 U NT	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 63000 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U 1 U 0.056	NS 200 6 10 2000 5 4 NS 5 NS 1300 300 15 10000 NS 10000 NS	1100 36000 15 0.045 2600 0.34 NS NS NS NS NS NS NS NS NS NS	0 0 11.7 82.1 * 0 115000 0 0 0 279 0 * 43300 1020
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryilium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N) o-Xylene Perchlorate Potassium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 7070 61.6 0.04 JB 0.17 J	0.11 U 36.5 BJ 2 U 19 23.3 1 U 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 2.0 U 46500 67.3 10 U 0.1 U 1 U NT 1840 J	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U 1 U 0.056	NS 200 6 10 2000 5 4 NS 1000 NS NS 10000 NS NS NS NS NS 10000 NS NS NS 10000 NS NS NS NS NS NS NS NS NS	1100 36000 15 0.045 2600 0.34 NS NS NS NS NS NS NS 730 11000 NS 210 NS 880 730 10000 2110 3.66 NS	0 0 11.7 82.1 0 0 115000 0 0 0 279 0 - - - 0 0 279 0 - - -
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Antimony Ansenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Niickel Niitrate as N (NO3-N) o-Xylene Perchlorate Potassium Sodium	0.045 J 27300 0.73 J 53.5 129 0.55 J 10 U 0.2 J 95700 41.6 27.5 53.3 65800 27.5 53.3 65800 1070 1070 1070 1070 1070 1070 1070 1	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 5 U 0.1 U 10 U 0.1 U 10 U 0.1 U 11 U 0.1	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U 1 U 0.056 2090 28200	NS 200 6 10 2000 5 4 NS 5 NS 1300 NS 1300 NS 140000 NS 10000 NS 10000 NS 10000 NS 10000 NS 10000 NS NS NS NS NS NS	1100 36000 15 0.045 2600 0.34 NS NS NS 730 1500 11000 NS 210 NS 210 NS 210 NS NS NS NS NS NS NS NS NS NS NS NS NS	0 0 11.7 82.1 0 0 115000 0 0 0 279 0 - - - - 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Antimony Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N) o-Xylene Perchlorate Potassium Sodium Thallium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 7070 61.6 0.04 JB 0.17 J NT 8310 832400 0.29 J	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 5 U 10	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U 1 U 0.056 2090 28200 1 U	NS 200 6 10 2000 5 4 NS 5 NS 100 300 15 10000 NS 10000 10000 NS NS NS NS 120 10000 NS	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS 1500 11000 NS 210 NS 880 730 10000 210 3.6 NS NS NS	0 0 11.7 82.1 0 0 115000 0 0 0 279 0 43300 1020 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N) o-Xylene Perchlorate Potassium Sodium Thallium Toluene	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 1070 61.6 0.04 JB 0.17 J NT 8310 32400 0.29 J	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 5 U 5 U 10 U 0.1 U 10 U 0.1 U 10 U 0.3 U 10	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U 1 U 0.056 2090 28200 1 U 1 U	NS 200 6 10 2000 5 4 NS 5 NS 1300 300 15 10000 NS NS 10000 NS NS NS NS 10000 NS NS NS 10000 NS NS NS 10000 NS	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS NS NS NS NS NS NS 1500 11000 NS 210 NS 880 730 1000 210 3.6 NS NS NS NS	0 0 11.7 82.1 0 0 115000 0 0 0 279 0 - - - - 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Load Line 12	LL12mw-242	Unconsolidated	Aluminum Antimony Antimony Antimony Antimony Arsenic Barium Benzene Beryllium bis(2-Ethylhexyl) phthalate Cadmium Calcium Chromium Cobalt Copper Iron Lead m&p-Xylenes Magnesium Manganese Nickel Nitrate as N (NO3-N) o-Xylene Perchlorate Potassium Sodium Thallium	0.045 J 27300 0.73 J 53.5 129 0.55 J 1.3 10 U 0.2 J 95700 41.6 27.5 53.3 65800 24.3 0.31 J 59900 7070 61.6 0.04 JB 0.17 J NT 8310 832400 0.29 J	0.11 U 36.5 BJ 2 U 19 23.3 1 U 10 U 10 U 0.5 U 69300 5 U 5 U 5 U 5 U 5 U 5 U 10	0.11 U 1440 2 U 24.7 28.2 1 U 1 U 2 J 0.5 U 63000 5 U 2 J 5 U 4390 J 3 U 2 U 41400 99.8 10 U 0.1 U 1 U 0.056 2090 28200 1 U	NS 200 6 10 2000 5 4 NS 5 NS 100 300 15 10000 NS 10000 10000 NS NS NS NS 120 10000 NS	1100 36000 15 0.045 2600 0.34 NS 4.8 NS NS 1500 11000 NS 210 NS 880 730 10000 210 3.6 NS NS NS	0 0 11.7 82.1 0 0 115000 0 0 0 279 0 43300 1020 0 0

Table 4-3. Summary of Constituents Detected - January, April and July 2008

	Wall	Monitored	Compound or Element	Jan-08	Apr-08 Level	Jul-08	MCL	Region 9 PRG	Facility-Wi
Area	Well Number	Monitored Zone	Detected	Level (ug/L)	(ug/L)	Level (ug/L)	(ug/L)	(ug/L)	Backgrou (ug/L)
Load Line 12	LL12mw-243	Unconsolidated	2.6-Dinitrotoluene	0.11 U	0.12 U	0.059 J	NS NS	36	(ug/L)
Lodd Line 12	LETZIIW 243	Oriconsolidated	2-Butanone	10 U	0.57 J	10 U	NS	1900	*
			alpha-BHC	0.03 U	0.03 U	0.0082 J	NS	0.011	*
			Aluminum	67.8	220 B	50 U	200	36000	0
			Antimony	2 U	2 U	0.21 J	6	15	0
			Arsenic	7.5	16.5	20.1	10	0.045	11.7
			Barium	32.4	34.6	37.9	2000	2600	82.1
			beta-BHC	0.03 U	0.011 J	0.017 J	NS	0.037	*
			Calcium	125000	126000	129000	NS	NS	115000
			Cobalt	2.1	5 U	5 U	NS	730	0
			Iron	2460 J	2180 J	2540 J	300	11000	279
			m&p-Xylenes	2 U	0.9 J	2 U	10000	210	*
			Magnesium	83000 J	84800	84200	NS	NS	43300
			Manganese	1070	928	862	50	880	1020
			Nitrate as N (NO3-N)	1.1	0.1 U	0.04 J	10000	1000	*
			Nitrobenzene	0.051 J	0.12 U	0.11 U	NS	3	*
			Nitrocellulose	0.16 J	0.15 J	0.5 U	NS	NS	*
			Potassium	3640 J	3270 J	3090	NS	NS	2890
			Sodium	23300	23200	22700	NS	NS	45700
			Total Xylenes	2 U	0.9 J	2 U	10000	210	*
	1140		Zinc	5.6 JB	3.2 J	5.8 J	5000	11000	60.9
Load Line 12	LL12mw-244	Unconsolidated	2-Butanone	10 U	0.84 J	10 U	NS	1900	*
			4-Nitrotoluene	0.11 U	0.1 J	0.11 U	NS	61	
			Aluminum	83.5	9040	26.8 J	200	36000	0
			Antimony	0.34 J	0.95 J	1.1 J	6	15	0
			Arsenic Barium	7.5 98.9	21.4 145	5 U 125	10 2000	0.045 2600	11.7 82.1
			Beryllium	98.9 1 U	0.4 J	125 1 U	4	2600 NS	82.1
			Calcium	79700	73500	83300	NS	NS NS	11500
			Chromium	5 U	12.4	5 U	100	NS	0
			Cobalt	5 U	9.5	5 U	NS	730	0
			Copper	5 U	14.2 J	5 U	1300	1500	0
			Iron	332	20700 J	61.8 J	300	11000	279
			Lead	3 U	6.9	3 U	15	NS	0
			m&p-Xylenes	2 U	0.88 J	2 U	10000	210	*
		Magnesium	25100	26300	25500	NS	NS	43300	
			Manganese	115	360	108	50	880	1020
			Nickel	10 U	22	10 U	NS	730	0
			Nitrate as N (NO3-N)	0.01 U	0.1 U	0.03 J	10000	1000	*
			Nitrocellulose	0.2 J	0.5 UJ	0.5 U	NS	NS	*
			Perchlorate	NT	NT	0.015 J	NS	3.6	*
			Potassium	2190	4340 J	2320	NS	NS	2890
			Sodium	9120	7430	8210	NS	NS	45700
			Total Xylenes	2 U	0.88 J	2 U	10000	210	*
			Vanadium	10 U	14.1	10 U	NS	36	0
			Zinc	3 JB	46.4	3.2 J	5000	11000	60.9
Load Line 12	LL12mw-245	Unconsolidated	2,6-Dinitrotoluene	0.1 U	0.1 J	0.1 U	NS	36	*
			Acetone	10 U	1.1 J	10 U	NS	610	*
			Aluminum	27.6 J	50 U	52.9 J	200	36000	0
			Arsenic	24.4 J	5 U	7.3 B	10	0.045	11.7
			Barium	32.6	30.2	29	2000	2600	82.1
			beta-BHC	0.03 U	0.03 U	0.012 J	NS	0.032	*
			bis(2-Ethylhexyl) phthalate	3.9 J	10 U	0.012 J	NS	4.8	*
			Calcium	150000	130000	146000	NS	NS	11500
			Iron	1670 J	73.5 J	426 J	300	11000	279
			Magnesium	72100	63700	69800	NS	NS	43300
			Manganese	301	56.5	186	50	880	1020
			Nitrate as N (NO3-N)	0.1 B	0.08 J	0.02 J	10000	1000	2000
			Potassium	3640	3140 J	3280	NS	NS 190	2890
			Selenium	5 U	5 U	4.7 J	50 NS	180 NS	0 45700
			Sodium Zinc	24000 2.5 UJ	21300 2.9 J	22600 2.8 J	NS 5000	NS 11000	45700 60.9
Load Line 12	LL12mw-246	Unconsolidated	2-Butanone	2.5 UJ 10 U	0.86 J	2.8 J 10 U	NS	1900	ou.9 *
LUAU LINE 12	LL IZIIIW-Z46	OHCOHSOHOATEG	Aluminum	50 U	19.7 JB	50 U	200	36000	0
			Arsenic	32.7	29.5	41.6	10	36000 NS	11.7
			Barium	40.6	29.5 42.4	41.0	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	40.6 10 U	42.4 10 U	42.2 2.9 J	NS NS	4.8	0Z. I
			Calcium	103000	108000	110000	NS	NS	11500
			Iron	1430	1130 J	2120	300	11000	279
			Magnesium	50900	53900	52900	NS	NS	43300
			Manganese	73.2	78.6	69.3	50	880	1020
			Mercury	0.2 U	0.2 U	0.15 BJ	2	11	0
			Nitrocellulose	0.2 U	0.2 U	0.13 J	NS	NS	*
			Potassium	7430	7520 J	5250	NS	NS	2890
	l	l						NS	
			Sodium	22400	23300	22400	NS		45700

Table 4-3. Summary of Constituents Detected - January, April and July 2008

Decision   Decision		Well	Monitored	Compound or Element	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL	Region 9 PRG	Facility-Wide Background
Balding   1700	Area									
Barlon										
Burking 1200   B12mw 011   Bedrack   Burking 1200   B12mw 011   Bedrack   Burking 1200   B12mw 012   Burking 1200   Burking 1200   B12mw 012   Burking 1200   Burk	ŭ				NT	5.4 J	50 U	2000	2600	256
Californ										*
Minimage										*
Building 1200   B12mm 011   Beckook   Bizzer of 17   Bizzer of 1										53100
Magnesium										1/20
Management   Mill   Management   Mill   Mi										
Building 1200   B12mm 011   Bedrox   Bedrox   Bedrox   Bedrox   Bedrox   Britangian   Bilane 012   Bilane 013   Bedrox   Bedrox   Bedrox   Bilane 014   Bilane										
Building 1200										*
Building 1200				Potassium	NT	675 J	660 J	NS	NS	5770
Building   1200										
Calcium										
Fig.	Building 1200	uliaing 1200 B12mw-011	Bedrock							
Magnesiam										
Magnesiam   NT   9700   8940   NS   NS   1500										1430
Managanese   NT   522   538   500   889   1340										15000
Nickel   Nil   10 U   3.3 J   NS   730   83.4										
Expension										
Polassiam   NT   1340   2280   NS   NS   5170										*
Building 1200										5770
Building 1200   B12mw 012   Bedrock   Acelone   NT   10   0   0.69   NS   36   0   0.52				Sodium	NT	5020	4620	NS	NS	51400
Building 1200										*
Building 1200   Bl2mw-012   Bedrock   Acetone   NT   12 J   10 JB   NS   610   150										
Barlum										52.3
DisC2-Ethylexyl phthalate	Building 1200	B12mw-012	Bedrock							*
Calcium										256
Incolumn										E2100
Magnesian   NT   38x00   32500   NS   NS   15000										
Manganese   NT   9.5 J   262   50   880   1340										
Nickel										
Potassium										
C-Block Quarry   CBLmw-001   Bedrock   Aluminum   NT   94 J   8.5 JB   5000   11000   52.3				Potassium	NT	2260	2050	NS	NS	
C-Block Quarry   C-BLmw-001				Sodium	NT	17700	15800	NS	NS	51400
Barlum					NT	9.4 J	8.5 JB	5000	11000	52.3
Bedrock   Bedrock   Bedrock   Calcium   NT   10 U   37 J   NS   4.8   Calcium   NT   2860   3220 J   NS   NS   53100	C-Block Quarry	CBLmw-001	Bedrock							
Calcium										256
Fron										F2100
Magnesium   NT   1780   1910   NS   NS   15000										
Manganese   NT   4.8 JB   4.4 J   50   880   1340										
Nickel   NT   5.8										
Perchlorate										
Potassium										*
C-Block Quarry   CBLmw-002   Bedrock   Barlum   NT   2100   633 J   NS   NS   51400										5770
Vanadium				Silver	NT	3.2 J	5 U	NS	180	0
C-Block Quarry   CBLmw-002   Bedrock   Aluminum   NT   30.2 J   50 U   200   36000   0   0   0   0   0   0   0   0   0					NT	2100	633 J	NS	NS	51400
C-Block Quarry   CBLmw-002   Bedrock   Altuminum   NT   30.2 J   50 U   200   36000   0										
Barium										
Dis(2-Ethylhexyl) phthalate	C-Block Quarry	CBLmw-002	Bedrock							
Cadmium										250 *
Calcium										n
Iron										
Magnesium										
Manganese										
Nickel   NT   7.7 J   8 J   NS   730   83.4										
Perchlorate				Nickel						83.4
Potassium										*
C-Block Quarry   CBLmw-003   Bedrock   Bedrock   Barium   NT   2070   1740   NS   NS   51400   52.3										*
C-Block Quarry   CBLmw-003   Bedrock   Acetone   NT   37.2   30.2 J   5000   11000   52.3										
C-Block Quarry   CBLmw-003   Bedrock   Acetone   NT   1.2 J   10 JB   NS   610   1										
Barium         NT         45.7         44.3 J         2000         2600         256           bis(2-Ethylhexyl) phthalate         NT         10 U         2.6 J         NS         4.8         *           Calcium         NT         13900         14300 J         NS         NS         53100           Magnesium         NT         3500         3020         NS         NS         15000           Manganese         NT         3.6 JB         2.7 J         50         880         1340           Nickel         NT         3.4 J         4.4 J         NS         730         83.4           Nitrocellulose         NT         0.5 U         0.15 J         NS         NS         *           Pertoliorate         NT         NT         0.087         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400	C-Block Ouerns	CBI min 003	Podrock							52.3
bis(2-Ethylhexyl) phthalate         NT         10 U         2.6 J         NS         4.8         *           Calcium         NT         13900         14300 J         NS         NS         53100           Manganesium         NT         3500         3020         NS         NS         15000           Manganese         NT         3.6 JB         2.7 J         50         880         1340           Nickel         NT         3.4 J         4.4 J         NS         730         83.4           Nitrocellulose         NT         0.5 U         0.15 J         NS         NS         *           Perchlorate         NT         NT         70 NS         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400	G-DIOCK QUAITY	CDLIIW-003	DEGLOCK							256
Calcium         NT         13900         74300 J         NS         NS         53100           Magnesium         NT         3500         3020         NS         NS         15000           Manganese         NT         3.6 JB         2.7 J         50         880         1340           Nickel         NT         3.4 J         4.4 J         NS         730         83.4           Nitrocellulose         NT         0.5 U         0.15 J         NS         NS         *           Perchlorate         NT         NT         NT         0.087         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400										*
Magnesium         NT         3500         3020         NS         NS         15000           Manganese         NT         3.6 JB         2.7 J         50         880         1340           Nickel         NT         3.4 J         4.4 J         NS         730         83.4           Nitrocellulose         NT         0.5 U         0.15 J         NS         NS         -           Perchlorate         NT         NT         NT         0.087         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400										53100
Manganese         NT         3.6 JB         2.7 J         50         880         1340           Nickel         NT         3.4 J         4.4 J         NS         730         83.4           Nitrocellulose         NT         0.5 U         0.15 J         NS         NS         5           Perchlorate         NT         NT         0.087         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400										
Nickel         NT         3.4 J         4.4 J         NS         730         83.4           Nitrocellulose         NT         0.5 U         0.15 J         NS         NS         *           Perchlorate         NT         NT         0.087         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400										
Perchlorate         NT         NT         0.087         NS         3.6         *           Potassium         NT         917 J         950 J         NS         NS         5770           Sodium         NT         1140         1130         NS         NS         51400										
Potassium NT 917 J 950 J NS NS 5770 Sodium NT 1140 1130 NS NS 51400				Nitrocellulose			0.15 J	NS		*
Sodium NT 1140 1130 NS NS 51400							0.087		3.6	
Zinc NT 7.6 J 10.1 JB 5000 11000 52.3										
				Zinc	NT	7.6 J	10.1 JB	5000	11000	52.3

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wid
Aron	Well	Monitored	Element Detected	Level	Level	Level	MCL (ug/L)	PRG	Backgroun
Area C-Block Quarry	Number CBLmw-004	Zone Bedrock	Acetone	(ug/L) NT	(ug/L) 1.5 J	(ug/L) 10 JB	(ug/L) NS	(ug/L) 610	(ug/L)
C-block Quality	CBLIIW-004	Deulock	Aluminum	NT	469	50 U	200	36000	0
			Barium	NT	19.1	16 J	2000	2600	256
			Calcium	NT	7150	6260 J	NS	NS	53100
			Iron	NT	40.7 J	54.2	300	11000	1430
			Magnesium	NT	2340	2360	NS	NS	15000
			Manganese	NT	21.4 J	20.1	50	880	1340
			Perchlorate	NT	NT	0.058	NS	3.6	*
			Potassium	NT	1190	1910 J	NS	NS	5770
			Sodium	NT	1300	1470 J	NS	NS	51400
			Zinc	NT	9 J	9 J	5000	11000	52.3
Central Burn Pits	CBPmw-001	Unconsolidated	1,3,5-Trinitrobenzene	NT	0.031 J	0.11 U	NS	1100	
			Arsenic	NT	80.6	77.3 J	10	0.045	11.7
			Barium	NT NT	6.8 J	7 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate Calcium	NT	1.6 J 326000	2.3 J 338000	NS NS	4.8 NS	115000
			Cobalt	NT	5 U	2.1 J	NS	730	0
			Iron	NT	6940 J	7960	300	11000	279
			m&pXylenes	NT	0.88 J	2 U	10000	210	*
			Magnesium	NT	177000	178000	NS	NS	43300
			Manganese	NT	104	104	50	880	1020
			Potassium	NT	18400 J	11200 J	NS	NS	2890
			Sodium	NT	72200	67300	NS	NS	45700
			Total Xylenes	NT	0.88 J	2 U	10000	210	*
			Zinc	NT	4.6 J	3 JB	5000	11000	60.9
Central Burn Pits	CBPmw-002	Unconsolidated	2,6-Dinitrotoluene	NT	0.098 U	0.075 J	NS	36	*
			Aluminum	NT	24.9 JB	51.3 J	200	36000	0
			Arsenic	NT	15.3	17.5	10	0.045	11.7
			Barium	NT	11.2	10 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.6 J	2.2 J	NS	4.8	*
			Calcium	NT	166000	160000 J	NS	NS	115000
			Cobalt	NT	5 U	1.9 J	NS	730	0
			Iron	NT	426	1310	300	11000	279
			Magnesium	NT	106000	99800	NS 50	NS	43300
			Manganese	NT NT	66.7 0.5 R	111	NS	880	1020
			Nitrocellulose Potassium	NT	3490 J	0.13 J <i>3210</i>	NS	3.6 NS	2890
			Sodium	NT	52700	48900	NS	NS	45700
			Zinc	NT	3.5 J	2.6 JB	5000	11000	60.9
Central Burn Pits	CBPmw-003	v-003 Unconsolidated	1,3-Dinitrobenzene	NT	0.11 U	0.054 J	NS	NS	*
Comman Dann 1 No	021 1111 000	w-003 Unconsolidated	2,6-Dinitrotoluene	NT	0.11 U	0.063 J	NS	36	*
			Arsenic	NT	17.2	20.7 J	10	0.045	11.7
			Barium	NT	14	13.3	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.1 J	3 J	NS	4.8	*
			Calcium	NT	147000	159000	NS	NS	115000
			Iron	NT	929 J	1440	300	11000	279
			Magnesium	NT	87800	93100	NS	NS	43300
			Manganese	NT	49	107	50	880	1020
			Nitrobenzene	NT	0.059 J	0.085 J	NS	3	*
			Nitrocellulose	NT	0.5 R	0.2 J	NS	NS	*
			Potassium	NT	5670 J	4760 J	NS	NS	2890
			Sodium	NT	94100	89500	NS	NS	45700
0 1 10 5	000	.,	Zinc	NT	3.5 J	2.3 JB	5000	11000	60.9
Central Burn Pits	CBPmw-004	Unconsolidated	Aluminum	NT	243 JB	50 U	200	36000	11.7
			Arsenic	NT	42.1 J	29.8	10	0.045	11.7
			Barium beta-BHC	NT NT	72 0.03 U	61.7 J	2000 NS	2600 0.037	82.1
			beta-BHC bis(2-Ethylhexyl) phthalate	NT NT	0.03 U 10 U	0.012 J 3.7 J	NS NS	4.8	*
			Calcium	NT	70700	71700 J	NS	NS	115000
			Carbon disulfide	NT	0.42 J	71700 J	NS	1000	*
			Iron	NT	1150 J	1150	300	11000	279
			Magnesium	NT	34800	31500	NS	NS	43300
			Manganese	NT	51.3	54	50	880	1020
			Nitrocellulose	NT	0.13 J	0.13 J	NS	NS	*
			Potassium	NT	2080 J	1760	NS	NS	2890
			Sodium	NT	18800	16200	NS	NS	45700
			Thallium	NT	0.16 J	1 U	2	2	0
	<u> </u>		Zinc	NT	3.3 J	10 U	5000	11000	60.9
Control Durn Ditc	CBPmw-006	Unconsolidated	Aluminum	NT	24.8 JB	NT	200	36000	0
Central Burn Pits CBPmw-006		Arsenic	NT	4.2 J	NT	10	0.045	11.7	
Central Bulli Pits			Barium	NT	115 J	NT	2000	2600	82.1
Central Burn Pits							NIC		115000
Central burn Pits			Calcium	NT	70,000 J	NT	NS	NS	115000
Central Duri Pits			Calcium Iron	NT	276	NT	300	11000	279
Central Buril Pits			Calcium Iron Magnesium	NT NT	276 27800 J	NT NT	300 NS	11000 NS	279 43300
Ceniiai buiii Piis			Calcium Iron Magnesium Manganese	NT NT NT	276 27800 J 45.5 J	NT NT NT	300 NS NS	11000 NS NS	279 43300 43300
Cenial built Fits			Calcium Iron Magnesium Manganese Potassium	NT NT NT NT	276 27800 J 45.5 J 1650 J	NT NT NT NT	300 NS NS NS	11000 NS NS NS	279 43300 43300 2890
Central built Fits			Calcium Iron Magnesium Manganese	NT NT NT	276 27800 J 45.5 J	NT NT NT	300 NS NS	11000 NS NS	279 43300 43300

Table 4-3. Summary of Constituents Detected - January, April and July 2008

	Well	Monitored	Compound or Element	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL	Region 9 PRG	Facility-W Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Central Burn Pits	CBPmw-008	Unconsolidated	2,6-Dinitrotoluene	NT	0.053 J	0.1 U	NS	36	*
			Acetone	NT	1.7 J	10 U	NS	610	*
			Aluminum	NT	76.5 B	50 U	200	36000	0
			Arsenic	NT	4.2 J	5 U	10	0.045	11.7
			Barium	NT	11.2 J	10.6	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	3.4 J	NS	4.8	*
			Calcium	NT	191000 J	192000	NS	NS	115000
			Iron	NT	526 J	119	300	11000	279
			Magnesium	NT	83300 J	80500	NS	NS	43300
			Manganese	NT	78.8 J	28.8	50	880	1020
			Nitrocellulose	NT	0.5 U	0.18 J	NS	NS	*
			Potassium	NT	4460 J	4580 J	NS	NS	2890
			Sodium	NT	110000 J	121000	NS	NS	45700
			Zinc	NT	10 U	2.8 JB	5000	11000	60.9
Cobbs Pond	CPmw-001	Unconsolidated	Aluminum	NT	50.8 B	50 U	200	36000	00.7
CODDS PONG	CPIIIW-001	Unconsolidated		NT	9.4 J	23.8	2000		82.1
			Barium					2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	3.1 J	NS	4.8	44500
			Calcium	NT	32900	62600	NS	NS	11500
			Cyanide	NT	0.01 U	0.0072 J	NS	730	
	I		HMX	NT	0.11 U	0.053 J	NS	1800	*
	I		Iron	NT	36.6 J	50 U	300	11000	279
	I		Magnesium	NT	7840	13700	NS	NS	43300
	I		Manganese	NT	1.2 J	1.4 J	50	880	1020
	I		Nitrocellulose	NT	0.5 UJ	0.14 J	NS	NS	*
	I		Potassium	NT	246 J	718 J	NS	NS	2890
	I		Sodium	NT	4940	6520	NS	NS	45700
	I		Zinc	NT	2.6 J	3.3 JB	5000	11000	60.9
Cobbs Pond	CPmw-002	Unconsolidated	Acetone	NT	10 U	10 JB	NS	610	*
Cours rolla	0111111 002	Onconsolidated	Aluminum	NT	59.2 B	50 U	200	36000	0
			Barium	NT	50.3	48.2	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U		NS	4.8	02.1
						16			11500
			Calcium	NT	101000	96400	NS	NS	11500
			Iron	NT	44.4 J	50 U	300	11000	279
			Magnesium	NT	30400	28100	NS	NS	43300
			Manganese	NT	300	282	50	880	1020
			Nitrocellulose	NT	0.5 UJ	0.15 J	NS	NS	*
			Potassium	NT	697 J	733 J	NS	NS	2890
			Sodium	NT	13600	13700	NS	NS	45700
			Zinc	NT	3.5 J	4.9 JB	5000	11000	60.9
Cobbs Pond	CPmw-003	Unconsolidated	2,6-Dinitrotoluene	NT	0.054 J	0.073 J	NS	36	*
			2-Butanone	NT	0.58 J	10 U	NS	1900	*
			Aluminum	NT	41.1 JB	50 U	200	36000	0
			Arsenic	NT	7.1	9 B	10	0.045	11.7
			Barium	NT	43.2	80.2 J	2000	2600	82.1
			beta-BHC	NT			NS		0Z.1
					0.016 J	0.012 J		0.037	*
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.3 J	NS	4.8	44500
			Calcium	NT	22300	41000 J	NS	NS	11500
			delta-BHC	NT	0.012 J	0.03 U	NS	0.052	*
	I		Iron	NT	757 J	584	300	11000	279
	I		Magnesium	NT	3500	7040	NS	NS	43300
	I		Manganese	NT	96.5	177	50	880	1020
	I		Potassium	NT	1250 J	1570	NS	NS	2890
	I		Sodium	NT	17700	20100	NS	NS	45700
	I		Zinc	NT	2.4 J	2.9 JB	5000	11000	60.9
Cobbs Pond	CPmw-004	Unconsolidated	2-Butanone	NT	0.63 J	10 U	NS	1900	*
			Barium	NT	16	14.9	2000	2600	82.1
	I		bis(2-Ethylhexyl) phthalate	NT	10 U	2.2 J	NS	4.8	*
	I		Calcium	NT	60600	57300	NS	NS	11500
	I		Magnesium	NT	23300	21600	NS	NS	43300
	I								
	I		Manganese	NT	0.51 J	1.6 J	50 NC	880 NC	1020
	I		Nitrocellulose	NT	0.5 UJ	0.17 J	NS	NS	
	I		Potassium	NT	808 J	805 J	NS	NS	2890
	<b>.</b>		Sodium	NT	6340	7180	NS	NS	45700
Cobbs Pond CPmw-005	CPmw-005	Unconsolidated	Acetone	NT	1.2 J	10 U	NS	610	*
	1		Arsenic	NT	29.3	30.3 J	10	0.045	11.7
CODDSTORIA	1		Barium	NT	154	144	2000	2600	82.1
CODDS I Olid		1	bis(2-Ethylhexyl) phthalate	NT	10 U	1.6 J	NS	4.8	*
Cobbs Ford				NT	58800	59300	NS	NS	11500
CODDSTONA			Calcium						
CODDSTONA			Calcium Iron		408 J	384	300	11000	279
CODDSTONA			Iron	NT	408 J	384 24500			
COURS FUND			Iron Magnesium	NT NT	408 J 25000	24500	NS	NS	43300
COODSTONA			Iron Magnesium Manganese	NT NT NT	408 J 25000 43.6	24500 44.7	NS 50	NS 880	43300 1020
Cours Ford			Iron Magnesium Manganese Nitrocellulose	NT NT NT NT	408 J 25000 43.6 0.18 J	24500 44.7 0.17 J	NS 50 NS	NS 880 NS	43300 1020 *
Cours Ford			Iron Magnesium Manganese	NT NT NT	408 J 25000 43.6	24500 44.7	NS 50	NS 880	43300 1020

Table 4-3. Summary of Constituents Detected - January, April and July 2008

	Well	Monitored	Compound or Element	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL	Region 9 PRG	Facility-Wi Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Cobbs Pond	CPmw-006	Unconsolidated	2-Butanone	NT	0.68 J	10 U	NS	1900	*
			Acetone	NT	4.7 J	10 U	NS	610	*
			Aluminum	NT	111 JB	50 U	200	36000	0
			Arsenic	NT	4.7 J	7 J	10	0.045	11.7
			Barium	NT	78.7	77.3	2000	2600	82.1
			Calcium	NT	92700	90800	NS	NS	115000
			Dibenxo(a,h)anthracene	NT	0.24 U	2.2 J	NS	0.0093	*
			Iron	NT	7820 J	6830	300	11000	279
			Magnesium	NT	27200	23900	NS	NS	43300
			Manganese	NT	2510	2320	50	880	1020
			Potassium	NT	2770 J	2940 J	NS	NS	2890
			Sodium	NT	33200	30700	NS	NS	45700
			Zinc	NT	4.9 J	9.2 BJ	5000	11000	60.9
Demolition Area 2	DA2mw-104	Unconsolidated	2,6-Dinitrotoluene	NT	0.069 J	0.1 U	NS	36	*
			2-Butanone	NT	0.57 J	10 U	NS	1900	*
			Aroclor 1242	NT	0.57 J	0.5 U	NS	0.034	*
			Barium	NT	14.6	14.7 J	2000	2600	82.1
			Calcium	NT	43500	45700 J	NS	NS	115000
			Magnesium	NT	12800	12800	NS	NS	43300
			Manganese	NT	0.98 J	0.93 J	50	880	1020
			Potassium	NT	646 J	644 J	NS	NS	2890
			Sodium	NT	3300	3750 J	NS	NS	45700
			Zinc	NT	5.4 J	8.5 JB	5000	11000	60.9
Demolition Area 2	DA2mw-105	Unconsolidated	2,6-Dinitrotoluene	NT	0.11 U	0.057 J	NS	36	*
			2-Butanone	NT	0.8 J	10 U	NS	1900	*
			Acetone	NT	10 JB	10 U	NS	610	*
			Arsenic	NT	5 U	8.2	10	0.045	11.7
			Barium	NT	55	58 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.6 J	NS	4.8	*
			Calcium	NT	80700	84200 J	NS	NS	115000
			Iron	NT	886 J	1260	300	11000	279
			Magnesium	NT	23000	23300	NS	NS	43300
Danillia Anno Cara DA Santa (A			Manganese	NT	341	252	50	880	1020
			Potassium	NT	1000 J	1190	NS	NS	2890
		Sodium	NT	7130	7670 J	NS	NS	45700	
		Zinc	NT	10 U	9.5 JB	5000	11000	60.9	
	Unconsolidated		NT	0.71 J	9.5 JB 10 U	NS		800.9	
Demolition Area 2	DA2mw-106	Unconsolidated	2-Butanone					1900	*
		Acetone	NT NT	10 JB	10 JB	NS 2000	610 2600		
		Barium		49.6	62.5 J			82.1	
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.4 J	NS	4.8	11500
			Calcium	NT	151000	156000	NS NS	NS 730	11500
			Cobalt	NT	9.6	8.5			0
			Iron	NT	9190 J	1620	300	11000	279
			Magnesium	NT	54100	54200	NS	NS	43300
			Manganese	NT	5640	3720	50	880	1020
			Nickel	NT	4.6 J	11.2 J	NS	730	0
			Potassium	NT					
			Sodium		1470 J	2590 J	NS	NS	2890
			NT	23300	18500 J	NS	NS NS	2890 45700	
			Zinc	NT	23300 10.6	18500 J 9.6 J	NS 5000	NS NS 11000	2890
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene	NT NT	23300 10.6 0.056 J	18500 J 9.6 J 0.1 U	NS 5000 NS	NS NS 11000 36	2890 45700 60.9
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone	NT NT NT	23300 10.6 0.056 J 0.7 J	18500 J 9.6 J 0.1 U 10 U	NS 5000 NS NS	NS NS 11000 36 1900	2890 45700
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene	NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U	18500 J 9.6 J 0.1 U	NS 5000 NS NS NS	NS NS 11000 36 1900 610	2890 45700 60.9
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic	NT NT NT NT	23300 10.6 0.056 J 0.7 J	18500 J 9.6 J 0.1 U 10 U	NS 5000 NS NS	NS NS 11000 36 1900 610 0.045	2890 45700 60.9 * * * 11.7
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium	NT NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5	18500 J 9.6 J 0.1 U 10 U 10 JB	NS 5000 NS NS NS	NS NS 11000 36 1900 610	2890 45700 60.9 *
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic	NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U 5 U	9.6 J 0.1 U 10 U 10 JB 3.6 J	NS 5000 NS NS NS	NS NS 11000 36 1900 610 0.045	2890 45700 60.9 * * 11.7 82.1
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium	NT NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5	9.6 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J	NS 5000 NS NS NS 10 2000	NS NS 11000 36 1900 610 0.045 2600	2890 45700 60.9 * * * 11.7
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC	NT NT NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J	9.6 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J 0.03 U	NS 5000 NS NS NS 10 2000 NS	NS NS 11000 36 1900 610 0.045 2600 0.037	2890 45700 60.9 * * 11.7 82.1
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate	NT NT NT NT NT NT NT	23300 70.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J	9.6 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J	NS 5000 NS NS NS 10 2000 NS NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8	2890 45700 60.9 * * * 11.7 82.1
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium	NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300	NS 5000 NS NS NS 10 2000 NS NS 10 2000	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS	2890 45700 60.9 
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron	NT N	23300 70.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J	78500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 0.03 U 0.89 J 89300 2920	NS 5000 NS NS NS 10 2000 NS N	NS NS 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 110000 1100	2890 45700 60.9 * 11.7 82.1 * 11500 279 43300
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 37.5 0.014 J 2.5 J 40000 2360 J	78500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300	NS 5000 NS NS NS 10 2000 NS N	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS	2890 45700 60.9 * 11.7 82.1 * 11500 279 43300
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J 0.03 U 0.89 J 89300 2920 22300 295	NS 5000 NS NS NS 10 2000 NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880	2890 45700 60.9 - 11.7 82.1 - 11500 279 43300 1020
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate	NT NT NT NT NT NT NT NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT	78500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J	NS 5000 NS NS NS 10 2000 NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6	2890 45700 60.9 - 11.7 82.1 - 11500 279 43300 1020 - 2890
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium	NT NT NT NT NT NT NT NT NT NT NT NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J	78500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2710 J	NS 5000 NS NS NS 10 2000 NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6 NS	2890 45700 60.9 - 11.7 82.1 - 11500 279 43300 1020 - 2890
Demolition Area 2	DA2mw-108	Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 37.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J 13600	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2710 J 10300 J	NS 5000 NS NS NS 10 2000 NS	NS NS 11000 36 1900 610 0.037 4.8 NS 11000 NS 880 3.6 NS NS	2890 45700 60.9 
	DA2mw-108	Unconsolidated  Unconsolidated	Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bisi(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 1372 NT 1980 J 16000 1 U 4 J	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2710 J 10300 J 0.28 J	NS 5000 NS NS NS 10 2000 NS N	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS NS 11000 NS 880 3.6 NS NS	2890 457000 60.9 - - 11.7 12.1 - - 11500 1300 1300 143300 43700 45700 60.9
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium	NT N	23300 10.6 0.056 J 0.77 J 10 U 5 U 31.5 0.014 J 2.55 J 40000 2360 J 15700 372 NT 1980 J 13600 1 U 4 J 22.5	78500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2710 J 10300 J 0.28 J 10 U	NS 5000 NS NS NS 10 2000 NS N	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 11000 NS 880 3.6 NS NS 11000 2600	2890 457000 60.9 - - 11.7 12.1 - - 11500 1300 1300 143300 43700 45700 60.9
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC	NT N	23300 10.6 10.6 10.7 J 10 U 5 U 37.5 0.014 J 2.5 J 40000 2360 J 15700 37.2 NT 1980 J 13600 1 U 4 J 2.2.5 0.03 U	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2770 J 10300 J 0.28 J 10 U	NS 5000 NS NS NS 10 2000 NS N	NS NS 11000 36 1900 610 0.037 4.8 11000 NS 880 3.6 NS NS 2 11000 2600 0.037	2890 45700 60.9 
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium Beta-BHC bis(2-Ethylhexyl) phthalate	NT N	23300 10.6 0.056 J 0.07 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J 13600 1 U 4 J 22.5 0.03 U 10 U	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2770 J 10300 J 0.28 J 10 U 20.3 J 0.011 J 2.7 J	NS 5000 NS NS NS 10 2000 NS NS NS 300 NS NS S0 NS S0 NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6 NS NS 11000 0.037 4.8	2890 45700 60.9 
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bisi(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC bisi(2-Ethylhexyl) phthalate Calcium Calci	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J 13600 1 U 4 J 22.5 0.03 U 10 U 93400	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2710 J 10300 J 10 U 203 J 0.011 J 2.7 J 95400	NS 5000 NS N	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6 NS NS 2 11000 2600 0.037 4.8 NS	2890 45700 60.9 
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 372 NT 1980 J 13600 1 U 4 J 22.5 0.03 U 10 U 93400 50 U	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2770 J 10300 J 0.28 J 0.011 J 2.7 J 95400 29.3 J	NS 5000 NS N	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 11000 NS 880 NS 11000 2600 0.037 4.8 NS	2890 45700 60.9 
Demolition Area 2			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Manganesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Manganesium Manganesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium	NT N	23300 10.6 0.056 J 0.7 J 10 U 5 U 37.5 0.014 J 2.5 J 40000 37.2 NT 1980 J 13600 1 U 4 J 2.2.5 0.03 U 10 U 93400 50 U	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 35 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2710 J 10300 J 0.28 J 10 U 20.3 J 0.011 J 2.7 J 95400 293 J 36700	NS 5000 NS	NS NS NS 11000 NS	2890 45700 60.9 
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Manganese	NT N	23300 10.6 10.6 10.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J 13600 1 U 4 J 22.5 0.03 U 10 U 93400 50 U 37000 2.4 J	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2770 J 10300 J 0.28 J 10 U 20.3 J 0.011 J 2.7 J 95400 29.3 J 36700 50.7	NS 5000 NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6 NS NS 11000 0.037 4.8 NS 11000 0.037	2890 45700 60.9 
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bisi(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Zinc Barium beta-BHC bisi(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Zinc Barium beta-BHC bisi(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate	NT   NT   NT   NT   NT   NT   NT   NT	23300 10.6 0.056 J 0.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J 13600 1 U 4 J 22.5 0.03 U 10 U 93400 50 U 37000 2.4 J NT	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2770 J 10300 J 0.28 J 10 U 20.3 J 0.011 J 2.7 J 95400 29.3 J 36700 50.7 0.028 J	NS 5000 NS N	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6 NS NS 11000 2600 0.037 4.8 NS NS NS 11000 NS	2890 45700 60.9 
			Zinc 2,6-Dinitrotoluene 2-Butanone Acetone Arsenic Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Magnesium Manganese Perchlorate Potassium Sodium Thallium Zinc Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Iron Manganese	NT N	23300 10.6 10.6 10.7 J 10 U 5 U 31.5 0.014 J 2.5 J 40000 2360 J 15700 372 NT 1980 J 13600 1 U 4 J 22.5 0.03 U 10 U 93400 50 U 37000 2.4 J	18500 J 9.6 J 0.1 U 10 U 10 JB 3.6 J 3.5 J 0.03 U 0.89 J 89300 2920 32300 295 0.044 J 2770 J 10300 J 0.28 J 10 U 20.3 J 0.011 J 2.7 J 95400 29.3 J 36700 50.7	NS 5000 NS	NS NS 11000 36 1900 610 0.045 2600 0.037 4.8 NS 11000 NS 880 3.6 NS NS 11000 0.037 4.8 NS 11000 0.037	2890 457000 60.9 11.7 82.1 27 115000 433000 45700 60.9 82.1

Table 4-3. Summary of Constituents Detected - January, April and July 2008

	10/-11	Manitered	Compound or	Jan-08	Apr-08	Jul-08	MCI	Region 9	Facility-W Backgrou
Aron	Well Number	Monitored Zone	Element Detected	Level	Level (ug/L)	Level (ug/L)	MCL (ug/L)	PRG (ug/L)	
Area Demolition Area 2	DA2mw-110	Unconsolidated	2-Butanone	(ug/L) NT	(ug/L) 0.63 J	(ug/L) 10 U	NS NS	1900	(ug/L)
Demonition Area 2	DAZIIIW-110	Unconsolidated	Acetone	NT	10 U	10 JB	NS	610	*
			Aluminum	NT	57.7	50 U	200	36000	0
			Barium	NT	6.7 J	10.3 J	2000	2600	82.1
			beta-BHC	NT	0.03 U	0.0094 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.9 J	NS	4.8	*
			Calcium	NT	50900	55100	NS	NS	115000
			Iron	NT	78.3 J	50 U	300	11000	279
			Magnesium	NT	15700	17200	NS	NS	43300
			Manganese	NT	12.8	36	50	880	1020
			Potassium	NT	772 J	1030 J	NS	NS	2890
			Sodium	NT	4310	4880 J	NS	NS	45700
			Zinc	NT	10 U	3.8 J	5000	11000	60.9
Demolition Area 2	DA2mw-111	Unconsolidated	2-Butanone	NT	0.69 J	10 U	NS	1900	*
			Acetone	NT	10 U	10 JB	NS	610	*
			Barium	NT	22.9	20.6 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	2 J	NS	4.8	*
			Calcium	NT	103000	95300	NS	NS	11500
			Magnesium	NT	40200	36200	NS	NS	43300
			Manganese	NT	238	40.9	50	880	1020
			Perchlorate	NT	NT	0.04 J	NS	3.6	*
			Potassium	NT	2940 J	3150 J	NS	NS	2890
			Sodium	NT	28300 J	24300 J	NS	NS	45700
	<u>                                     </u>		Zinc	NT	7.6 J	7.5 J	5000	11000	60.9
Demolition Area 2	DA2mw-112	Unconsolidated	2-Butanone	NT	0.87 J	10 U	NS	1900	*
			Acetone	NT	10 JB	10 U	NS	610	*
			Arsenic	NT	5 U	5	10	0.045	11.7
			Barium	NT	21.1	22.9 J	2000	2600	82.1
			beta-BHC	NT	0.03 U	0.016 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	NT	10 U	0.88 J	NS	4.8	*
			Calcium	NT	78400	92700 J	NS	NS	11500
			Iron	NT	2350 J	4980	300	11000	279
			Magnesium	NT	20100	20100	NS	NS	43300
			Manganese	NT	544	724	50	880	1020
			Perchlorate	NT	NT	0.044 J	NS	3.6	*
			Potassium	NT	1730 J	1550	NS	NS	2890
			Sodium	NT	4830	4040 J	NS	NS	45700
			Zinc	NT	4.3 J	8.7 JB	5000	11000	60.9
Demolition Area 2	DA2mw-113	-113 Unconsolidated	2,6-Dinitrotoluene	NT	0.068 J	0.1 U	NS	36	*
			2-Butanone	NT	0.87 J	10 U	NS	1900	*
			Acetone	NT	10 JB	10 U	NS	610	*
			Barium	NT	38.5	41.8 J	2000	2600	82.1
			Calcium	NT	66500	71100 J	NS	NS	11500
			Iron	NT	2730 J	3390	300	11000	279
			Magnesium	NT	16800	17100	NS	NS	43300
			Manganese	NT	507	340	50	880	1020
			Perchlorate	NT	NT	0.047 J	NS	3.6	*
			Potassium	NT	1010 J	1170	NS	NS	2890
			Sodium	NT	2950	2800 J	NS	NS	45700
			Zinc	NT	3.1 J	7.9 JB	5000	11000	60.9
Demolition Area 2	DETmw-003	Unconsolidated	Acetone	NT	10 JB	NT	NS	610	*
			Arsenic	NT	9.9	NT	10	0.045	11.7
			Barium	NT	47.8	NT	2000	2600	82.1
			Calcium	NT	82800	NT	NS	NS	11500
			Iron	NT	1640 J	NT	300	11000	279
			Magnesium	NT	31600	NT	NS	NS	43300
			Manganese	NT	281	NT	50	880	1020
			Potassium	NT	1490 J	NT	NS	NS	2890
			Sodium	NT	11400	NT	NS	NS	45700
Demolition Area 2	DETmw-004	Unconsolidated	2,4,6-TNT	NT	0.097 J	NT	NS	2.2	*
			Acetone	NT	10 JB	NT	NS	610	*
			Antimony	NT	0.15 J	NT	6	15	0
			Barium	NT	42.4	NT	2000	2600	82.1
			Calcium	NT	106000	NT	NS	NS	11500
			HMX	NT	2.1	NT	NS	1800	*
			Magnesium	NT	22400	NT	NS	NS	43300
			Manganese	NT	1.5 J	NT	50	880	1020
			Potassium	NT	1460 J	NT	NS	NS	2890
	I	Ì	RDX	NT	2.9	NT	NS	0.61	*
			Sodium	NT	2900	NT	NS	NS	45700

Table 4-3. Summary of Constituents Detected - January, April and July 2008

	Well	Monitored	Compound or Element	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL	Region 9 PRG	Facility-Wi Backgrou
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Erie	EBGmw-123	Unconsolidated	2-Nitrotoluene	NT	0.18 J	0.1 U	NS	61	*
Burning Grounds			Arsenic	NT	31.6 J	38.4	10	0.045	11.7
			Barium	NT	186 J	175 J	2000	2600	82.1
			beta-BHC	NT	0.03 U	0.018 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	NT	10 UJ	1.7 J	NS	4.8	*
			Calcium	NT	88800 J	89800	NS	NS	115000
			Iron	NT	3500	5190	300	11000	279
			Magnesium	NT	15100 J	15500	NS	NS	43300
			Manganese Nitrobenzene	NT NT	154 J 0.09 J	135 0.1 U	50 NS	880	1020
			Potassium	NT	945 J	943 J	NS	NS	2890
			Sodium	NT	7700 J	7820	NS	NS	45700
			Zinc	NT	10 U	2.8 J	5000	11000	60.9
Erie	EBGmw-124	Unconsolidated	Arsenic	NT	42.3 J	40.1	10	0.045	11.7
Burning Grounds			Barium	NT	171 J	158 J	2000	2600	82.1
3			bis(2-Ethylhexyl) phthalate	NT	10 U	2.6 J	NS	4.8	*
			Calcium	NT	81200 J	78100 J	NS	NS	11500
			Iron	NT	3130	3880	300	11000	279
			Magnesium	NT	17600 J	15900	NS	NS	43300
			Manganese	NT	55.6 J	66.8	50	880	1020
			Nitrobenzene	NT	0.057 J	0.1 U	NS	3	*
			Potassium	NT	1060 J	1050	NS	NS	2890
	ED0 ::=		Sodium	NT	11200 J	9960 J	NS	NS	45700
Erie	EBGmw-125	Unconsolidated	Acetone	NT	10 U	10 JB	NS	610	*
Burning Grounds	urning Grounds		Aluminum	NT	50 U	28.6 J	200	36000	0
			Arsenic	NT	5 U	8.7 J	10	0.045	11.7
			Barium bis(2-Ethylhexyl) phthalate	NT NT	<i>57.5 J</i> 10 UJ	<i>54.6 J</i>	2000 NS	2600 4.8	82.1
			Calcium	NT	44800 J	41300	NS	NS	11500
			Cyanide	NT	0.0051 J	0.01 U	NS	730	*
			Iron	NT	6330	8710	300	11000	279
			Magnesium	NT	8520 J	8480	NS	NS	43300
			Manganese	NT	438 J	460	50	880	1020
			Perchlorate	NT	NT NT	0.035 J	NS	3.6	*
			Potassium	NT	1060 J	1110 J	NS	NS	2890
			Sodium	NT	3170 J	3490 J	NS	NS	45700
			Zinc	NT	10 U	3.8 J	5000	11000	60.9
Erie	EBGmw-126	Unconsolidated	Arsenic	NT	13.9 J	23.1	10	0.045	11.7
Burning Grounds			Barium	NT	229 J	238 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	2.1 J	10 U	NS	4.8	*
			Calcium	NT	90800 J	97100 J	NS	NS	11500
			Iron	NT	5230	7750	300	11000	279
			Magnesium	NT	16200 J	16900	NS	NS	43300
			Manganese	NT	202 J	208	50	880	1020
			Perchlorate	NT	NT	0.036 J	NS	3.6	2000
			Potassium	NT NT	1270 J 7150 J	1240 7160 J	NS	NS	2890
			Sodium Zinc	NT	6.8 J	5.7 JB	NS 5000	NS 11000	45700 60.9
Erie	EBGmw-127	Unconsolidated	Aluminum	NT	114 J	131	200	36000	00.9
Burning Grounds	EDOMW-12/	Silconsolidated	Arsenic	NT	114 J	11.7 J	10	0.045	11.7
2.704.140			Barium	NT	368 J	295 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1 J	NS	4.8	*
			Calcium	NT	75800 J	72600	NS	NS	11500
			Iron	NT	1620	1190	300	11000	279
			Magnesium	NT	17500 J	16400	NS	NS	43300
			Manganese	NT	31.6 J	30.7	50	880	1020
			Mercury	NT	0.2 U	0.3 J	2	11	0
			Potassium	NT	1470 J	1400 J	NS	NS	2890
			Sodium	NT	4210 J	3990 J	NS	NS	45700
			Zinc	NT	10 U	2.9 J	5000	11000	60.9
Erie	EBGmw-128	Unconsolidated	Arsenic	NT	5 J	11	10	0.045	11.7
Burning Grounds			Barium	NT	55.1 J	59.1 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.3 J	1.5 J	NS	4.8	*
			Calcium	NT	46400 J	49400 J	NS	NS 11000	11500
			Iron	NT	212	902	300	11000	279
			Magnesium Magnesium	NT	8240 J	8520 215	NS 50	NS 990	43300
			Manganese Porchlorato	NT NT	<i>152 J</i> NT	315 0.041 J	50 NS	880 3.6	1020
			Perchlorate Potassium	NT NT			NS NS	3.6 NS	2890
	1	1			711 J	704 J 3650 J	NS NS	NS NS	45700
			Sodium	NT	3780 J				

Table 4-3. Summary of Constituents Detected - January, April and July 2008

Area	Well Number	Monitored Zone	Compound or Element Detected	Jan-08 Level (ug/L)	Apr-08 Level (ug/L)	Jul-08 Level (ug/L)	MCL (ug/L)	Region 9 PRG (ug/L)	Facility-W Backgrou (ug/L)
Erie	EBGmw-129	Unconsolidated	2-Nitrotoluene	NT	0.12 J	0.1 U	NS	61	*
Burning Grounds			Barium	NT	25.3 J	26.7 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.9 J	NS	4.8	*
			Calcium	NT	47400 J	45700 J	NS	NS 11000	115000
			Iron Magnesium	NT NT	5750 11100 J	5370 10600	300 NS	11000 NS	279 43300
			Manganese	NT	655 J	558	50	880	1020
			Perchlorate	NT	NT NT	0.038 J	NS	3.6	*
			Potassium	NT	898 J	897 J	NS	NS	2890
			Sodium	NT	2940 J	2910 J	NS	NS	45700
		Zinc	NT	6.5 J	5.9 JB	5000	11000	60.9	
Erie	EBGmw-130	Unconsolidated	2-Butanone	NT	0.59 J	10 U	NS	1900	*
Burning Grounds			Arsenic	NT	4.5 J	7.1 J	10	0.045	11.7
			Barium	NT	37.6 J	56.9 J	2000	2600	82.1
			Calcium	NT	73700 J	70800	NS	NS	11500
			Cobalt	NT	2.2 J	5 U	NS	730	0
			Iron	NT	2980	3370	300	11000	279
			Magnesium	NT	16600 J	15700	NS	NS	43300
			Manganese	NT	762 J	614	50 NC	880	1020
			Nickel	NT NT	10 U NT	3.7 J	NS NS	730 3.6	0
			Perchlorate	NT	2730 J	0.048 J 2440 J	NS	NS	2890
			Potassium Sodium	NT NT	2730 J 3840 J	2440 J 4130 J	NS	NS NS	45700
			Zinc	NT	3640 J 4.9 J	4130 J 4.6 J	5000	11000	60.9
Fuze & Booster	FBQmw-166	Unconsolidated	2,6-Dinitrotoluene	NT	0.097 U	0.064 J	NS	36	*
Quarry	1 5 4 1111 100	Citorisonation	Acetone	NT	10 JB	10 U	NS	610	*
			Barium	NT	32.1 J	34.6 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	6.2 J	NS	4.8	*
			Calcium	NT	95300 J	95800 J	NS	NS	11500
			Chromium	NT	5 U	2.5 J	100	NS	0
			Iron	NT	50 U	28 J	300	11000	279
			Magnesium	NT	35600 J	34100	NS	NS	43300
			Manganese	NT	21.7 J	111	50	880	1020
			Nickel	NT	10 U	3.4 J	NS	730	0
			Perchlorate	NT	NT	0.038 J	NS	3.6	*
			Potassium	NT	815 J	1040	NS	NS	2890
			Sodium	NT	14000 J	14300 J	NS	NS 11000	45700
Fuze & Booster	FBQmw-167	Unconsolidated	Zinc Antimony	NT NT	10 U 0.13 J	14.5 J 2 U	5000	11000 15	60.9
Quarry	FBQIIIW-107	w-107 Uniconsolidated	Barium	NT	63.9 J	54.6 J	2000	2600	82.1
Quality			bis(2-Ethylhexyl) phthalate	NT	2.5 J	1.6 J	NS	4.8	0Z.1
			Cadmium	NT	0.16 J	0.13 J	5	NS	0
			Calcium	NT	29500 J	28200 J	NS	NS	11500
			Cobalt	NT	6.8 J	6.9 J	NS	730	0
			Iron	NT	15900	15100	300	11000	279
			Magnesium	NT	13700 J	12700	NS	NS	43300
			Manganese	NT	2220 J	2070	50	880	1020
			Nickel	NT	7.6 J	9.4 J	NS	730	0
			Perchlorate	NT	NT	0.04 J	NS	3.6	*
			Potassium	NT	1650 J	1630	NS	NS	2890
			Sodium	NT	33400 J	32200	NS	NS	4570
			Zinc	NT	17.7	17.6 JB	5000	11000	60.9
Fuze & Booster	FBQmw-168	Bedrock	Acetone	NT	10 JB	10 JB	NS	610	*
Quarry			Antimony	NT	0.33 J	0.54 J	6	15	0
			bis(2-Ethylhexyl) phthalate	NT NT	28.1 J 10 U	<i>25.9 J</i> 4.1 J	2000	2600	256
			Calcium	NT NT	40100 J	4.1 J 44000 J	NS NS	4.8 NS	5310
			Iron	NT	40100 J	63.2	300	11000	1430
			Magnesium	NT	7510 J	7520	NS	NS	1500
			Manganese	NT	1.2 J	8 J	50	880	1340
			Perchlorate	NT	NT NT	0.039 J	NS	3.6	*
			Potassium	NT	745 J	877 J	NS	NS	5770
			Sodium	NT	1730 J	1770 J	NS	NS	5140
			Zinc	NT	10 U	10.7 J	5000	11000	52.3
Fuze & Booster	FBQmw-169	Bedrock	Aluminum	NT	36.5 J	50 U	200	36000	0
Quarry			Barium	NT	54.8 J	49.8 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	2.9 J	1.4 J	NS	4.8	*
			Cadmium	NT	0.86	0.79 J	5	NS	0
			Calcium	NT	26300 J	24400 J	NS	NS	53100
			Cobalt	NT	12.1 J	12.2 J	NS	730	0
			Iron	NT	961	1300	300	11000	1430
			Magnesium	NT	18000 J	16800	NS	NS	15000
			Manganese Nickel	NT NT	7070 J	6370	50 NS	880 730	1340 83.4
			Nitrocellulose	NT NT	13.2 J 0.5 UJ	<i>15 J</i> 0.13 J	NS NS	/30 NS	83.4
			Perchlorate	NT	NT	0.13 J	NS	3.6	*
			Potassium	NT	1990 J	2010	NS	NS	5770
	1	l				30800			
			Sodium	NT	31400 J		NS	NS	51400

Table 4-3. Summary of Constituents Detected - January, April and July 2008

A	Well	Monitored	Compound or Element	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL	Region 9 PRG	Facility-W Backgrou
Area Fuze & Booster	Number FBQmw-170	Zone Bedrock	Detected 4-Amino-2,6-Dinitrotoluene	(ug/L) NT	(ug/L) 0.063 J	(ug/L) 0.1 U	(ug/L) NS	(ug/L) NS	(ug/L)
Quarry	FBQIIIW-170	Deulock	Acetone	NT	10 JB	10 U	NS	610	*
Quarry			Aluminum	NT	28.1 J	22.3 J	200	36000	0
			Barium	NT	40.9 J	34.3 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	0.97 J	2.1 J	NS	4.8	*
			Cadmium	NT	0.14 J	5 U	5	NS	0
			Calcium	NT	8200 J	8450 J	NS	NS	53100
			Magnesium	NT	2970 J	2950	NS	NS	15000
			Manganese	NT	94.2 J	68.4	50	880	1340
			Nickel	NT	4.5 J	5.5 J	NS	730	83.4
			Nitrobenzene	NT	0.054 J	0.1 U	NS	3	*
			Perchlorate	NT	NT	0.19	NS	3.6	*
			Potassium	NT	688 J	729 J	NS	NS	5770
			Sodium	NT	7960 J	8720	NS	NS	51400
			Zinc	NT	15.8	15.2 JB	5000	11000	52.3
Fuze & Booster	FBQmw-171	Bedrock	2,6-Dinitrotoluene	NT	0.052 J	0.1 U	NS	36	*
Quarry			Acetone	NT	10 JB	10 U	NS	610	*
			Barium	NT	30 J	31.6 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	4.1 J	1.1 J	NS	4.8	*
			Calcium	NT	16600 J	17600 J	NS	NS	53100
	1		Cyanide	NT	0.01 U	0.0055 JB	NS	730	*
	1		Magnesium	NT	5420 J	5620	NS	NS	15000
	1		Manganese	NT	29.7 J	27.3	50	880	1340
	1		Perchlorate	NT	NT	0.078	NS	3.6	*
	1		Potassium	NT	822 J	890 J	NS	NS	5770
	1		Sodium	NT	1000 J	1530 J	NS	NS	51400
	1		Zinc	NT	12.5	15.7 J	5000	11000	52.3
Fuze & Booster	FBQmw-172	Bedrock	2,6-Dinitrotoluene	NT	0.063 J	0.1 U	NS	36	*
Quarry			Barium	NT	48.2 J	38.6 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.1 J	NS	4.8	*
			Calcium	NT	90500 J	81000 J	NS	NS	53100
			Cobalt	NT	2 J	1.8 J	NS	730	0
			Cyanide	NT	0.01 U	0.005 J	NS	6.2	*
			Iron	NT	153	31.4 J	300	11000	1430
			Magnesium	NT	40800 J	35500	NS	NS	15000
			Manganese	NT	2370 J	2370	50	880	1340
			Mercury	NT	0.2 U	0.16 J	2	11	0
			Nickel	NT	10 U	3.2 J	NS	730	83.4
			Perchlorate	NT	NT	0.024 J	NS	3.6	*
			Potassium	NT	908 J	762 J	NS	NS	5770
			Sodium	NT	8030 J	6330	NS	NS	51400
			Thallium	NT	1 U	0.28 J	2	2	0
			Zinc	NT	10 U	5 JB	5000	11000	52.3
Fuze & Booster	FBQmw-173	Bedrock	2,4,6-TNT	NT	0.09 J	0.08 J	NS	2.2	*
Quarry			2-Amino-4,6-dinitrotoluene	NT	0.31	0.13	NS	NS	*
			4-Amino-2,6-Dinitrotoluene	NT	0.39	0.1 U	NS	NS	*
	1		Barium	NT	9.5 J	8.8 J	2000	2600	256
	1		bis(2-Ethylhexyl) phthalate	NT	0.94 J	3.6 J	NS	4.8	*
	1		Calcium	NT	8180 J	8310 J	NS	NS	53100
	1		Cobalt	NT	5 U	2.8 J	NS	730	0
	1		Iron	NT	5190	1240	300	11000	1430
	1		Magnesium	NT	3310 J	3210	NS	NS	15000
	1		Manganese	NT	1260 J	1190	50	880	1340
	1		Perchlorate	NT	NT	0.035 J	NS	3.6	*
	1		Potassium	NT	1240 J	1190	NS	NS	5770
	1		Sodium	NT	1300 J	1490	NS	NS	51400
	<u> </u>		Zinc	NT	7.6 J	4.9 JB	5000	11000	52.3
Fuze & Booster	FBQmw-174	Bedrock	2,4,6-TNT	NT	62	12 J	NS	2.2	*
Quarry	]		2,4-Dinitrotoluene	NT	1 U	0.4 J	NS	73	*
•	1		2-Amino-4,6-dinitrotoluene	NT	21	21 J	NS	NS	*
	1		4-Amino-2,6-Dinitrotoluene	NT	21	23 J	NS	NS	*
	1		Acetone	NT	10 JB	10 U	NS	610	*
	1		alpha-Chordane	NT	0.018 J	0.03 U	NS	0.19	*
	1		Barium	NT	13.8 J	16.5 J	2000	2600	256
	1		beta-BHC	NT	0.24 J	0.03 U	NS	0.037	*
	1		bis(2-Ethylhexyl) phthalate	NT	2 U	1.5 J	NS	4.8	*
	1		Calcium	NT	6340 J	8500 J	NS	NS	53100
	1		Iron	NT	50 U	26.6 J	300	11000	1430
	1		Magnesium	NT	2150 J	2630	NS	NS	15000
	1		Manganese	NT	13.5 J	3.9 J	50	880	1340
	1		Perchlorate	NT	NT	0.094	NS	3.6	*
	1		Potassium	NT	815 J	1020	NS	NS	5770
	1		Zinc	NT	13.9	17.6	5000	11000	52.3
			LII IC	1 1 1	13.7	17.0	5000	11000	52.5

Table 4-3. Summary of Constituents Detected - January, April and July 2008

	144-11	Monitored	Compound or	Jan-08	Apr-08	Jul-08	MCI	Region 9	Facility-W
A===	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgrou
Area Fuse & Booster	Number FBQmw-175	Zone Bedrock	Detected Antimony	(ug/L) NT	(ug/L) 0.17 J	(ug/L) 2 U	(ug/L) 6	(ug/L) 15	(ug/L) 0
Quarry	FBQIIW-173	Deulock	Barium	NT	6.8 J	5.1 J	2000	2600	256
Quarry			bis(2-Ethylhexyl) phthalate	NT	10 U	1.9 J	NS	4.8	*
			Calcium	NT	8310 J	9300 J	NS	NS	53100
			Cyanide	NT	0.01 U	0.0062 JB	NS	730	*
			Magnesium	NT	4470 J	4860	NS	NS	15000
			Manganese	NT	47 J	34.1	50	880	1340
			Nickel	NT	9.6 J	17.5	NS	730	83.4
			Perchlorate	NT	NT	0.11	NS	3.6	*
			Potassium	NT	622 J	593 J	NS	NS	5770
			Sodium	NT	4410 J	2430 J	NS	NS	51400
			Thallium	NT	0.19 J	1 U	2	2	0
			Zinc	NT	10	14.4 J	5000	11000	52.3
Fuse & Booster	FBQmw-176	Unconsolidated	Acetone	NT	10 JB	10 U	NS	610	*
Quarry			Barium	NT	52.8 J	51.2 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.1 J	NS	4.8	*
			Calcium	NT	8880 J	8900 J	NS	NS	11500
			Cobalt	NT	3.2 J	3.1 J	NS	730	0
			Iron	NT	8480	9250	300	11000	279
			Magnesium	NT	3240 J	3160	NS	NS	43300
			Manganese	NT	1440 J	1400	50	880	1020
			Potassium	NT	834 J	872 J	NS	NS	2890
			Sodium	NT	1920 J	2220 J	NS	NS	45700
			Zinc	NT	4.2 J	5.5 J	5000	11000	60.9
Fuse & Booster	FBQmw-177	Bedrock	Barium	NT	10.4 J	10 J	2000	2600	256
Quarry			bis(2-Ethylhexyl) phthalate	NT	10 U	2.2 J	NS	4.8	*
			Calcium	NT	41800 J	42000 J	NS	NS	53100
			Iron	NT	50 U	28.2 J	300	11000	1430
			Magnesium	NT	11700 J	11300	NS	NS	15000
			Manganese	NT	1130 J	1380	50	880	1340
			Perchlorate	NT	NT	0.027 J	NS	3.6	*
			Potassium	NT	1080 J	1330	NS	NS	5770
			Sodium	NT	2870 J	2960 J	NS	NS	51400
1 dell Ndl-	LNWmw-024	. Hannan a Balada al	Zinc	NT	10 U	7.1 J	5000	11000	52.3
Landfill North	LINWMW-024	Unconsolidated	Barium	NT	38.4 J	35.1	2000	2600	82.1
of Winklepeck			bis(2-Ethylhexyl) phthalate Calcium	NT NT	10 U 83000 J	2.2 J	NS NS	4.8	11500
			Magnesium	NT	37000 J	84800 36800	NS	NS NS	11500 43300
			Manganese	NT	3.9 J	50000 5 J	50	880	1020
			Nitrobenzene	NT	0.066 J	0.12 J	NS	3	*
			Potassium	NT	1150 J	1050	NS	NS	2890
			Sodium	NT	9930 J	7910	NS	NS	45700
			Thallium	NT	0.2 J	1 U	2	2	0
			Zinc	NT	10 U	3.3 JB	5000	11000	60.9
Landfill North	LNWmw-025	Unconsolidated	4,4'-DDT	NT	0.03 U	0.024 J	NS	0.2	*
of Winklepeck	LIVVIIIW 023	Onconsolidated	Aluminum	NT	50 U	742 J	200	36000	0
or windopoor			Arsenic	NT	4.4 J	45	10	0.045	11.7
			Barium	NT	38.4 J	41.6	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.8 J	2.3 J	NS	4.8	*
			Calcium	NT	37700 J	37000	NS	NS	11500
			Cyanide	NT	0.01 U	0.0099 J	NS	730	*
			Iron	NT	1460	18900	300	11000	279
			Magnesium	NT	11300 J	11000	NS	NS	43300
			Manganese	NT	942 J	812	50	880	1020
			Mercury	NT	0.2 U	0.14 JB	2	11	0
			Potassium	NT	876 J	1120	NS	NS	2890
			Sodium	NT	6630 J	6600	NS	NS	45700
			Vanadium	NT	10 U	1.5 J	NS	36	0
			Zinc	NT	2.5 J	5.4 JB	5000	11000	60.9
Landfill North	LNWmw-026	Unconsolidated	4-Nitrotoluene	NT	0.5 UJ	0.27 J	NS	61	*
of Winklepeck			Arsenic	NT	5 U	3.2 J	10	0.045	11.7
			Barium	NT	103 J	94.7	2000	2600	82.1
omopoon	1	bis(2-Ethylhexyl) phthalate	NT	1.3 J	3.1 J	NS	4.8	*	
o. mopook			17/			38900	NS	NS	11500
o. Wiimopoon			Calcium	NI	40100 J				
o. Williageon			Calcium Iron	NT NT	40100 J 50 U				
o, minopedic			Iron	NT NT	50 U	36.5 J 8940	300 NS	11000 NS	279
o. namopouk				NT		36.5 J 8940	300	11000	279 43300
С			Iron Magnesium	NT NT NT	50 U 9490 J 14.1 J	36.5 J	300 NS 50	11000 NS 880	279 43300 1020
c. manopeok			Iron Magnesium Manganese	NT NT	50 U 9490 J	36.5 J 8940 61	300 NS	11000 NS	

Table 4-3. Summary of Constituents Detected - January, April and July 2008

Area	Well Number	Monitored Zone	Compound or Element Detected	Jan-08 Level (ug/L)	Apr-08 Level (ug/L)	Jul-08 Level (ug/L)	MCL (ug/L)	Region 9 PRG (ug/L)	Facility-W Backgrou (ug/L)
Landfill North	I NWmw-027	Unconsolidated	4-Nitrotoluene	NT	0.52 UJ	0.21 J	NS	61	(ug/L)
of Winklepeck	2.1111111111111111111111111111111111111	Onconsonactou	Acetone	NT	10 U	10 JB	NS	610	*
or windepeck			Arsenic	NT	5 U	4.3 J	10	0.045	11.7
			Barium	NT	31.1 J	34.3	2000	2600	82.1
									0Z.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.2 J	NS	4.8	115000
			Calcium	NT	57900 J	61500	NS	NS	115000
			Iron	NT	44.9 J	39.5 J	300	11000	279
			Magnesium	NT	18300 J	18700	NS	NS	43300
			Manganese	NT	230 J	261	50	880	1020
			Nitrobenzene	NT	0.1 UJ	0.067 J	NS	3	*
			Potassium	NT	1700 J	1940	NS	NS	2890
			Sodium	NT	8600 J	7450	NS	NS	45700
			Zinc	NT	10 U	4.1 JB	5000	11000	60.9
NACA Test Area	NTAmw-107	Unconsolidated	1,3,5-Trinitrobenzene	NT	0.098 U	0.034 J	NS	1100	*
141071100171100		Onconsonactou	Aluminum	NT	50 U	33.6 J	200	36000	0
			Arsenic	NT	11.5 J	13.2	10	0.045	11.7
			Barium	NT	102 J	103 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	2.6 J	2.9 J	NS	4.8	*
			Calcium	NT	62400 J	63600	NS	NS	11500
			Iron	NT	223	418	300	11000	279
			Magnesium	NT	16800 J	16700	NS	NS	43300
			Manganese	NT	198 J	253	50	880	1020
			Potassium	NT	1470 J	1050 J	NS	NS	2890
			Sodium	NT	7400 J		NS	NS	45700
NACA Tost A	NITA: 100	Uncons-Ud-4-1				7270			45/00
NACA Test Area	NTAmw-108	Unconsolidated	Acetone	NT	10 U	10 JB	NS	610	
			Barium	NT	67.4 J	57.3 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	3 J	2.4 J	NS	4.8	*
			Calcium	NT	93300 J	89400	NS	NS	11500
			Chromium	NT	3.6 J	5 U	100	NS	0
			Cobalt	NT	3.5 J	5 U	NS	730	0
			Copper	NT	4.6 J	5 U	1300	1500	0
			Magnesium	NT	25200 J	23600	NS	NS	43300
		Manganese	NT	3.9 J	1.8 J	50	880	1020	
		Nickel	NT	3.6 J	10 U	NS	730	0	
		Potassium	NT	1080 J	966 J	NS	NS	2890	
		Silver	NT	4 J	5 U	NS	180	0	
	1	Sodium	NT	10700 J	9020	NS	NS	45700	
			Vanadium	NT	2.7 J	10 U	NS	36	0
		1	Zinc	NT	10 U	2.6 J	5000	11000	60.9
NACA Test Area	NTAmw-109	Unconsolidated	Antimony	NT	0.14 J	2.0 J	6	15	00.7
IN ION ICSUMICA	IN LEWING 107	JIICOIISUIIUAICU	Barium	NT	24.9 J	25 J	2000	2600	82.1
									82.1
			bis(2-Ethylhexyl) phthalate	NT	1.5 J	1.9 J	NS	4.8	
			Calcium	NT	7890 J	7970	NS	NS	11500
			Iron	NT	1330	1420	300	11000	279
			Magnesium	NT	3570 J	3590	NS	NS	43300
		1	Manganese	NT	46.1 J	60.6	50	880	1020
			Nickel	NT	10 U	3.4 J	NS	730	0
			Potassium	NT	970 J	1070 J	NS	NS	2890
			Sodium	NT	1050 J	1240	NS	NS	45700
			Zinc	NT	2.6 J	6.5 J	5000	11000	60.9
NACA T+ *	NITA 110	Hans							
NACA Test Area	NTAmw-110	Unconsolidated	Aluminum	NT	1100	50 U	200	36000	0
			Antimony	NT	0.18 J	2 U	6	15	0
			Arsenic	NT	10.8 J	13.9	10	0.045	11.7
		1	Barium	NT	122 J	121 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.4 J	NS	4.8	*
			Calcium	NT	44700 J	53500	NS	NS	11500
			Iron	NT	1460	101	300	11000	279
			Magnesium	NT	12400 J	14600	NS	NS	43300
			Manganese	NT	128 J	194	50 NC	880	1020
			Nitrocellulose	NT	0.16 J	0.5 U	NS	NS	*
		1	Potassium	NT	1240 J	957 J	NS	NS	2890
			Sodium	NT	15100 J	50 U	NS	NS	45700
			Vanadium	NT	1.3 J	10 U	NS	36	0
			Zinc	NT	5.5 J	10 U	5000	11000	60.9
NACA Test Area	NTAmw-111	Unconsolidated	Aluminum	NT	50 U	24.9 J	200	36000	0
		5.1.00.1.301lddicd	Barium	NT	58.1 J	57.4 J	2000	2600	82.1
		1	bis(2-Ethylhexyl) phthalate	NT			NS		0Z.1
					1.3 J	1.1 J		4.8	
			Calcium	NT	76500 J	74000	NS	NS	11500
			Iron	NT	36.8 J	81.9	300	11000	279
			Magnesium	NT	37200 J	35100	NS	NS	43300
			Manganese	NT	84.4 J	155	50	880	1020
			Perchlorate	NT	NT	0.044 J	NS	3.6	*
		Ì	Potassium	NT	970 J	1050 J	NS	NS	2890
								2070	
	[ ]		Sodium	NT	11700 J	11400 J	NS	NS	45700

Table 4-3. Summary of Constituents Detected - January, April and July 2008

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	\M-11	Manual 4	Compound or	Jan-08	Apr-08	Jul-08	1401	Region 9	Facility-Wide
Area	Well Number	Monitored Zone	Element Detected	Level (ug/L)	Level (ug/L)	Level (ug/L)	MCL (ug/L)	PRG (ug/L)	Background (ug/L)
NACA Test Area	NTAmw-112	Unconsolidated	Acetone	(ug/L) NT	(ug/L) 10 JB	(ug/L) 10 U	NS	( <b>ug/L</b> ) 610	(ug/L)
NACA TESTAICE	NTAIIW-112	Officorisolidated	Aluminum	NT	117	77.4	200	36000	0
			Arsenic	NT	16.3 J	13.4 J	10	0.045	11.7
			Barium	NT	38.4 J	33.3 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	3.1	NS	4.8	*
			Calcium	NT	131000 J	127000	NS	NS	115000
			Iron	NT	1600	1820	300	11000	279
			Magnesium	NT	40700 J	38400	NS	NS	43300
			Manganese	NT	606 J	692 J	50	880	1020
			Nitrobenzene	NT	0.077 J	0.1 U	NS	3	*
			Nitrocellulose	NT	0.5 UJ	0.17 J	NS	NS	*
			Potassium	NT	2450 J	1370 J	NS	NS	2890
			Sodium	NT	19000 J	18400 J	NS	NS	45700
			Zinc	NT	2.9 J	4.1	5000	11000	60.9
NACA Test Area	NTAmw-113	Unconsolidated	Acetone	NT	10 U	10 JB	NS	610	*
			Aluminum	NT	50 U	25 J	200	36000	0
			Arsenic	NT	11.2 J	12.5 J	10	0.045	11.7
			Barium	NT	46.1 J	38.8 J	2000	2600	82.1
			Calcium	NT	83500 J	91700	NS	NS 11000	115000
			Iron Magnacium	NT NT	495 35400 J	915 33200	300 NS	11000 NS	279
			Magnesium Manganese	NT NT	35400 J 244 J	33200	NS 50	NS 880	43300 1020
			Potassium	NT NT	244 J 1640 J	350 1520 J	NS NS	NS NS	2890
			Selenium	NT	5 U	4.7 J	50	180	0
			Sodium	NT	14300 J	14100 J	NS	NS	45700
NACA Test Area	NTAmw-114	Unconsolidated	2,6-Dinitrotoluene	NT	0.052 J	0.1 U	NS	36	*
		51.001.501100100	Arsenic	NT	3.9 J	7.3 J	10	0.045	11.7
			Barium	NT	79.2 J	71.4 J	2000	2600	82.1
			Calcium	NT	92200 J	103000	NS	NS	115000
			Iron	NT	62.6	549	300	11000	279
			Magnesium	NT	31600 J	35500	NS	NS	43300
			Manganese	NT	519 J	587	50	880	1020
			Nitrobenzene	NT	0.097 UJ	0.056 J	NS	3	*
			Perchlorate	NT	NT	0.042 J	NS	3.6	*
			Potassium	NT	1060 J	1240 J	NS	NS	2890
			Sodium	NT	7730 J	9460 J	NS	NS	45700
			Zinc	NT	2.4 J	6.5 J	5000	11000	60.9
NACA Test Area	NTAmw-115	Unconsolidated	2,6-Dinitrotoluene	NT	0.077 J	0.1 U	NS	36	*
			Acetone	NT	10 U	10 JB	NS	610	*
			Barium	NT	50.1 J	48.3 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.1 J	1.8 J	NS	4.8	115000
			Calcium	NT	66300 J	69600	NS	NS 720	115000
			Cyanide	NT NT	0.0076 J	0.0065 J	NS	730	42200
			Magnesium Manganese	NT	16500 J 12.6 J	16500 2.2 J	NS 50	NS 880	43300 1020
			Nitrobenzene	NT	0.076 J	0.068 J	NS	3	1020
			Potassium	NT	715 J	854 J	NS	NS	2890
			Sodium	NT	9370 J	10500	NS	NS	45700
NACA Test Area	NTAmw-116	Unconsolidated	Barium	NT	18.1 J	19.4 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.5 J	NS	4.8	*
			Calcium	NT	16600 J	17100	NS	NS	115000
			Cyanide	NT	0.01 U	0.0058 J	NS	730	*
			Magnesium	NT	2900 J	2910	NS	NS	43300
			Manganese	NT	18.4 J	18.3	50	880	1020
			Nitrobenzene	NT	0.098 UJ	0.088 J	NS	3	*
			Nitrocellulose	NT	0.5 UJ	0.13 J	NS	NS	*
			Potassium	NT	769 J	925 J	NS	NS	2890
			Sodium	NT	1440 J	2140	NS	NS	45700
			Zinc	NT	10 U	2.4 J	5000	11000	60.9
NACA Test Area	NTAmw-117	Unconsolidated	Barium	NT	83.2 J	84.3 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.3 J	1.3 J	NS	4.8	*
			Calcium	NT	71800 J	74400	NS	NS 720	115000
			Cyanide	NT	0.0056 J	0.01 U	NS	730	270
			Iron Magnacium	NT	50 U	52.3	300	11000	279
			Magnesium Magnesium	NT NT	17800 J	18000	NS 50	NS 880	43300 1020
			Manganese Potassium	NT NT	143 J 1180 J	193 951 J	NS NS	NS NS	2890
			Sodium	NT	10800 J	10400	NS	NS	45700
			Zinc	NT	10 U	2.3 J	5000	11000	60.9
NACA Test Area	NTAmw-118	Unconsolidated	2,6-Dinitrotoluene	NT	0.058 J	0.1 U	NS	36	*
			Aluminum	NT	22 J	50 U	200	36000	0
			Barium	NT	15.5 J	15.7 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	2.7 J	NS	4.8	*
			Calcium	NT	61300 J	64000	NS	NS	115000
			Magnesium	NT	28300 J	28400	NS	NS	43300
			Manganese	NT	28.7 J	71.5	50	880	1020
			Potassium	NT	1350 J	1760 J	NS	NS	2890
			Sodium	NT	9720 J	10500	NS	NS	45700
	<u> </u>		Zinc	NT	2.3 J	10 U	5000	11000	60.9
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Table 4-3. Summary of Constituents Detected - January, April and July 2008

Aroc	Well	Monitored	Compound or Element	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL (ug/L)	Region 9 PRG	Facility-Wi
Area Ramsdell Quarry	Number RQLmw-007	Zone Bedrock	Detected 1,2-Dichloroethene (total)	(ug/L) NT	(ug/L) 0.67 J	(ug/L) NT	(ug/L) NS	(ug/L) NS	(ug/L)
Landfill	RQLIIW-007	Deulock	1,3,5-Trinitrobenzene	NT	0.07 J	NT	NS	1100	*
Lanami			2-Butanone	NT	0.72 J	NT	NS	1900	*
			Aluminum	NT	41.2 J	NT	200	36000	0
			Antimony	NT	0.48 J	NT	6	15	0
			Arsenic	NT	11.3 J	NT	10	0.045	0
			Barium	NT	40.7 J	NT	2000	2600	82.1
			Cadmium	NT	0.52	NT	5	NS	0
			Calcium	NT	137000 J	NT NT	NS 70	NS /1	53100
			cis-1,2-Dichloroethene Cobalt	NT NT	0.67 J 8.9 J	NT NT	70 NS	730	0
			Iron	NT	2010 J	NT	300	11000	1430
			Magnesium	NT	44800 J	NT	NS	NS	15000
			Manganese	NT	1530 J	NT	50	880	1340
			Nickel	NT	13.4 J	NT	NS	730	83.4
			Potassium	NT	4440 J	NT	NS	NS	5770
			Sodium	NT	6430 J	NT	NS	NS	45700
			Zinc	NT	50.1	NT	5000	11000	52.3
Ramsdell Quarry	RQLmw-008	Bedrock	Arsenic	NT	15.4 J	NT	10	0.045	11.7
Landfill			Barium	NT	125 J	NT	2000	2600	256
			Calcium	NT	59800 J	NT	NS	NS	53100
			Cobalt	NT	3.2 J	NT	NS	730	0
			Iron	NT	101000 J	NT	300	11000	1430
			Magnesium	NT	47300 J	NT	NS	NS	15000
			Manganese	NT	802 J	NT	50	880	1340
			Nickel	NT	4.1 J	NT NT	NS NC	730	83.4
			Potassium Sodium	NT NT	4140 J 5180 J	NT NT	NS NS	NS NS	5770 51400
			Zinc	NT NT	5180 J 10.9	NT NT	5000	11000	51400
Ramsdell Quarry	RQLmw-009	Bedrock	2,6-Dinitrotoluene	NT	0.071 J	NT	NS	36	32.3
Landfill	KQLIIW-007	Deditock	2-Butanone	NT	0.071 J	NT	NS	1900	*
Landilli			Aluminum	NT	19.8 J	NT	200	36000	0
			Arsenic	NT	6.3 J	NT	10	0.045	11.7
			Barium	NT	15.4	NT	2000	2600	256
			beta-BHC	NT	0.01 J	NT	NS	0.037	*
			Calcium	NT	16900	NT	NS	NS	53100
			Iron	NT	869 J	NT	300	11000	1430
			Magnesium	NT	12900	NT	NS	NS	15000
			Manganese	NT	1030 J	NT	50	880	1340
			Potassium	NT	2750	NT	NS	NS	5770
			Sodium	NT	1410	NT	NS	NS	45700
			Zinc	NT	4 J	NT	5000	11000	60.9
Ramsdell Quarry	RQLmw-012	Bedrock	Barium	NT	27.2 J	26.1	2000	2600	256
Landfill			bis(2-Ethylhexyl) phthalate	NT	10 U	1.4 J	NS	4.8	*
			Aluminum	NT	1030	1070	200	36000	0
			Cadmium	NT	0.52	0.53	5	NS	0
			Calcium Cobalt	NT NT	60100 J	60400	NS NS	NS 730	53100
			HMX	NT	6.5 J 0.096 U		NS	1800	· ·
			Iron	NT NT	70.5 J	0.04 J 50	300	11000	1430
			Magnesium	NT	17700 J	16800	NS	NS	15000
			Manganese	NT	216 J	248	50	880	1340
			Nickel	NT	210 J 20.8 J	25.1	NS	730	83.4
			Nitrocellulose	NT	0.5 U	0.18 J	NS	NS	*
			Potassium	NT	4540 J	3960 J	NS	NS	5770
			RDX	NT	0.15	0.13	NS	0.61	*
			Sodium	NT	4200 J	4010	NS	NS	45700
			Thallium	NT	0.4 J	0.46 J	2	2	0
			Zinc	NT	61.3	53.1 J	5000	11000	60.9
Ramsdell Quarry	RQLmw-013	Bedrock	2-Butanone	NT	0.63 J	10 U	NS	1900	*
Landfill			Aluminum	NT	4310	4340	200	36000	0
			Barium	NT	33.9 J	30.1	2000	2600	256
			Beryllium	NT	0.6 J	0.57 J	4	NS	0
			bis(2-Ethylhexyl) phthalate	NT	10 U	3.5 J	NS	4.8	*
			Cadmium	NT	0.14 J	0.15 J	5	NS	0
			Calcium	NT	22000 J	23200	NS	NS 720	53100
			Cobalt	NT	37.6 J	38.2	NS	730	1420
			Iron Magnasium	NT	4860 J	5180	300	11000	1430
			Magnesium	NT	11000 J	10900	NS 50	NS	15000
			Manganese Nickel	NT NT	693 J 72 J	781 77.9	NS NS	880 730	1340 83.4
			Nitrocellulose	NT	0.5 U	0.14 J	NS	NS	*
			Potassium	NT NT	2160 J	2120 J	NS NS	NS NS	5770
			Sodium	NT	21900 J	22700	NS	NS	51400
	]		Thallium	NT	0.91 J	0.93 J	2	2	0
			Vanadium	NT	10 U	0.86 J	NS	36	0

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wid
_	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Backgroun
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Ramsdell Quarry Landfill	RQLmw-014	Bedrock	Barium beta-BHC	NT NT	25.5 0.03 U	26.3 J 0.016 J	2000 NS	2600 0.037	256
Lanunn			bis(2-Ethylhexyl) phthalate	NT	10 U	1.8 J	NS	4.8	*
			Calcium	NT	14300	21000 J	NS	NS	53100
			Cobalt	NT	12.4	12.5 J	NS	730	0
			Iron	NT	16900 J	11600	300	11000	1430
			Magnesium	NT	8900	10900	NS	NS	15000
			Manganese	NT	3070	3090	50	880	1340
			Nickel	NT	21.5 J	26.7 J	NS	730	83.4
			Nitrocellulose	NT	0.5 U	0.14 J	NS	NS	*
			Potassium	NT	2190	2470	NS	NS	5770
			Sodium	NT	3770	4470	NS	NS	51400
			Zinc	NT	26.1	24.4 JB	5000	11000	52.3
Ramsdell Quarry	RQLmw-015	Bedrock	2-Butanone	NT	0.59 J	10 U	NS	1900	*
Landfill			Acetone	NT	1.3 J	10 JB	NS	610	*
			Arsenic	NT	5 U	3.4 JB	10	0.045	11.7
			Barium	NT	1.5 J	1.3 J	2000	2600	256
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.1 J	NS	4.8	
			Calcium	NT	21900	22400 J	NS	NS 720	53100
			Cobalt delta-BHC	NT NT	2.1 J 0.013 J	5 U	NS NS	730 0.052	0
			Iron	NT NT	563 J	0.03 U 537	300	11000	1430
			iron Magnesium	NT NT	10500	10400	NS	NS	15000
			Manganese	NT	1110	420	50	880	1340
			Nickel	NT	4.9 J	3.7 J	NS	730	83.4
			Nitrocellulose	NT	0.5 U	0.14 J	NS	NS	*
			Potassium	NT	1400 J	1210	NS	NS	5770
		Sodium	NT	50 U	660 J	NS	NS	51400	
		Thallium	NT	1 U	0.22 J	2	2	0	
			Zinc	NT	26.9	31.9 J	5000	11000	52.3
Ramsdell Quarry RQLmw-016	Bedrock	2-Butanone	NT	0.77 J	10 U	NS	1900	*	
Landfill			Arsenic	NT	3.4 J	4.9 JB	10	0.045	11.7
			Barium	NT	12.9 J	11.4 J	2000	2600	256
			Benzoic acid	NT	10 R	6.8 J	NS	150000	*
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.6 J	NS	4.8	*
			Calcium	NT	438000 J	462000 J	NS	NS	53100
			Carbon disulfide	NT	0.84 J	1 U	NS	1000	*
			Cobalt	NT	3.5 J	17.7 J	NS	730	0
			delta-BHC	NT	0.03 U	0.021 J	NS	0.052	*
			Iron	NT	16300 J	28800	300	11000	1430
			Magnesium	NT	68300 J	70000	NS	NS	15000
			Manganese	NT	7460 J	9900	50 NC	880	1340
			Nickel Nitrocellulose	NT NT	15.7 J 0.5 U	36.9 J 0.13 J	NS NS	730 NS	83.4
			Potassium	NT	3590 J	3220	NS	NS NS	5770
			Sodium	NT	7700 J	8340	NS	NS	51400
			Thallium	NT	1 U	0.15 J	2	2	0
			Zinc	NT	3.2 J	4.7 JB	5000	11000	52.3
Ramsdell Quarry	ROI mw-017	Bedrock	2-Butanone	NT	0.75 J	10 U	NS	1900	*
Landfill		Dogrock	Acetone	NT	10 U	10 JB	NS	610	*
			Aluminum	NT	1160	1660 J	200	36000	0
			Barium	NT	16.4	7.6 J	2000	2600	256
			Beryllium	NT	0.9 J	0.87 J	4	NS	0
			bis(2-Ethylhexyl) phthalate	NT	10 U	3.1 J	NS	4.8	*
			Cadmium	NT	0.3 J	0.37 J	5	NS	0
			Calcium	NT	142000	98900 J	NS	NS	53100
			Cobalt	NT	52.8	36.2 J	NS	730	0
			delta-BHC	NT	0.077 J	0.03 U	NS	0.052	*
			Iron	NT	86.3 J	50 U	300	11000	1430
			Magnesium	NT	34100	25300	NS	NS	15000
			Manganese	NT	6140	4680	50	880	1340
			Nickel	NT	194	146 J	NS	730	83.4
			Nitrocellulose	NT	0.5 U	0.15 J	NS	NS	*
			Potassium	NT	3420 J	2590	NS	NS	5770
			Sodium	NT	8260	4800	NS	NS	51400
			Thallium	NT	0.26 J	1 U	2	2	0
			Zinc	NT	1290	603 J	5000	11000	52.3

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wide
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Background
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Winklepeck	WBGmw-005	Unconsolidated	Aluminum	50 U	50 U	30.0 J	200	36000	0
Burning Ground			Arsenic	NT	9.3 J	12.8	10	0.045	11.7
			Barium	NT	68.9 J	71.4	2000	2600	82.1
			beta-BHC bis(2-Ethylhexyl) phthalate	NT	0.011 J	0.03 U	NS	0.037	*
			Calcium	NT NT	1.8 J 50400 J	5.8 J 54500	NS NS	4.8 NS	115000
			Cyanide	NT	0.0062 J	0.01 U	NS	730	*
			delta-BHC	NT	0.0082 J 0.014 J	0.01 U	NS	0.052	*
			Iron	NT	9320	9430	300	11000	279
			Magnesium	NT	15900 J	16800	NS	NS	43300
			Manganese	NT	1180 J	1220	50	880	1020
			Nitrobenzene	NT	0.092 J	0.055 J	NS	3	*
			Potassium	NT	861 J	956 J	NS	NS	2890
			Sodium	NT	12800 J	12200	NS	NS	45700
			Zinc	NT	3 J	3.2 JB	5000	11000	60.9
Winklepeck	WBGmw-008	Unconsolidated	2-Nitrotoluene	NT	0.26 J	0.5 U	NS	61	*
Burning Ground			Acetone	NT	10 U	3.3 JB	NS	5500	*
			Barium	NT	27.7 J	27.6	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.2 J	1.4 J	NS	4.8	*
			Calcium	NT	89400 J	82700	NS	NS	115000
	1		Iron	NT	36.4 J	50 U	300	11000	279
	1		Magnesium	NT	20900 J	19700	NS	NS	43300
	1		Manganese	NT	3.5 J	13.3	50	880	1020
	1		Nitrocellulose	NT	0.5 U	0.13 J	NS	NS	*
			Potassium	NT	597 J	692	NS	NS	2890
Winklepeck	WBGmw-010	Unconsolidated	Sodium 3.4 Dinitrotolyana	NT NT	7600 J	6900 0.051 J	NS	NS 36	45700
Burning Ground	WDGIIIW-U1U	Unconsolidated	2,6-Dinitrotoluene Antimony	NT	0.11 U 0.15 J	2 U	NS 6	15	0
Burning Ground			Barium	NT	25.2 J	21.1	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.3 J	NS	4.8	0Z.1
			Calcium	NT	94100 J	90200	NS	NS	115000
			Iron	NT	48.7 J	46.6 J	300	11000	279
			Magnesium	NT	36700 J	33000	NS	NS	43300
			Manganese	NT	167 J	124	50	880	1020
			Potassium	NT	702 J	681 J	NS	NS	2890
			Sodium	NT	20200 J	18400	NS	NS	45700
			Thallium	NT	0.17 J	1 U	2	2	0
			Zinc	NT	3.3 J	3.1 JB	5000	11000	60.9
Winklepeck	WBGmw-011	Unconsolidated	Aluminum	NT	338 J	50 U	200	36000	0
Burning Ground			Barium	NT	45.9 J	47.3	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	1.0 J	NS	4.8	*
			Calcium	NT	77600 J	87300	NS	NS	115000
			Iron	NT	775	50 U	300	11000	279
			Magnesium	NT	16700 J	17800	NS	NS	43300
			Manganese	NT	38.7 J	21.2	50	880	1020
			Potassium	NT	3790 J	4330	NS	NS	2890
	1		Sodium	NT	4690 J	4800	NS	NS 11000	45700
MC-11-	WDC- 242	Harris M. C.	Zinc	NT	3.4 J	3.8 JB	5000	11000	60.9
Winklepeck	WBGmw-012	Unconsolidated	Barium	NT	27.8 J	25.4	2000	2600	82.1
Burning Ground	1		bis(2-Ethylhexyl) phthalate	NT NT	10 U 64500 J	1.7 J	NS NS	4.8 NS	115000
	1		Calcium Iron	NT NT	64500 J 71.1	<i>63500</i> 50 U	300	NS 11000	279
	1		Magnesium	NT	19500 J	18200	NS	NS	43300
	1		Manganese	NT	0.97 J	0.49 J	50	NS 880	1020
	1		Nitrocellulose	NT	0.97 J	0.49 J 0.14 J	NS	NS	*
	1		Potassium	NT	844 J	722 J	NS	NS	2890
	1		Sodium	NT	6430 J	3060	NS	NS	45700
	1		Zinc	NT	10 U	3.6 JB	5000	11000	60.9
	<del>                                     </del>		2,4-Dinitrotoluene	NT	0.058 J	0.061 J	NS	73	*
Winklepeck	WBGmw-013	Unconsolidated		NT	0.91 J	0.85	NS	NS	*
Winklepeck Burning Ground	WBGmw-013	Unconsolidated	2-Amino-4,6-dinitrotoluene	IN I			-		*
Winklepeck Burning Ground	WBGmw-013	Unconsolidated	2-Amino-4,6-dinitrotoluene 4-Amino-2,6-Dinitrotoluene	NT	0.49 J	0.50	NS	NS	_
	WBGmw-013	Unconsolidated					NS 2000	NS 2600	82.1
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene	NT	0.49 J	0.50			
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium	NT NT	0.49 J 16.9 J	0.50 14.6	2000	2600	
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC	NT NT NT	0.49 J 16.9 J 0.02 J	0.50 <i>14.6</i> 0.021 J	2000 NS	2600 0.037	82.1
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate	NT NT NT NT	0.49 J 16.9 J 0.02 J 10 UJ	0.50 14.6 0.021 J 1.4 J	2000 NS NS	2600 0.037 4.8	82.1
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium	NT NT NT NT NT NT	0.49 J 16.9 J 0.02 J 10 UJ 50400 J	0.50 14.6 0.021 J 1.4 J 37500	2000 NS NS NS NS NS	2600 0.037 4.8 NS NS 880	82.1 * * 115000
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Magnesium	NT NT NT NT NT	0.49 J 16.9 J 0.02 J 10 UJ 50400 J 14500 J	0.50 14.6 0.021 J 1.4 J 37500 10200	2000 NS NS NS NS	2600 0.037 4.8 NS NS	82.1 * * 115000 43300
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Magnesium Manganese	NT NT NT NT NT NT	0.49 J 16.9 J 0.02 J 10 UJ 50400 J 14500 J 0.85 J	0.50 14.6 0.021 J 1.4 J 37500 10200 0.48 J	2000 NS NS NS NS NS	2600 0.037 4.8 NS NS 880	82.1 * * 115000 43300
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Magnesium Manganese Phenol Potassium Sodium	NT N	0.49 J 16.9 J 0.02 J 10 UJ 50400 J 14500 J 0.85 J 1 U 666 J 2000 J	0.50 14.6 0.021 J 1.4 J 37500 10200 0.48 J 1 609 J 2560	2000 NS	2600 0.037 4.8 NS NS 880 2200 NS	82.1 * 115000 43300 1020 *
	WBGmw-013	Unconsolidated	4-Amino-2,6-Dinitrotoluene Barium beta-BHC bis(2-Ethylhexyl) phthalate Calcium Magnesium Manganese Phenol Potassium	NT N	0.49 J 16.9 J 0.02 J 10 UJ 50400 J 14500 J 0.85 J 1 U	0.50 14.6 0.021 J 1.4 J 37500 10200 0.48 J 1 609 J	2000 NS NS NS NS S S NS NS	2600 0.037 4.8 NS NS 880 2200 NS	82.1 * 115000 43300 1020 * 2890

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wid
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Background
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Winklepeck	WBGmw-014	Unconsolidated	2-Nitrotoluene Barium	NT NT	0.39 J	0.1 U	NS 2000	61	02.1
Burning Ground			bis(2-Ethylhexyl) phthalate	NT	<i>15.8 J</i> 10 U	24.5 2 J	2000 NS	2600 4.8	82.1
			Calcium	NT	62500 J	67900	NS	NS	115000
			delta-BHC	NT	0.03 U	0.022 J	NS	0.052	*
			Iron	NT	50 U	51.6	300	11000	279
			Magnesium	NT	16000 J	16800	NS	NS	43300
			Manganese	NT	43.6 J	76.4	50	880	1020
			Nitrobenzene	NT	0.058 J	0.5 U	NS	3	*
			Potassium	NT	2540 J	1580	NS	NS	2890
			Sodium	NT	8830 J	6860	NS	NS	45700
			Zinc	NT	2.5 J	3.2 JB	5000	11000	60.9
Winklepeck	WBGmw-015	Unconsolidated	Barium	NT	50.4 J	55.3	2000	2600	82.1
Burning Ground			bis(2-Ethylhexyl) phthalate	NT	10 U	2.2 J	NS	4.8	115000
			Calcium	NT NT	<i>88700 J</i> 50 U	88800 30.4 J	NS 300	NS 11000	115000 279
			Iron Magnesium	NT NT	30300 J	29300	NS	NS	43300
			Manganese	NT	21 J	119	50	880	1020
			Nitrocellulose	NT	0.5 U	0.19 J	NS	NS	*
			Potassium	NT	1170 J	1190 J	NS	NS	2890
			Sodium	NT	13600 J	12500	NS	NS	45700
			Thallium	NT	0.21 J	1 U	2	2	0
			Zinc	NT	10 U	3.4 JB	5000	11000	60.9
Winklepeck	WBGmw-016	Unconsolidated	Barium	NT	19.8 J	22.5	2000	2600	82.1
Burning Ground			bis(2-Ethylhexyl) phthalate	NT	10 U	3.6 J	NS	4.8	*
-			Calcium	NT	51200 J	80900	NS	NS	115000
			Magnesium	NT	8770 J	16800	NS	NS	43300
			Manganese	NT	0.54 J	1.5 J	50	880	1020
			Nitrobenzene	NT	0.089 J	0.1 U	NS	3	*
			Nitrocellulose	NT	0.5 U	0.17 J	NS	NS	*
			Potassium	NT	756 J	943 J	NS	NS	2890
			Sodium	NT	1340 J	3740	NS	NS	45700
			Vanadium	NT	10 U	0.66 J	NS	36	0
Winklepeck	WBGmw-017	Unconsolidated	Aluminum	NT	2680 J	32.9 J	200	36000	0
Burning Ground			Arsenic	NT	12 J	5.1 J	10	0.045	11.7
			Barium	NT NT	<i>70.2 J</i> 10 U	55.8	2000 NS	2600 4.8	82.1
			bis(2-Ethylhexyl) phthalate Calcium	NT	60000 J	70600	NS	NS	115000
			Chromium	NT	4.6 J	5 U	100	NS	0
			Copper	NT	4.0 J	5 U	1300	1500	0
			Iron	NT	5140	492	300	11000	279
			Magnesium	NT	16800 J	18800	NS	NS	43300
			Manganese	NT	397 J	196	50	880	1020
			Nickel	NT	3.5 J	10 U	NS	730	0
			Potassium	NT	1740 J	1010 J	NS	NS	2890
			Sodium	NT	4190 J	4850	NS	NS	45700
			Vanadium	NT	4.6 J	10 U	NS	36	0
			Zinc	NT	16.4 J	2.5 JB	5000	11000	60.9
Suspected Mustard	MBSmw-001	Unconsolidated	2-Nitrotoluene	NT	0.15 J	0.1 U	NS	61	*
Agent			Arsenic	NT	5 U	3.4 J	10	0.045	11.7
Burial Ground			Barium	NT	113 J	98.2 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	10 U	11	NS	4.8	445000
			Calcium	NT	78100 J	75600	NS	NS 1900	115000
			HMX	NT NT	0.1 UJ 103	0.078 J 153	NS 300	1800 11000	279
			Iron Magnesium	NT NT	21800 J	21000	NS	NS	43300
			Manganese	NT	21800 J 227 J	21000	50	880	1020
			Nitrocellulose	NT	0.5 UJ	0.19 J	NS	NS	*
			Potassium	NT	1180 J	1140 J	NS	NS	2890
			Sodium	NT	12500 J	10400 J	NS	NS	45700
			Zinc	NT	10 U	4.2 J	5000	11000	60.9
Suspected Mustard	MBSmw-002	Unconsolidated	Arsenic	NT	15.1 J	9.4	10	0.045	11.7
Agent			Barium	NT	108 J	102 J	2000	2600	82.1
Burial Ground			beta-BHC	NT	0.03 U	0.0089 J	NS	0.037	*
			bis(2-Ethylhexyl) phthalate	NT	1.4 J	2.4 J	NS	4.8	*
			Calcium	NT	67000 J	68300	NS	NS	115000
			Chromium	NT	2.7 J	5 U	100	NS	0
			Cobalt	NT	3.1 J	5 U	NS	730	0
			Copper	NT	5.1 J	5 U	1300	1500	0
			Iron	NT	463	504	300	11000	279
			Magnesium	NT	17500 J	17500	NS	NS	43300
			Manganese	NT	213 J	223	50	880	1020
			Potassium	NT	1180 J	1020 J	NS	NS	2890
			Silver	NT	3.6 J	5 U	NS	180	0
			Sodium	NT	8300 J	7850	NS	NS	45700
			Thallium	NT	0.19 J	1 U	2	2	0
		Ì	Vanadium	NT NT	3.5 J 10 U	10 U 2.8 J	NS 5000	36 11000	60.9
			Zinc						

Table 4-3. Summary of Constituents Detected - January, April and July 2008

			Compound or	Jan-08	Apr-08	Jul-08		Region 9	Facility-Wide
	Well	Monitored	Element	Level	Level	Level	MCL	PRG	Background
Area	Number	Zone	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Suspected Mustard	MBSmw-003	Unconsolidated	4-Nitrotoluene	NT	0.53 UJ	0.15 J	NS	61	*
Agent			Barium	NT	18.4 J	13.6 J	2000	2600	82.1
Burial Ground			bis(2-Ethylhexyl) phthalate	NT	1.7 J	5.2 J	NS	4.8	*
			Calcium	NT	80500 J	75500	NS	NS	115000
			Magnesium	NT	24800 J	22900	NS	NS	43300
			Manganese	NT	0.96 J	1.6 J	50	880	1020
			Potassium	NT	1200 J	1060 J	NS	NS	2890
			Sodium	NT	4850 J	4460	NS	NS	45700
			Zinc	NT	10 U	4 J	5000	11000	60.9
Suspected Mustard	MBSmw-004	Unconsolidated	Barium	NT	34.6 J	36.4 J	2000	2600	82.1
Agent			bis(2-Ethylhexyl) phthalate	NT	10 U	1.1 J	NS	4.8	*
Burial Ground			Calcium	NT	78800 J	69300	NS	NS	115000
			Cyanide	NT	0.01 U	0.0075 J	NS	730	*
			Magnesium	NT	23600 J	20700	NS	NS	43300
			Manganese	NT	25.9 J	175	50	880	1020
			Potassium	NT	1160 J	1150 J	NS	NS	2890
			Sodium	NT	5660 J	5260 J	NS	NS	45700
			Zinc	NT	10 U	3.8 J	5000	11000	60.9
Suspected Mustard	MBSmw-005	Unconsolidated	Arsenic	NT	8.6 J	6.2	10	0.045	11.7
Agent			Barium	NT	79.3 J	74.9 J	2000	2600	82.1
Burial Ground			bis(2-Ethylhexyl) phthalate	NT	10 U	1.2 J	NS	4.8	*
			Calcium	NT	80700 J	83300	NS	NS	115000
			HMX	NT	0.087 J	0.1 U	NS	1800	*
			Iron	NT	1860	1600	300	11000	279
			Magnesium	NT	24600 J	25300	NS	NS	43300
			Manganese	NT	725 J	802	50	880	1020
			Potassium	NT	1090 J	1090 J	NS	NS	2890
			Sodium	NT	14500 J	17100	NS	NS	45700
Suspected Mustard	MBSmw-006	Unconsolidated	Acetone	NT	10 JB	10 JB	NS	610	*
Agent			Aluminum	NT	85	50 U	200	36000	0
Burial Ground			Barium	NT	86.8 J	80 J	2000	2600	82.1
			bis(2-Ethylhexyl) phthalate	NT	1.4 J	10 U	NS	4.8	*
			Calcium	NT	79600 J	79600	NS	NS	115000
			Iron	NT	111	46.3 J	300	11000	279
			Magnesium	NT	23300 J	23000	NS	NS	43300
			Manganese	NT	410 J	390	50	880	1020
			Potassium	NT	1390 J	1220 J	NS	NS	2890
			Sodium	NT	6560 J	6530 J	NS	NS	45700
			Zinc	NT	10 U	2.6 J	5000	11000	60.9

Notes: NS = no standard NT = not tested

R = Rejected data

Bold = inorganic constituent detected above Facility-Wide background levels

Italics = inorganic constituent detected below the Facility-Wide background levels

Shaded boxes indicate any contituent, which does not have a background value, detected above the reporting limit.

NS = no standard N1 = not tested
All inorganics are filtered, all organics are not filtered
\*There are no background levels for organic constituents
J = estimated result. Results have been qualified \*J" For more details refer to Data Verification/Validation Reports in in the FWGWMP October 2007 and January, April and July 2008 Sampling Reports
B = the analyte is found in the method blank or any of the field blanks

U = analyzed but not detected at or above the reporting limit

## Table 4-4 RVAAP Facility-wide Background Criteria, (SAIC, 2001b)

Media Units	Surface Soil mg/kg	Subsurface Soil mg/kg	Sediment mg/kg	Surface Water µg/L	Groundwater Bedrock Zone Filtered µg/L	Groundwater Bedrock Zone Unfiltered µg/L	Groundwater Unconsolidated Zone Filtered µg/L	Groundwater Unconsolidated Unfiltered µg/L
Analyte								
Cyanide	0	0	0	0	0	0	0	0
Aluminum	17700	19500	13900	3370	0	9410	0	0
Antimony	0.96	0.96	0	0	0	0	0	0
Arsenic	15.4	19.8	19.5	3.2	0	19.1	11.7	11.7
Barium	88.4	124	123	47.5	256	241	82.1	82.1
Beryllium	0.88	0.88	0.38	0	0	0	0	0
Cadmium	0	0	0	0	0	0	0	0
Calcium	15800	35500	5510	41400	53100	48200	115000	115000
Chromium	17.4	27.2	18.1	0	0	19.5	7.3	7.3
Cobalt	10.4	23.2	9.1	0	0	0	0	0
Copper	17.7	32.3	27.6	7.9	0	17	0	0
Iron	23100	35200	28200	2560	1430	21500	279	279
Lead	26.1	19.1	27.4	0	0	23	0	0
Magnesium	3030	8790	2760	10800	15000	13700	43300	43300
Manganese	1450	3030	1950	391	1340	1260	1020	1020
Mercury	0.036	0.044	0.059	0	0	0	0	0
Nickel	21.1	60.7	17.7	0	83.4	85.3	0	0
Potassium	927	3350	1950	3170	5770	6060	2890	2890
Selenium	104	105	107	0	0	0	0	0
Silver	0	0	0	0	0	0	0	0
Sodium	123	145	112	21300	51400	49700	45700	45700
Thallium	0	0.91	0.89	0	0	0	0	0
Vanadium	31.1	37.6	26.1	0	0	15.5	0	0
Zinc	61.8	93.3	532	42	52.3	193	60.9	60.9

Table 4-5 presents those compounds and elements detected in any of the October 2007, January 2008, April 2008, or July 2008 sampling events that exceeded Region 9 PRGs, primary MCLs, or secondary MCLs. Section 4.13 presents a summary discussion of the MCL and PRG exceedances.

Sections 4.2 through 4.12 present a summary of the time trend graphs for Chemicals of Potential Concern identified in groundwater samples collected under the FWGWMP over the last 11 quarters (i.e., October 2005 through July 2008). Each of Sections 4.2 through 4.12 contains several subsections presented by group of Chemicals of Potential Concern (e.g., inorganics, semi-volatile organic compounds, explosives, etc.). To facilitate the discussion of concentration changes over time concentration versus time graphs (i.e. time-trend graphs) were prepared. The following guidelines were applied to produce the graphs:

- 1. Only wells with three or more detections of an organic and explosive or three or more detection above background for inorganics are graphed.
- 2. For background wells, inorganics with background values are screened and graphed. Any background well with a detected organic compound is also graphed.
- 3. Values reported as "non-detect" are shown as one-half the reporting limit.
- 4. Per agreement with the USACE, time trend graphs were prepared only for wells having four quarters or more of data.

Table 4-6 summarizes the wells and constituents for which time-trend graphs were prepared. Time-trend graphs for the Chemicals of Potential Concern are presented in Appendix G. The graphs are organized by AOC (maps showing each of the AOC areas are presented in Appendix H). The background wells are grouped before the AOCs.

The time-trend plots include the comparative criteria of: 1) MCL, 2) PRG for tap water, and 3) background concentration (either unconsolidated or bedrock) for inorganics. It is noted that background concentrations for several inorganics are identified as "0" (i.e., not expected to be naturally present at any measurable concentration) (Table 4-4). These inorganics include aluminum, antimony, arsenic (bedrock only), beryllium, cadmium, chromium (bedrock only), cobalt, copper, lead, selenium, silver, thallium and vanadium. These criteria were calculated from data collected prior to implementation of the FWGWMP. With implementation of the FWGWMP, many of the inorganics with a "0" background criterion are found to be present at concentrations greater than the respective FWGWMP RLs. Consideration should be made for a re-evaluation of background criteria for inorganics with thought given to inclusion of the FWGWMP data.

#### 4.2 Background Wells

Aluminum, antimony, arsenic, barium, cadmium, calcium, copper, cyanide, iron, magnesium, nickel, potassium, carbon disulfide, and bis(2-ethylhexyl)-phthalate are reported to be present at concentrations exceeding their respective RL in three or more samples from background wells. No explosive, PCB Arochlor, pesticide or herbicide is

Table 4-5. Exceedences of MCLs and Region 9 PRGs

Area	Well	Compound or Element	Oct-07 Level	Jan-08 Level	Apr-08 Level	Jul-08 Level	MCL	Region PRG
7.11.00	Number	Detected	(ug/L)	(ug/L)	(ua/L)	(ug/L)	(ug/L)	(ug/L
		Iron	742 J	NT	NT	NT	300	11000
	BKGmw-006	Manganese	191 J	NT	NT	NT	50	880
	BKGmw-010	Manganese	509	NT	NT	NT	50	880
		Arsenic	11.4	NT	NT	NT	10	0.045
	BKGmw-013	Iron	844	NT	NT	NT	300	1100
		Manganese	417	NT	NT	NT	50	880
Background Wells		Arsenic	20.2	NT	NT	NT	10	0.04
	BKGmw-017	Iron	1780	NT	NT	NT	300	1000
	Bittomii 017	Manganese	213	NT	NT	NT	50	880
	BKGmw-019	Manganese	189 J	NT	NT	NT	50	880
		Iron	2390 J	NT	NT	NT	300	1000
	BKGmw-020	Manganese	756 J	NT	NT	NT	50	880
		Aluminum	NT	460	325	237	200	3600
	LL1mw-063	HMX	NT	8420	1.2	1.7	NS	1800
	EE11111 000	Manganese	NT	56.4	288	251	50	880
		Arsenic	NT	NT	4.8 JB	6.3	10	0.04
	LL1mw-064	Iron	NT	NT	671	660	300	1100
		Manganese	NT	NT	125	127	50	880
	111 0/5	bis(2-Ethylhexyl) phthalate	NT	8.6 J	10 U	8 J	NS	4.8
Load Line 1	LL1mw-065	Manganese	NT	185	87.7	186	50	880
	LL1mw-078	Manganese	120	NT	NT	NT	50	880
		Iron	685	NT	NT	NT	300	1100
	LL1mw-080	Manganese	56.1	NT	NT	NT	50	880
		2,4,6-Trinitrolouene	9.2 J	NT	NT	NT	NS	2
	LL1mw-083	Aluminum	989 J	NT	NT	NT	200	3600
		Manganese	765	NT	NT	NT	50	880
	LL2mw-059	Manganese	136	NT	NT	NT	50	880
	EEZIIW 007	Arsenic	NT	13.4	15.2 B	15.7	10	0.04
	LL2mw-261	Iron	NT	2380	2630	2480	300	1100
	LLLIIII LOT	Manganese	NT	369	393	386	50	880
	LL2mw-262	Manganese	922	NT	NT	NT	50	880
		Arsenic	16.8	NT	NT	NT	10	0.04
	LL2mw-263	Iron	5140	NT	NT	NT	300	1100
		Manganese	1590	NT	NT	NT	50	880
		Arsenic	NT	5 U	5 U	3.7 J	10	0.04
Land Line O	LL2mw-264	Iron	NT	249	219	363	300	1100
Load Line 2		Manganese	NT	144	191	334	50	880
	11.2 2/5	Iron	NT	222	146	2230	300	1100
	LL2mw-265	Manganese	NT	193	33	186	50	880
		Arsenic	NT	5.4 J	3.7 JB	8.2	10	0.04
	LL2mw-268	Iron	NT	2500	2440	2770	300	1100
		Manganese	NT	362	341	366	50	880
		bis(2-Ethylhexyl) phthalate	NT	14	10 U	2.5 J	NS	4.8
	11.2mw-270	Iron	NT	4420	6030	4780	300	1100
	LLZIIIW-270	Manganese	NT	1160	3600	561	50	880
		Pentachlorophenol	NT	1.3 J	4.7 J	5 U	NS	0.56
	LL3mw-232	Manganese	NT	458	366	275	50	880
	LL3mw-233	Iron	NT	4840	3350 J	6500	300	1100
	220 200	Manganese	NT	1410	904	1390	50	880
	LL3mw-234	Iron	NT	512	571 J	595 J	300	1100
		Manganese	NT	1480	1440	2070	50	880
	LL3mw-235	Manganese	NT	172	435	44.5	50	880
	110	2,4,6-TNT	NT	3.4 J	0.11 U	2.8	NS	2.2
Load Line 3	LL3mw-237	beta-BHC	NT	0.061	0.034 J	0.03 U	NS	0.03
	-	Manganese	NT 42 /	1.6 J	183	66.9	50	880
		1,3-Dinitrobenzene	42 J	NT	NT	NT	NS	3.6
	LL3mw-238	2,4-Dinitrotoluene	96 J	NT	NT	NT	NS	73
		4-Nitrotoluene	37 J	NT	NT	NT	NS	3.2
		RDX	6.6 J	NT	NT	NT	NS	0.61
	1	2,4,6-TNT	NT	7.4	12	4.7	NS	2.2
	LL3mw-241	RDX	NT	0.09 U	1.6	1.6	NS	0.61
	LL3mw-241	1		482	452	443	50	880
	LL3mw-241 LL4mw-193	Manganese	NT					
		Iron	NT	183	80.5	448	300	1100
	LL4mw-193	Iron Manganese	NT NT	183 <b>242</b>	80.5 <b>189</b>	448 271	50	1100 880
Load Line 4	LL4mw-193 LL4mw-194	Iron Manganese Arsenic	NT NT NT	183 <b>242</b> 5 U	80.5 <b>189</b> 5 U	448 271 <i>4.2 J</i>	50 10	1100 880 0.04
Load Line 4	LL4mw-193	Iron Manganese Arsenic Iron	NT NT NT NT	183 242 5 U 9560	80.5 189 5 U 8900	448 271 <i>4.2 J</i> 9580	50 10 300	1100 880 0.04! 1100
Load Line 4	LL4mw-193 LL4mw-194	Iron Manganese Arsenic	NT NT NT	183 <b>242</b> 5 U	80.5 <b>189</b> 5 U	448 271 <i>4.2 J</i>	50 10	1100 880 0.04

Table 4-5. Exceedences of MCLs and Region 9 PRGs

		Compound or	Oct-07	Jan-08	Apr-08	Jul-08		Regio
	Well	Element	Level	Level	Level	Level	MCL	PRO
Area	Number	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l
		Arsenic	10.8	NT	NT	NT	10	0.04
Load Line 4	LL4mw-199	Iron	4910	NT	NT	NT	300	1100
Lodd Line 4		Manganese	636	NT	NT	NT	50	880
	LL4mw-200	Iron	NT	NT	59.1	854 J	300	1100
	LL5mw-001	Iron	NT	NT	431 J	35.2 J	300	1100
	LL5mw-002	Manganese	NT	NT	91.3 J	122	50	880
Load Line 5	LL5mw-003	Iron	NT	NT	50 U	3280	300	1100
	LL5mw-004	Iron	NT	NT	50 U	1520	300	1100
	LL5mw-005	Iron	NT	NT	1940 J	50 U	300	1100
	LL6mw-002	Aluminum	NT	NT	50 U	515	200	3600
	LLOITIW-002	Iron	NT	NT	50 U	893	300	1100
Load Line 6	LL6mw-003	Manganese	NT	NT	88.8	76.7	50	880
	LL6mw-004	Iron	NT	NT	NT	798	300	1100
	LLOIIIW-004	Manganese	NT	NT	NT	114	50	88
	11.11mm 002	Iron	1310 J	NT	NT	NT	300	1100
	LL11mw-002	Manganese	191	NT	NT	NT	50	880
Load Line 11		Arsenic	23.1	NT	NT	NT	10	0.04
	LL11mw-007	Iron	1350	NT	NT	NT	300	1100
		Manganese	224	NT	NT	NT	50	880
		Arsenic	NT	16.8	21.9	5 U	10	0.04
	LL12mw-088	Iron	NT	2860 J	3100	2470	300	1100
	EE1211W-000	Manganese	NT	304	412	371	50	880
		Arsenic	NT	17.4	5 U	7.3 B	10	0.04
	LL12mw-107	Iron	NT	2090 J	50.8 J	1690 J	300	1100
	EE12IIIW-107	Manganese	NT	225	277	280	50	880
		Aluminum	NT	28500	1350	10400 J	200	3600
		Arsenic	NT	54.3	4.9 J	23.8	10	0.04
	LL12mw-113	Iron	NT	88300	3660	29100	300	1100
	LL12IIIW-113	Lead	NT	47	2.1 J	10.4	15	NS
		Manganese	NT	4410	1510	2450	50	880
		Arsenic	NT	40.1	52.9	51.5	10	0.04
	LL12mw-128		NT	199	333	189	50	880
		Manganese						
	11.12mu 1F2	Arsenic	24.6	NT	NT	NT	10	0.04
	LL12mw-153	Iron	4180	NT	NT	NT	300	1100
		Manganese	206	NT	NT	NT	50	880
		Aluminum	NT	4820	50 U	50 U	200	3600
	LL12mw-154	Arsenic	NT	651	8	16.3 B	10	0.04
		Iron	NT	53200 J	162 J	2580 J	300	1100
		Manganese	NT 10.5	213	70.5	95.9	50	880
	1140 400	Arsenic	40.5	NT	NT	NT	10	0.04
	LL12mw-182	Iron	1100	NT	NT	NT	300	1100
		Manganese	56.1	NT	NT	NT	50	88
		Arsenic	34.9	NT	NT	NT	10	0.04
Load Line 12	LL12mw-183	Iron	1460	NT	NT	NT	300	1100
		Manganese	74.6	NT	NT	NT	50	880
		Arsenic	NT	13.5	16.7	11.9 B	10	0.04
	LL12mw-184	Heptachlor epoxide	NT	0.03 U	0.0082 J	0.03 U	NS	0.00
	LL1ZIIIW-164	Iron	NT	2410 J	2680 J	3130 J	300	1100
		Manganese	NT	498	527	551	50	88
	LL12mw-185	Manganese	NT	1780	1580	1530	50	88
	1112mu 10/	Iron	861	NT	NT	NT	300	110
	LL12mw-186	Manganese	347	NT	NT	NT	50	88
	LL12mw-187	Manganese	NT	2110	2030	2130	50	88
		Aluminum	NT	1770	23.8 J	72.3	200	360
	1110 100	beta-BHC	NT	0.3 U	0.3 U	0.17	NS	0.03
	LL12mw-188	Iron	NT	4120	227 J	362 J	300	110
		Manganese	NT	485	664	646	50	880
		Arsenic	NT	5 U	3.9 J	5 U	10	0.04
	LL12mw-189	bis(2-Ethylhexyl) phthalate	NT	1.1 J	10 U	34	NS	4.8
		Manganese	NT	235	327	319	50	880
		Arsenic	NT	53.5	19	24.7	10	0.04
	1	Benzene	NT	0.55 J	1 U	1 U	5	0.3
		0110	NT	65800	565 J	4390 J	300	1100
	LL12mw-242	Iron					_	NS
	LL12mw-242	Iron Lead			0.89 1	3 11	15	
	LL12mw-242	Lead	NT	24.3	0.89 J 67 3	3 U 99 8	15 50	
	LL12mw-242	Lead Manganese	NT NT	24.3 1070	67.3	99.8	50	880
		Lead Manganese Aluminum	NT NT NT	24.3 1070 67.8	67.3 220 B	<b>99.8</b> 50 U	50 200	880 3600
	LL12mw-242	Lead Manganese	NT NT	24.3 1070	67.3	99.8	50	880 3600 0.04

Table 4-5. Exceedences of MCLs and Region 9 PRGs

		Compound or	Oct-07	Jan-08	Apr-08	Jul-08		Region
	Well	Element	Level	Level	Level	Level	MCL	
Area	Number	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L
		Aluminum	NT	83.5	9040	26.8 J	200	36000
	LL12mw-244	Arsenic	NT	7.5	21.4	5 U	10	PRGG (ug/L/C)  S600000000000000000000000000000000000
	LL12IIIW-244	Iron	NT	332	20700 J	61.8 J	300	11000
		Manganese	NT	115	360	108	50	
Load Line 12		Arsenic	NT	24.4 J	5 U	7.3 B	10	
	LL12mw-245	Iron	NT	1670 J	73.5 J	426 J	300	
		Manganese	NT	301	56.5	186	50	PRG (ug/L) 360000 110000 8800 0.0455 110000 8800 110000 8800 110000 8800 110000 8800 110000 8800 110000 8800 0.0455 110000 8800 0.0455 110000 8800 0.0455 110000 110000 110000 110000 110000 1100000 1100000 11000000
	1112 24/	Arsenic	NT	32.7	29.5	41.6	10	
	LL12mw-246	Iron	NT	1430	1130 J	2120	300	
		Manganese Aluminum	NT NT	73.2 NT	78.6 240	<b>69.3</b> 1.4 J	50 200	
		Indeno(1,2,3-cd)pyrene	NT	NT	0.72	0.2 U	NS	
	B12mw-010	Iron	NT	NT	428 J	50 U	300	
		Manganese	NT	NT	62 J	31.5	50	
Building 1200		Iron	NT	NT	50 U	4570	300	
	B12mw-011	Manganese	NT	NT	52	538	50	
		Iron	NT	NT	29.7 J	464	300	
	B12mw-012	Manganese	NT	NT	9.5 J	262	50	
C-Block Quarry	CBLmw-004	Aluminum	NT	NT	469	50 U	200	
		Arsenic	NT	NT	80.6	77.3 J	10	
	CBPmw-001	Iron	NT	NT	6940 J	7960	300	1100
		Manganese	NT	NT	104	104	50	
		Arsenic	NT	NT	15.3	17.5	10	0 880 0 11000 0 880 0 11000 0 880 0 36000 0 0.045 0 11000 0 880 0 0.045 0 0.045
	CBPmw-002	Iron	NT	NT	426	1310	300	
		Manganese	NT	NT	66.7	111	50	PRG (ug/L) 36000 0.045 11000 880 0.045 11000 880 0.045 11000 880 11000 880 11000 880 0.045 11000
		Arsenic	NT	NT	17.2	20.7 J	10	0.04
	CBPmw-003	Iron	NT	NT	929 J	1440	300	
		Manganese	NT	NT	49	107	50	
		Aluminum	NT	NT	243 JB	50 U	200	0.045 11000
Central Burn Pits	CBPmw-004	Arsenic	NT	NT	42.1 J	29.8	10	
		Iron	NT	NT	1150 J	1150	300	
		Manganese	NT 34.3	NT NT	51.3 4.2 J	54 NT	50 10	
	CBPmw-006	Arsenic	27400	NT		NT	300	PRG (ug/L)  PRG (ug/L)  (ug/L)  3600000000000000000000000000000000000
	CBFIIIW-000	Iron Manganese	466	NT	276 J 45.5 J	NT	50	
		Arsenic	36.8	NT	43.3 J	NT	10	
	CBPmw-007	Manganese	228	NT	NT	NT	50	
		Arsenic	NT	NT	4.2 J	5 U	10	
	CBPmw-008	Iron	NT	NT	526 J	119	300	
	051 1111 000	Manganese	NT	NT	78.8 J	28.8	50	
		Manganese	NT	NT	300	282	50	
	CPmw-002	bis(2-Ethylhexyl) phthalate	NT	NT	10 U	16	NS	
		Arsenic	NT	NT	7.1	9 B	10	
	CPmw-003	Iron	NT	NT	757 J	584	300	
		Manganese	NT	NT	96.5	177	50	
Cobbs Pond	CD 00F	Arsenic	NT	NT	29.3	30.3 J	10	0.04
	CPmw-005	Iron	NT	NT	408 J	384	300	1100
		Arsenic	NT	NT	4.7 J	7 J	10	0.04
	CPmw-006	Dibenzo(a)anthracene	NT	NT	0.24 U	2.2 J	NS	(ug/L) 36000 0.045 11000 880 0.045 11000 880 36000 0.092 11000 880 11000 880 11000 880 36000 0.045 11000 880 0.045
	O1 111W-000	Iron	NT	NT	7820 J	6830	300	
	1	Manganese	NT	NT	2510	2320	50	
	DA2mw-104	Aroclor 1242	NT	NT	0.57 J	0.5 U	NS	
	B.40	Arsenic	NT	NT	5 U	8.2	10	
	DA2mw-105	Iron	NT	NT	886 J	1260	300	PRG (ug/L) 36000 0.045 11000 880 0.04511000 880 0.04511000 880 0.092 11000 880 11000 880 11000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000 880 0.04511000
		Manganese	NT	NT	341	252	50	
	DA2mw-106	Iron	NT	NT	9190 J	1620	300	
	D/ IZIIIW 100	Manganese	NT	NT	5640	<i>3720</i> NT	50	
	D/12/11/1/ 100					I IVI I	10	0.04
		Arsenic	6.4	NT NT	NT NT			1100
	DA2mw-107	Arsenic Iron	1800	NT	NT	NT	300	
		Arsenic Iron Manganese	1800 203	NT NT	NT NT	NT NT	300 50	880
Domolition Area 2	DA2mw-107	Arsenic Iron Manganese Arsenic	1800 203 NT	NT NT NT	NT NT 5 U	NT NT 3.6 J	300 50 10	880 0.04
Demolition Area 2		Arsenic Iron Manganese Arsenic Iron	1800 203 NT NT	NT NT NT NT	NT NT 5 U 2360 J	NT NT 3.6 J 2920	300 50 10 300	0.04 1100
Demolition Area 2	DA2mw-107 DA2mw-108	Arsenic Iron Manganese Arsenic Iron Manganese	1800 203 NT NT NT	NT NT NT NT	NT NT 5 U 2360 J 372	NT NT 3.6 J 2920 295	300 50 10 300 50	0.04 1100 880
Demolition Area 2	DA2mw-107	Arsenic Iron Manganese Arsenic Iron Manganese Manganese Manganese	1800 203 NT NT NT NT	NT NT NT NT NT	NT NT 5 U 2360 J 372 238	NT NT 3.6 J 2920 295 40.9	300 50 10 300 50	880 0.04 1100 880 880
Demolition Area 2	DA2mw-107  DA2mw-108  DA2mw-111	Arsenic Iron Manganese Arsenic Iron Manganese Manganese Manganese Arsenic	1800 203 NT NT NT NT NT	NT NT NT NT NT NT	NT NT 5 U 2360 J 372 238 5 U	NT NT 3.6 J 2920 295 40.9 5	300 50 10 300 50 50	880 0.04 1100 880 880 0.04
Demolition Area 2	DA2mw-107 DA2mw-108	Arsenic Iron Manganese Arsenic Iron Manganese Manganese Manganese Arsenic Iron	1800 203 NT NT NT NT NT NT	NT NT NT NT NT NT NT	NT NT 5 U 2360 J 372 238 5 U 2350 J	NT NT 3.6 J 2920 295 40.9 5 4980	300 50 10 300 50 50 10 300	880 0.04 1100 880 880 0.04 1100
Demolition Area 2	DA2mw-108  DA2mw-111  DA2mw-112	Arsenic Iron Manganese Arsenic Iron Manganese Manganese Manganese Manganese Arsenic Iron Manganese	1800 203 NT NT NT NT NT NT	NT N	NT NT 5 U 2360 J 372 238 5 U 2350 J 544	NT NT 3.6 J 2920 295 40.9 5 4980 724	300 50 10 300 50 50 10 300 50	880 0.04 1100 880 880 0.04 1100 880
Demolition Area 2	DA2mw-107  DA2mw-108  DA2mw-111	Arsenic Iron Manganese Arsenic Iron Manganese Manganese Manganese Manganese Arsenic Iron Manganese Iron	1800 203 NT NT NT NT NT NT NT	NT N	NT NT 5 U 2360 J 372 238 5 U 2350 J 544 2730 J	NT NT 3.6 J 2920 295 40.9 5 4980 724 3390	300 50 10 300 50 50 10 300 50 300	880 0.04 1100 880 880 0.04 1100 880
Demolition Area 2	DA2mw-107  DA2mw-108  DA2mw-111  DA2mw-112  DA2mw-113	Arsenic Iron  Manganese Arsenic Iron  Manganese Manganese Manganese Arsenic Iron  Manganese Iron  Manganese Iron Arsenic	1800 203 NT NT NT NT NT NT NT NT NT	NT N	NT NT 5 U 2360 J 372 238 5 U 2350 J 544 2730 J 9.9	NT NT 3.6 J 2920 295 40.9 5 4980 724 3390 NT	300 50 10 300 50 50 10 300 50 300 10	880 0.04 1100 880 880 0.04 1100 880 1100 0.04
Demolition Area 2	DA2mw-108  DA2mw-111  DA2mw-112	Arsenic Iron Manganese Arsenic Iron Manganese Manganese Manganese Manganese Arsenic Iron Manganese Iron	1800 203 NT NT NT NT NT NT NT	NT N	NT NT 5 U 2360 J 372 238 5 U 2350 J 544 2730 J	NT NT 3.6 J 2920 295 40.9 5 4980 724 3390	300 50 10 300 50 50 10 300 50 300	880 0.04! 1100 880 880 0.04! 1100 880

Table 4-5. Exceedences of MCLs and Region 9 PRGs

		Compound or	Oct-07	Jan-08	Apr-08	Jul-08		Region
	Well	Element	Level	Level	Level	Level	MCL	PRG
Area	Number	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
		Arsenic	NT	NT	31.6 J	38.4	10	0.045
	EBGmw-123	Iron	NT	NT	3500	5190	300	11000
		Manganese	NT	NT	154 J	135	50	880
		Arsenic	NT	NT	42.3 J	40.1	10	0.045
	EBGmw-124	Iron	NT	NT	3130	3880	300	11000
		Manganese	NT	NT	55.6 J	66.8	50	880
		Arsenic	NT	NT	5 U	8.7 J	10	0.045
	EBGmw-125	Iron	NT	NT	6330	8710	300	11000
		Manganese	NT	NT	438 J	460	50	880
		Arsenic	NT	NT	13.9 J	23.1	10	0.045
	EBGmw-126	Iron	NT	NT	5230	7750	300	11000
Erie Burning Grounds		Manganese	NT	NT	202 J	208	50	880
		Arsenic	NT	NT	14 J	11.7 J	10	0.045
	EBGmw-127	Iron	NT	NT	1620	1190	300	11000
		Arsenic	NT	NT	5 J	11	10	0.045
	EBGmw-128	Iron	NT	NT	212	902	300	11000
	250 120	Manganese	NT	NT	152 J	315	50	880
	<u> </u>	Iron	NT	NT	5750	5370	300	11000
	EBGmw-129	Manganese	NT	NT	655 J	558	50	880
	EDGIIW-129	bis(2-Ethylhexyl) phthalate	NT	NT	10 U	1.9 J	NS	4.8
	-	Arsenic	NT	NT	4.5 J	7.1 J	10	0.045
	EBGmw-130	Iron	NT	NT	2980	3370	300	11000
	EBGIIIW-130				762 J	614		
		Manganese	NT NT	NT NT			50 NS	880
	FBQmw-166	bis(2-Ethylhexyl) phthalate			10 U	6.2 J		4.8
	FDO 1/7	Manganese	NT NT	NT	21.7 J	111	50	880
	FBQmw-167	Iron	NT NT	NT	15900	15100	300	11000
	FBQmw-170	Manganese	NT NT	NT	94.2 J	68.4	50	880
	FBQmw-172	Iron	NT	NT	153	31.4 J	300	11000
Fuze & Booster	FBQmw-173	Manganese	NT NT	NT	2370 J	2370	50	880
		Iron	NT	NT	5190	1240	300	11000
		Manganese	NT	NT	1260 J	1190	50	880
	FBQmw-174	beta-BHC	NT	NT	0.24 J	0.03 U	NS	0.037
	FBQmw-176	Iron	NT	NT	8480	9250	300	11000
		Manganese	NT	NT	1440 J	1400	50	880
	FBQmw-177	Manganese	NT	NT	1130 J	1380	50	880
		Aluminum	NT	NT	50 U	742 J	200	36000
	LNWmw-025	Arsenic				45		0.045
	LINVVIIIW-UZO		NT	NT	4.4 J		10	
Landfill North	LIVVVIIIW-U23	Iron	NT	NT	1460	18900	300	11000
		Iron Manganese	NT NT	NT NT	1460 942 J	<i>18900</i> 812	300 50	880
	LNWmw-026	Iron	NT NT NT	NT NT NT	1460 942 J 5 U	18900 812 3.2 J	300 50 10	880 0.045
	LNWmw-026	Iron Manganese	NT NT NT NT	NT NT NT NT	1460 942 J 5 U 5 U	18900 812 3.2 J 4.3 J	300 50 10 10	880 0.045 0.045
		Iron Manganese Arsenic	NT NT NT NT NT	NT NT NT NT	1460 942 J 5 U 5 U 230 J	18900 812 3.2 J 4.3 J 261	300 50 10 10 50	880 0.045 0.045 880
	LNWmw-026 LNWmw-027	Iron Manganese Arsenic Arsenic	NT NT NT NT	NT NT NT NT	1460 942 J 5 U 5 U	18900 812 3.2 J 4.3 J 261 13.2	300 50 10 10	880 0.045 0.045
	LNWmw-026	Iron Manganese Arsenic Arsenic Manganese	NT NT NT NT NT	NT NT NT NT	1460 942 J 5 U 5 U 230 J	18900 812 3.2 J 4.3 J 261	300 50 10 10 50	880 0.045 0.045 880
	LNWmw-026 LNWmw-027	Iron Manganese Arsenic Arsenic Manganese Arsenic	NT NT NT NT NT	NT NT NT NT NT	1460 942 J 5 U 5 U 230 J 11.5 J	18900 812 3.2 J 4.3 J 261 13.2	300 50 10 10 50 10	880 0.045 0.045 880 0.045
	LNWmw-026 LNWmw-027 NTAmw-107	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron	NT NT NT NT NT NT	NT NT NT NT NT NT	1460 942 J 5 U 5 U 230 J 11.5 J 223	18900 812 3.2 J 4.3 J 261 13.2 418	300 50 10 10 50 50 10 300	880 0.045 0.045 880 0.045 11000
	LNWmw-026 LNWmw-027	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese	NT	NT NT NT NT NT NT NT	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J	18900 812 3.2 J 4.3 J 261 13.2 418 253	300 50 10 10 50 10 300 50	880 0.045 0.045 880 0.045 11000 880
	LNWmw-026 LNWmw-027 NTAmw-107	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron	NT	NT N	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330	812 3.2 J 4.3 J 261 13.2 418 253 1420	300 50 10 10 50 10 300 50 300	880 0.045 0.045 880 0.045 11000 880
	LNWmw-026 LNWmw-027 NTAmw-107	Iron Manganese Arsenic Arsenic Manganese Manganese Iron Manganese Iron Manganese Manganese	NT N	NT N	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330 46.1 J	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6	300 50 10 10 50 10 300 50 300 50	880 0.045 0.045 880 0.045 11000 880 11000
	LNWmw-026 LNWmw-027 NTAmw-107	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Iron Manganese Aluminum	NT N	NT N	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330 46.1 J 1100	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6 50 U	300 50 10 10 50 10 300 50 300 50 200	880 0.045 0.045 880 0.045 11000 880 11000 880 36000
	LNWmw-026 LNWmw-027 NTAmw-107	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Iron Manganese Arsenic Iron Manganese Aluminum Arsenic	NT N	NT N	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330 46.1 J 1100 10.8 J	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6 50 U 13.9	300 50 10 10 50 10 300 50 300 50 200 10	880 0.045 880 0.045 11000 880 11000 880 36000 0.045
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-109	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron	NT N	NT NT NT NT NT NT NT NT NT NT NT NT	1460 942 J 5 U 230 J 17.5 J 223 198 J 1330 46.1 J 1100 10.8 J 1460	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6 50 U 13.9 101	300 50 10 10 50 10 300 50 300 50 200 10 300	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Aluminum Arsenic Iron Manganese	NT N	NT N	1460 942 J 5 U 230 J 17.5 J 223 198 J 1330 46.1 J 1100 10.8 J 1460 128 J	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6 50 U 13.9 101 194	300 50 10 10 50 10 300 50 300 50 200 10 300 50	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-109	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Manganese Manganese	NT N	NT N	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330 46.1 J 1100 70.8 J 148 J 84.4 J	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6 50 U 13.9 101 194 155	300 50 10 10 50 10 300 50 300 50 200 10 300 50 50 50 50 50 50 50 50 50	880 0.045 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-110 NTAmw-111	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Manganese Manganese Arsenic	NT N	NT N	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 130 46.1 J 1100 10.8 J 1460 128 J 84.4 J 16.3 J	18900 812 3.2 J 4.3 J 261 13.2 418 253 1420 60.6 50 U 13.9 101 104 155 13.4 J	300 50 10 10 50 10 300 50 300 50 200 10 300 50 10	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880 880 0.045
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-110 NTAmw-111 NTAmw-112	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Arsenic Iron Manganese Arsenic Iron Manganese Arsenic Iron	NT N	NT N	1460 942 J 5 U 230 J 17.5 J 223 198 J 1330 46.1 J 1100 10.8 J 1460 128 J 84.4 J 16.3 J 1600	78900 812 3.2 J 4.3 J 261 73.2 418 253 1420 60.6 50 U 73.9 101 194 155 73.4 J 1820	300 50 10 10 50 10 300 50 300 50 200 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 50 50 50 50 50 50 50 50	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880 880 0.045
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-110 NTAmw-111	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Iron Manganese Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Manganese Manganese Manganese Manganese Manganese Manganese Manganese Manganese Iron Manganese	NT N	NT	1460 942 J 5 U 5 U 230 J 71.5 J 223 198 J 1330 46.1 J 1100 70.8 J 1460 128 J 84.4 J 16.3 J 1600 606 J	78900 812 3.2 J 4.3 J 261 73.2 418 253 1420 60.6 50 U 73.9 101 194 155 73.4 J 1820 692 J	300 50 10 10 50 10 300 50 300 50 200 10 300 50 300 50 10 300 50 300 50 300 50 300 50 300 50 50 50 50 50 50 50 50 50	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880 0.045 11000 880 0.045
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-110 NTAmw-111 NTAmw-112	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Iron Manganese Manganese Manganese Arsenic Iron Manganese Arsenic Iron Manganese Arsenic Iron	NT N	NT	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330 46.1 J 1100 10.8 J 1460 128 J 84.4 J 16.3 J 1600 60 J 11.2 J	78900 812 3.2 J 4.3 J 261 73.2 418 253 1420 60.6 50 U 73.9 101 194 155 73.4 J 1820 692 J 915	300 50 10 10 50 10 300 50 300 50 200 10 300 50 50 10 300 50 10 300 50 10 10 300 50 10 10 10 10 10 10 10 10 10 1	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880 0.045 11000 880 0.045 11000
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-110 NTAmw-111 NTAmw-112 NTAmw-113	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Manganese Manganese Manganese Arsenic Iron Manganese Arsenic Iron Manganese Arsenic Iron Manganese Arsenic Iron Arsenic	NT N	NT N	1460 942 J 5 U 5 U 230 J 17.5 J 223 198 J 1330 46.1 J 1100 10.8 J 1460 128 J 84.4 J 16.3 J 1600 606 J 495 3.9 J	78900 812 3.2 J 4.3 J 261 73.2 418 253 1420 60.6 50 U 73.9 101 194 155 73.4 J 1820 692 J 725 J 915 7.3 J	300 50 10 10 50 10 300 50 300 50 200 10 300 50 10 300 50 10 300 50 10 300 50 10 300 50 300 50 300 50 300 50 300 50 300 50 300 50 50 50 50 50 50 50 50 50	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880 0.045 11000 880 0.045 11000 0.045
NACA Test Area	LNWmw-026 LNWmw-027 NTAmw-107 NTAmw-110 NTAmw-111 NTAmw-112	Iron Manganese Arsenic Arsenic Manganese Arsenic Iron Manganese Iron Manganese Aluminum Arsenic Iron Manganese Aluminum Arsenic Iron Manganese Iron Manganese Manganese Manganese Arsenic Iron Manganese Arsenic Iron Manganese Arsenic Iron	NT N	NT	1460 942 J 5 U 5 U 230 J 11.5 J 223 198 J 1330 46.1 J 1100 10.8 J 1460 128 J 84.4 J 16.3 J 1600 60 J 11.2 J	78900 812 3.2 J 4.3 J 261 73.2 418 253 1420 60.6 50 U 73.9 101 194 155 73.4 J 1820 692 J 915	300 50 10 10 50 10 300 50 300 50 200 10 300 50 50 10 300 50 10 300 50 10 10 300 50 10 10 10 10 10 10 10 10 10 1	880 0.045 880 0.045 11000 880 11000 880 36000 0.045 11000 880 0.045 11000 880 0.045 11000

Table 4-5. Exceedences of MCLs and Region 9 PRGs

		Compound or	Oct-07	Jan-08	Apr-08	Jul-08		Region 9
	Well	Element	Level	Level	Level	Level	MCL	PRG
Area	Number	Detected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
		Arsenic	51.4	NT	11.3 J	NT	10	0.045
	RQLmw-007	Iron	20800	NT	2010 J	NT	300	11000
		Manganese	2730	NT	1530 J	NT	50	880
		Arsenic	61.2	NT	15.4 J	NT	10	0.045
	RQLmw-008	Iron	141000	NT	101000 J	NT	300	11000
	RQLIIIW-006	Manganese	1280	NT	802 J	NT	50	880
		Toxaphene	0.64 J	NT	2 UJ	NT	3	0.061
		Arsenic	36	NT	6.3 J	NT	10	0.045
	RQLmw-009	Iron	17500	NT	869 J	NT	300	11000
		Manganese	2400	NT	1030 J	NT	50	880
	RQLmw-012	Iron	NT	NT	70.5 J	50	300	11000
	KQLIIIW-012	Manganese	NT	NT	216 J	248	50	880
Ramsdell Quarry	RQLmw-013	Aluminum	NT	NT	4310	4340	200	36000
	KQLIIW-013	Iron	NT	NT	4860 J	5180	300	11000
	RQLmw-014	Iron	NT	NT	16900 J	11600	300	11000
	KQLIIW-014	Manganese	NT	NT	3070	3090	50	880
		Arsenic	NT	NT	5 U	3.4 JB	10	0.045
	RQLmw-015	Iron	NT	NT	563 J	537	300	11000
		Manganese	NT	NT	1110	420	50	880
		Arsenic	NT	NT	3.4 J	4.9 JB	10	0.045
	RQLmw-016	Iron	NT	NT	16300 J	28800	300	11000
		Manganese	NT	NT	7460 J	9900	50	880
	RQLmw-017	Aluminum	NT	NT	1160	1660 J	200	36000
		delta-BHC	NT	NT	0.077 J	0.03 U	NS	0.052
		Manganese	NT	NT	6140	4680	50	880
		Arsenic	NT	NT	9.3 J	12.8	10	0.045
	WBGmw-005	Iron	NT	NT	9320	9430	300	11000
		Manganese	NT	NT	1180 J	1220	50	880
	WBGmw-006	RDX	58	NT	NT	NT	NS	0.61
	WBGmw-007	Arsenic	4.5 J	NT	NT	NT	10	0.045
	WBGmw-009	RDX	8.5	NT	NT	NT	NS	0.61
Winklepeck	WDCmu 011	Aluminum	NT	NT	338 J	50 U	200	36000
	WBGmw-011	Iron	NT	NT	775	50 U	300	11000
	WBGmw-014	Manganese	NT	NT	43.6 J	76.4	50	880
		Aluminum	NT	NT	2680 J	32.9 J	200	36000
	WBGmw-017	Arsenic	NT	NT	12 J	5.1 J	10	MCL         PRG ug/L)         (ug/L) (ug/L)           10         0.045           300         11000           50         880           10         0.045           300         11000           50         880           3         0.061           10         0.045           300         11000           50         880           300         11000           50         880           200         36000           300         11000           50         880           10         0.045           300         11000           50         880           10         0.045           300         11000           50         880           10         0.045           300         11000           50         880           10         0.045           80         10           10         0.045           80         80           10         0.045           80         80           NS         0.61           10         0
	WDGIIIW-U1/	Iron	NT	NT	5140	492	300	11000
		Manganese	NT	NT	397 J	196	50	880
		Arsenic	NT	NT	5 U	3.4 J	10	0.045
	MBSmw-001	bis(2-Ethylhexyl) phthalate	NT	NT	10 U	11	NS	4.8
		Manganese	NT	NT	227 J	230	50	880
		Arsenic	NT	NT	15.1 J	9.4	10	0.045
Suspected Mustard	MBSmw-002	Iron	NT	NT	463	504	300	11000
Burial Grounds		Manganese	NT	NT	213 J	223	50	880
		Arsenic	NT	NT	8.6 J	6.2	10	0.045
	MBSmw-005	Iron	NT	NT	1860	1600	300	11000
		Manganese	NT	NT	725 J	802	50	880
	MBSmw-006	Manganese	NT	NT	410 J	390	50	880

#### Notes:

NS = no standard NT = not tested
All inorganics are filtered, all organics are not filtered
J = estimated result. Results have been qualified "J"

Bold = constituent detected above MCL

Bold = constituent detected above Region 9 PRG
B = the analyte is found in the method blank or any of the field blanks
U = analyzed but not detected at or above the reporting limit

Table 4.6 Wells and Consitutents with Time-Trend Graphs

																						late	ë		ene		Φ	
Area	Well	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Cobalt	Copper	Iron	Magnesium	Manganese	Nickel	Potassium	Selenium	Sodium	Thallium	Zinc	Carbon Sulfide	Cyanide	Bis(2- ethylhexyl)phthalate	Di-n-octyl phthlate	1,3,5- Trinitrobenzene	2,4,6-Trinitrotoluene	HMX	1,3-Dinitrobenzne	RDX
	BKGmw-004	Χ												Χ								Х						,
	BKGmw-005							Χ			Х	Х										Χ						
	BKGmw-006							Χ			Х	Х										Х						
	BKGmw-008		Х					Χ														Χ						
	BKGmw-010	Х					Х					Х		Х								Χ						
	BKGmw-012	Х			Х						Х				Х					Х		Χ						
D 1 114/ II	BKGmw-013			Х	Χ			Х			Х	Х										Х						
Background Wells	BKGmw-015				Х									Χ	Χ							X					┌	$\neg$
	BKGmw-016	Х								Χ				Х								Χ					┌	$\neg$
	BKGmw-017	† ·		Х				Χ		<u> </u>	Х			H	Х							X					$\vdash$	
	BKGmw-018			, ·				,,			Х											X						
	BKGmw-019							Χ			Х	Χ										X						
	BKGmw-020				Х						X	Х			Х					Χ		X					$\vdash$	-
	BKGmw-021							Χ			Х	X										X					$\vdash$	
	LL1mw-078	Х	Х											Х				Χ				X					$\vdash$	
Load Line 1	LL1mw-080		X					Χ						X								X		Х	Х	Х	$\vdash$	Χ
Load Line 1	LL1mw-083	Х				Х	Х		Χ	Х				X				Х				X	Х	X	X	X	Х	X
	LL2mw-059	X	Х			^	^		X	^	Х			X				X				X	^	X	^	X	X	X
Landlina O		^									^							^						^		^		
Load Line 2	LL2mw-262		Х	.,				Χ	Х			Χ		X								X						<b>—</b>
	LL2mw-263		Х	Χ					Χ		Χ		Χ	Χ								Χ					<u> </u>	$\vdash$
Load Line 3	LL3mw-238	Х												Χ		Χ						Χ		Χ	Χ	Х		Χ
	LL3mw-242	Х												Χ								Χ						$\sqcup$
Load Line 4	LL4mw-198	Х	Χ						Χ		Χ		Χ	Χ					Χ			Χ						
Edda Ellio 1	LL4mw-199			Χ	Χ		Χ				Х	Χ										Χ						
Load Line 11	LL11mw-002	Х	Χ				Χ	Χ		Χ	Χ	Χ		Χ					Χ			Χ		X				
Edda Eiric 11	LL11mw-007			Χ	Χ			Χ			Х	Х										Χ						I
	LL12mw-153			Χ				Χ			Х	Χ		Χ								X						
Load Line 12	LL12mw-182	X		Χ	Χ			Χ			Х	Х		Χ								Χ						I
Load Line 12	LL12mw-183		Χ	Χ				Χ			Χ	Χ			Χ							Χ						
	LL12mw-186	Х	Χ					Χ	Χ		Χ	Χ		Χ							Χ	Χ						1
Central Burn Pits	CBPmw-006	Х		Х	Χ			Χ			Х	Χ		Χ														
Central Bulli Fits	CBPmw-007		Χ					Χ	Χ		Х	Χ		Χ	Χ		Χ					Χ						
	DA2mw-107			Χ				Χ			Х	Χ										Χ						
Detention Area 2	DETmw-003			Χ				Χ			Х	Χ										X						
	DETmw-004							Χ			Χ	Χ										X				Х		Χ
	RQLmw-007			Χ				Χ	Χ		Χ	Χ	Χ	Χ	Χ			Χ				Х						
Ramsdell Quarry Landfill	RQLmw-008			Χ	Χ			Χ	Χ		Х	Χ		Χ								X		Х				
•	RQLmw-009			Χ					Χ		Х	Χ	Χ	Χ				Χ				Х						
	WBGmw-006	İ						Χ				Χ						Χ				Х				Х		Х
Winklepeck Burning Ground	WBGmw-007							Χ			Х	Χ										X						$\neg$
5F 2211 = 211111.9 <b>3</b> 10 <b>4</b> 114	WBGmw-009	Х	Х					Χ			Х	Χ										Х				Х		Х

reported to be present at concentrations exceeding the respective RL in three or more samples from background wells.

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## 4.2.1 Inorganics

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## <u>Aluminum</u>

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Aluminum is present above the RL in background wells BKGmw-004 (unconsolidated well), BKGmw-010 (bedrock well), BKGmw-12 (bedrock well) and BKGmw-016 (unconsolidated well). The reported concentrations in all four wells show a declining concentration trend. Reported concentrations in all four background wells are below the MCL (200 µg/L) and the PRG (36,000 µg/L), except the July 2006 sample from well BKGmw-004 that was slightly above the MCL. All reported concentrations are above the bedrock and unconsolidated background criterion of "0."

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## Antimony

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Antimony is present above the RL in bedrock background well BKGmw-008. The reported concentrations have declined during the FWGWMP to a concentration below the PRG (15  $\mu$ g/L) and the MCL (6  $\mu$ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the bedrock background criterion of "0."

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#### Arsenic

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Arsenic is present above the RL in unconsolidated background wells BKGmw-013 and BKGmw-017. The reported concentrations in both wells show fluctuation over time without identifiable trend. The reported concentrations in well BKGmw-013 are fluctuating around the MCL (10 µg/L) and the unconsolidated background criterion (11.7 μg/L). The reported concentrations in well BKGmw-013 are above the PRG (0.045 μg/L). The reported concentrations in well BKGmw-017 are above the MCL, the PRG, and the unconsolidated background criterion.

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#### **Barium**

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Barium is present above the RL in unconsolidated background well BKGmw-013. The reported concentrations show fluctuation over time without identifiable trend. The reported concentrations in well BKGmw-013 are fluctuating around the unconsolidated background criterion (82.1 µg/L). The reported concentrations are below the MCL  $(2,000 \mu g/L)$  and the PRG  $(2,600 \mu g/L)$ .

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Barium is present above the RL in bedrock background wells BKGmw-012, BKGmw-43 015 and BKGmw-020. The concentrations in all three wells show fluctuation over time 44 without identifiable trend. The reported concentrations are fluctuating around the 45 bedrock background criterion (256 µg/L). The reported concentrations are below the

46 MCL and the PRG. 1 2

## **Cadmium**

Cadmium is present above the RL in bedrock background well BKGmw-010. The reported concentrations show a significant decline between July and September 2006. This may be related to changes in analytical method or reporting limit. All reported concentrations are below the PRG (18  $\mu$ g/L). Through July 2006 the reported concentrations were at the MCL (5  $\mu$ g/L), but starting in September 2006 the concentrations are below the MCL. All reported concentrations are above the bedrock background criterion of "0."

## Calcium

Calcium is present above the RL in unconsolidated background wells BKGmw-005, BKGmw-013, BKGmw-017, BKGmw-019 and BKGmw-021. The reported concentrations in all five wells show fluctuation over time with no identifiable trends. All reported concentrations are below the unconsolidated background (115,000  $\mu$ g/L) for wells BKGmw-005, BKGmw-013, BKGmw-017, and BKGmw-021. The reported concentration exceeded the unconsolidated background in well MCKmw-019 during the April 2007 sampling event. There are no MCL or PRG criteria for calcium.

Calcium is present above the RL in bedrock background wells BKGmw-006 and BKGmw-018. The reported concentrations in both wells show fluctuation over time. A declining seasonal trend is observed in well BKGmw-006. No identifiable trend is observed in well BKGmw-018. The reported concentrations are at or above the bedrock background criterion.

#### Copper

Copper is present above the RL in unconsolidated background well BKGmw-016. The reported concentrations show little fluctuation. All reported concentrations are below the MCL (1,300  $\mu$ g/L) and the PRG (15,000  $\mu$ g/L). All reported concentrations are above the unconsolidated background criterion of "0."

## <u>Iron</u>

Iron is present above the RL in unconsolidated background wells BKGmw-005, BKGmw-013, BKGmw-017, BKGmw-019, and BKGmw-021. The reported concentrations in all five wells show fluctuation over time without identifiable trend. The reported concentrations fluctuate around the MCL (300  $\mu g/L$ ) and the unconsolidated background criterion (279  $\mu g/L$ ). The reported concentrations are below the PRG (11,000  $\mu g/L$ ).

Iron is present above the RL in bedrock background wells BKGmw-006, BKGmw-012, BKGmw-018, and BKGmw-020. The reported concentrations in all four wells show fluctuation over time without identifiable trend. Some reported concentrations in

BKGmw-006 and BKGmw-020 are above the MCL. All concentrations in all wells are below the PRG and bedrock background criterion (1,430 µg/L).

## **Magnesium**

Magnesium is present above the RL in unconsolidated background wells BKGmw-005, BKGmw-013, BKGmw-017, BKGmw-019 and BKGmw-021. The reported concentrations in all wells, except BKGmw-021, show fluctuation over time without identifiable trend. The reported concentrations in BKGmw-021 show a declining trend. All concentrations are below the unconsolidated background criterion (43,300 µg/L), except BKGmw-017 and BKGmw-021 which are fluctuating around the unconsolidated background criterion. There is no MCL or PRG for magnesium.

Magnesium is present above the RL in bedrock background wells BKGmw-006, BKGmw-010, and BKGmw-020. The reported concentrations in all wells, except BGKmw-006, show fluctuation over time without identifiable trend. The reported concentrations in BKGmw-006 show a declining trend. All reported concentrations in all wells are above the bedrock background criterion (15,000 µg/L).

## **Nickel**

Nickel is present above the RL in unconsolidated background wells BKGmw-004 and BKGmw-016. The reported concentrations show little fluctuation over time. All reported concentrations are below the PRG (730 mg/L) and the MCL (100 mg/L) but above the unconsolidated background criterion of "0."

Nickel is present above the RL in bedrock background wells BKGmw-010 and BKGmw-015. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are below the bedrock background criterion (83.4  $\mu$ g/L), and the PRG (880  $\mu$ g/L). All concentrations are below the MCL (100  $\mu$ g/L).

## **Potassium**

Potassium is present above the RL in unconsolidated background well BKGmw-017. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are fluctuating around the unconsolidated background criterion  $(2,890 \, \mu \text{g/L})$ . There is no MCL or PRG for potassium.

Potassium is present above the RL in bedrock background wells BKGmw-012, BKGmw-015 and BKGmw-020. The reported concentrations in all three wells show a declining trend. All reported concentrations are below the bedrock background criterion (5,770  $\mu$ g/L), except for the October 2006 sample from well BKGmw-012.

## 4.2.2 Volatile and Semi-Volatile Organic Compounds

# **Carbon Disulfide**

Carbon disulfide is reported above the RL in bedrock wells BKGmw-012 and BKGmw-020. The reported concentrations in both wells show little fluctuation over time. All reported concentrations are below the PRG (1,000  $\mu$ g/L). There is no MCL for carbon disulfide.

## Bis(2-ethylhexyl)phthalate

Bis(2-ethylhexyl)phthalate is reported above the RL in unconsolidated background wells BKGmw-004, BKGmw-005, BKGmw-013, BKGmw-016, BKGmw-174, BKGmw-019, and BKGmw-021. The reported concentrations show a wide range of fluctuation without identifiable trend. The reported concentrations fluctuate above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

Bis(2-ethylhexyl)phthalate is reported above the RL in bedrock background wells BKGmw-006, BKGmw-008, BKGmw-010, BKGmw-012, BKGmw-015, BKGmw-018, and BKGmw-020. The reported concentrations show a wide range of fluctuation without identifiable trend. The reported concentrations fluctuate above and below the PRG (4.8  $\mu g/L)$ .

#### 4.3 Load Line 1

Aluminum, antimony, beryllium, cadmium, calcium, cobalt, copper, nickel, thallium, bis(2-ethylhexyl)phthalate, di-n-octyl phthalate, 1,3,5-trinitrobenzene, 2,4,6-trinitrotoluene, HMX, 1,3-dinitrobenzene, and RDX are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 1 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 1 wells.

#### 4.3.1 Inorganics

#### Aluminum

Aluminum is present above the RL in Load Line 1 bedrock wells LL1mw-078 and LL1mw-083. The reported concentrations in both wells show small fluctuation over time. There is no identifiable trend in well LL1mw-078 but an increasing trend is observed in well LL1mw-083. All reported concentrations in well LL1mw-078 are below the MCL (200  $\mu$ g/L) and the PRG (36,000  $\mu$ g/L). All reported concentrations in well LL1mw-083 are above the MCL but below the PRG. All reported concentrations are above the bedrock background criterion of "0."

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#### **Antimony**

Antimony is present above the RL in Load Line 1 bedrock wells LL1mw-078 and LL1mw-080. The reported concentrations in both wells have declined during the FWGWMP to below the PRG (15 µg/L) and the MCL (6 µg/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the bedrock background criterion of "0."

## Beryllium

Beryllium is present above the RL in Load Line 1 bedrock well LL1mw-083. The reported concentrations have declined to below the MCL (4  $\mu$ g/L). All concentrations are below the PRG (73  $\mu$ g/L). All concentrations are above the bedrock background criterion of "0."

## **Cadmium**

Cadmium is present above the RL in Load Line 1 bedrock well LL1mw-083. The reported concentrations show fluctuation over time with no identifiable trend. The reported concentrations are at or below the MCL (5  $\mu$ g/L) and below PRG (18  $\mu$ g/L). All concentrations are above the bedrock background criterion of "0."

## **Calcium**

Calcium is present above the RL in Load Line 1 bedrock well LL1mw-080. The reported concentrations show fluctuation over time with no identifiable trend. Three reported concentrations are above the bedrock background criterion (53,100  $\mu$ g/L) and five are at or below the bedrock background criterion. There are no MCL or PRG criteria for calcium.

#### **Cobalt**

Cobalt is present above the RL in Load Line 1 bedrock wells LL1mw-078 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (730 µg/L), but above the bedrock background criterion of "0." There is no MCL for cobalt.

#### **Copper**

Copper is present above the RL in Load Line 1 bedrock well LL1mw-083. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL (1,300  $\mu$ g/L) and the PRG (1,500  $\mu$ g/L). All reported concentrations are above the bedrock background criterion of "0."

## **Nickel**

Nickel is present above the RL in Load Line 1 bedrock wells LL1mw-078, LL1mw-080 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100  $\mu$ g/L), the PRG (730  $\mu$ g/L) and bedrock background criterion (83.4  $\mu$ g/L).

## **Thallium**

Thallium is present above the RL in Load Line 1 bedrock wells LL1mw-078 and LL1mw-080. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the MCL (2  $\mu$ g/L) and the PRG (2.4  $\mu$ g/L). All reported concentrations are above the bedrock background criterion of "0."

## 4.3.2 Semi-Volatile Organic Compounds

#### Bis(2-ethylhexyl)phthalate

Bis(2-ethylhexyl)phthalate is present above the RL in Load Line 1 bedrock wells LL1mw-078, LL1mw-080 and LL1mw-083. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8 µg/L). There is no MCL for bis(2-ethylhexyl)phthalate.

## Di-n-octyl phthalate

Di-n-octyl phthalate is present above the RL in Load Line 1 bedrock well LL1mw-083. The reported concentrations show small fluctuation over time without identifiable trend. All reported concentrations are below the PRG (1,500  $\mu$ g/L). There is no MCL for di-n-octyl phthalate.

## 4.3.3 Explosives

#### 1,3,5-Trinitrobenzene

1,3,5-Trinitrobenzene is present above the RL in Load Line 1 bedrock wells LL1mw-080 and LL1mw-083. The reported concentrations in both wells show minimal fluctuation over time. All concentrations are below the PRG (1,100  $\mu$ g/L). There is no MCL for 1,3,5-trinitrobenzene.

## 2,4,6-Trinitrotoluene

2,4,6-Trinitrotoluene is present above the RL in Load Line 1 bedrock wells LL1mw-080 and LL1mw-083. The reported concentrations in both wells show fluctuation over time without identifiable trend. All reported concentrations are at or below the PRG (2  $\mu$ g/L) in well LL1mw-080. All reported concentrations are above the PRG in well LL1mw-083. There is no MCL for 2,4,6-trinitrotoluene.

## **HMX**

HMX is present above the RL in Load Line 1 bedrock wells LL1mw-080 and LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800 µg/L). There is no MCL for HMX.

# 1,3-Dinitrobenzene

1,3-Dinitrobenzene (m-dinitrobenzene) is above the RL in Load Line 1 bedrock well LL1mw-083. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (3.6  $\mu$ g/L). There is no MCL for 1,3-dinitrobenzene.

#### **RDX**

RDX is present above the RL in Load Line 1 bedrock wells LL1mw-080 and LL1mw-083. The reported concentrations for well LL1mw-083 show minimal fluctuation over time. The reported concentrations for well LL1mw-080 show significant fluctuation with out identifiable trend. All concentrations for well LL1mw-083 are below the PRG (0.61  $\mu g/L)$ , but all concentrations for well LL1mw-080 are above the PRG. There is no MCL for RDX.

#### 4.4 Load Line 2

Aluminum, antimony, arsenic, calcium, cobalt, iron, magnesium, manganese, nickel, thallium, bis(2-ethylhexyl)phthalate, 1,3,5-trinitrobenzene, HMX, 1,3-dinitrobenzene, and RDX are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 2 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 2 wells.

#### 4.4.1 Inorganics

#### Aluminum

Aluminum is present above the RL in Load Line 2 bedrock well LL2mw-059. The reported concentrations declined significantly between July 2006 and October 2006 possibly related to changes in laboratory reporting limits. All concentrations are below the PRG (36,000  $\mu$ g/L) and MCL (200  $\mu$ g/L). All reported concentrations are above the bedrock background criterion of "0."

#### Antimony

Antimony is present above the RL in Load Line 2 bedrock wells LL2-mw059, LL2mw-062, and LL2mw-063. The reported concentrations have declined during the FWGWMP

to a concentration below the PRG (15  $\mu$ g/L) and the MCL (6  $\mu$ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the bedrock background criterion of "0."

#### **Arsenic**

Arsenic is present above the RL in Load Line 2 bedrock well LL2mw-263. The reported concentrations show fluctuation over time without an identifiable trend. All reported concentrations are above the MCL ( $10 \mu g/L$ ), the PRG ( $0.007 \mu g/L$ ) and the bedrock background criterion of "0."

## Calcium

Calcium is present above the RL in Load Line 2 bedrock well LL2mw-262. The reported concentrations show fluctuation without identifiable trend. The reported concentrations are fluctuating around the bedrock background criterion (53,100  $\mu$ g/L). There are no MCL or PRG criteria for calcium.

## **Cobalt**

Cobalt is present above the RL in Load Line 2 bedrock wells LL2mw-059 and LL2mw-262, and LL2mw-263. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (730  $\mu$ g/L) but above the bedrock background criterion of "0." There is no MCL for cobalt.

#### **Iron**

Iron is present above the RL in Load Line 2 bedrock wells LL2mw-059 and LL2mw-263. The reported concentrations in both wells show fluctuation over time without identifiable trend. All reported concentrations in LL2mw-263 are above the MCL (300  $\mu$ g/L) and bedrock background criterion (1,430  $\mu$ g/L) but all reported concentrations are below the PRG (11,000  $\mu$ g/L). Reported concentrations in LL2mw-059 fluctuate around the MCL and all concentrations are below the PRG and bedrock background criterion.

## Magnesium

Magnesium is present above the RL in Load Line 2 bedrock well LL2mw-262. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are above the bedrock background criterion (15,000  $\mu g/L$ ). There are no MCL or PRG criteria for magnesium.

## **Manganese**

Manganese is present above the RL in Load Line 2 bedrock well LL2mw-263. The reported concentrations show fluctuation over time without identifiable trend. All

concentrations are above the MCL (50  $\mu$ g/L) and PRG (880  $\mu$ g/L). Reported concentrations fluctuate around the bedrock background criterion (1,020  $\mu$ g/L).

## **Nickel**

Nickel is present above the RL in Load Line 2 bedrock wells LL2mw-059, LL2mw-262 and LL2mw-263. The reported concentrations show minimal fluctuation over time without identifiable trend. All reported concentrations are below the MCL (100  $\mu$ g /L), the PRG (730  $\mu$ g/L) and bedrock background criterion (83.4  $\mu$ g/L).

## **Thallium**

Thallium is present above the RL in Load Line 2 bedrock well LL2mw-059. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL (2  $\mu$ g/L) and the PRG (2.4  $\mu$ g/L). All reported concentrations are above the bedrock background criterion of "0."

## 4.4.2 Semi-volatile Organics

Bis(2-ethylhexyl)phthalate is the only semivolatile organic compound (SVOC) present above the RL in Load Line 2 bedrock wells LL2mw-059, LL2mw-062 and LL2mw-063. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

## 4.4.3 Explosives

#### 1,3,5-Trinitrobenzene

1,3,5-Trinitrobenzene is present above the RL in Load Line 2 bedrock well LL2mw-059. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are below the PRG (1,100  $\mu$ g/L). There is no MCL for 1,3,5-trinitrobenzene.

### **HMX**

HMX is present above the RL in Load Line 2 bedrock well LL2mw-059. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800  $\mu$ g/L). There is no MCL for HMX.

## 1,3-Dinitrobenzene

1,3-Dinitrobenzene (m-dinitrobenzene) is present above the RL in Load Line 2 bedrock well LL2mw-059. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (3.6  $\mu g/L$ ). There is no MCL for 1,3-dinitrobenzene.

## **RDX**

RDX is present above the RL in Load Line 2 bedrock well LL2mw-059. The reported concentrations show minimal fluctuation over time. All concentrations are below the PRG (0.61  $\mu$ g/L). There is no MCL for RDX.

#### 4.5 Load Line 3

Aluminum, nickel, selenium, bis(2-ethylhexyl)phthalate, 1,3,5-trinitrobenzene, 2,4,6-trinitrotoluene, HMX, and RDX, are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 3 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 3 wells.

#### 4.5.1 Inorganics

#### **Aluminum**

Aluminum is present above the RL in Load Line 3 bedrock wells LL3mw-238 and LL3mw-242. The reported concentrations in both wells show fluctuation over time with a declining trend after July 2006 that is believed to be related to a laboratory change. All reported concentrations are below the MCL (200  $\mu$ g/L) and the PRG (36,000  $\mu$ g/L). All reported concentrations are above the bedrock background criterion of "0."

#### **Nickel**

Nickel is present above the RL in Load Line 3 bedrock wells LL3mw-238 and LL3mw-242. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL ( $100 \mu g/L$ ), the PRG ( $730 \mu g/L$ ) and bedrock background criterion ( $83.4 \mu g/L$ ).

#### **Selenium**

Selenium is present above the RL in Load Line 3 bedrock well LL3mw-238. The reported concentrations show minimal fluctuation over time with a slight declining trend. All reported concentrations are below the MCL (50  $\mu$ g/L) and the PRG (180  $\mu$ g/L). All reported concentrations are above the bedrock background criterion of "0."

## 4.5.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 3 bedrock wells LL3mw-238 and LL3mw-242. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG ( $4.8 \mu g/L$ ). There is no MCL for bis(2-ethylhexyl)phthalate.

## 4.5.3 Explosives

## 1,3,5-Trinitrobenzene

1,3,5-Trinitrobenzene is present above the RL in Load Line 3 bedrock well LL3mw-238. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are below the PRG (1,100  $\mu$ g/L). There is no MCL for 1,3,5-trinitrobenzene.

## 2,4,6-Trinitrotoluene

2,4,6-Trinitrotoluene is present above the RL in Load Line 3 bedrock well LL3mw-238. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are above the PRG (2  $\mu$ g/L). There is no MCL for 2,4,6-trinitrotoluene.

## **HMX**

HMX is present above the RL in Load Line 3 bedrock well LL3mw-238. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the PRG (1,800 µg/L). There is no MCL for HMX.

## **RDX**

RDX is present above the RL in Load Line 3 bedrock well LL3mw-238. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are above the PRG (0.61  $\mu$ g/L). There is no MCL for RDX.

## 4.6 Load Line 4

Aluminum, antimony, arsenic, barium, calcium, cobalt, iron, magnesium, manganese, nickel, zinc and bis(2-ethylhexyl)phthalate are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 4 wells. No VOC, explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 4 wells.

#### 4.6.1 Inorganics

#### **Aluminum**

Aluminum is present above the RL in Load Line 4 unconsolidated well LL4mw-198. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL (200  $\mu$ g/L) and the PRG (36,000  $\mu$ g/L), except a high reported

concentration in the July 2007 sample is believed to be an outlier. All reported concentrations are above the unconsolidated background criterion of "0."

## **Antimony**

Antimony is present above the RL in Load Line 4 unconsolidated well LL4-mw198. The reported concentrations have declined during the FWGWMP to a concentration below the PRG (15  $\mu$ g/L) and the MCL (6  $\mu$ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the unconsolidated background criterion of "0."

## Arsenic

Arsenic is present above the RL in Load Line 4 unconsolidated well LL4mw-199. The reported concentrations show significant fluctuation over time without identifiable trend. Reported concentrations are above the MCL (10  $\mu$ g/L) in six samples and below the MCL in three samples. All reported concentrations are above the PRG (0.007  $\mu$ g/L). Five of the reported concentrations are above the unconsolidated background criterion (11.7  $\mu$ g/L).

## **Barium**

Barium is present above the RL in Load Line 4 unconsolidated well LL4mw-199. The concentrations show small fluctuation over time without identifiable trend. The reported concentrations are fluctuating at the unconsolidated background criterion (82.1  $\mu$ g/L). The reported concentrations are below the MCL (2,000  $\mu$ g/L) and the PRG (2,600  $\mu$ g/L).

#### Calcium

Calcium is present above the RL in Load Line 4 unconsolidated well LL4mw-199. The reported concentrations show fluctuation over time with an increasing trend. Three reported concentrations are below the unconsolidated background criterion (115,000 µg/L). There are no MCL or PRG criteria for calcium.

#### Cobalt

Cobalt is present above the RL in Load Line 4 unconsolidated well LL4mw-198. The reported concentrations show small fluctuation over time without identifiable trend. All reported concentrations are below the PRG (730  $\mu g/L)$  but above the unconsolidated background criterion of "0." There is no MCL for cobalt.

<u>Iron</u>

Iron is present above the RL in Load Line 4 unconsolidated wells LL4mw-198 and LL4mw-199. The reported concentrations in both wells show large fluctuation over time with an increasing trend. Reported concentrations in both wells are above the MCL (300

 $\mu$ g/L) but below the PRG (11,000  $\mu$ g/L). The reported concentrations are fluctuating at or are above the unconsolidated background criterion (279  $\mu$ g/L).

## **Magnesium**

Magnesium is present above the RL in Load Line 4 unconsolidated well LL4mw-199. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the unconsolidated background criterion (43,300 µg/L). There are no MCL or PRG criteria for magnesium.

## **Manganese**

Manganese is present above the RL in Load Line 4 unconsolidated well LL4mw-198. The reported concentrations show fluctuation over time without trend. All reported concentrations are above the MCL (50  $\mu$ g/L), the PRG (880  $\mu$ g/L) and unconsolidated background criterion (1,020  $\mu$ g/L).

## **Nickel**

Nickel is present above the RL in Load Line 4 unconsolidated well LL4mw-199. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100  $\mu$ g/L), the PRG (730  $\mu$ g/L) and above the unconsolidated background criterion of "0."

#### **Zinc**

Zinc is present above the RL in Load Line 4 unconsolidated well LL4mw-198. The reported concentrations show minimal fluctuation over time without trend. All reported concentrations are below the MCL (5,000  $\mu$ g/L), PRG (11,000  $\mu$ g/L) and unconsolidated background criterion (60.9  $\mu$ g/L).

#### 4.6.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 4 unconsolidated wells LL4mw-198 and LL4mw-199. The reported concentrations fluctuate widely over time without identifiable trend. In both wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

#### **4.7 Load Line 11**

 Aluminum, antimony, arsenic, barium, cadmium, calcium, copper, iron, magnesium, nickel, zinc, bis(2-ethylhexyl)phthalate and 1,3,5-trinitrobenzene are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 11 wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be

present at concentrations exceeding the respective RL in three or more samples from Load Line 11 wells.

## 4.7.1 Inorganics

## **Aluminum**

Aluminum is present above the RL in Load Line 11 unconsolidated well LL11mw-002. The reported concentrations show little fluctuation over time. All reported concentrations are below the PRG (36,000  $\mu$ g/L) and seven of nine results are below the MCL (200  $\mu$ g/L). All reported concentrations are above the unconsolidated background criterion of "0."

#### **Antimony**

Antimony is present above the RL in Load Line 11 unconsolidated well LL11-mw-002. The reported concentrations have declined during the FWGWMP to below the PRG (15  $\mu$ g/L) and the MCL (6  $\mu$ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the unconsolidated background criterion of "0."

### **Arsenic**

Arsenic is present above the RL in Load Line 11 unconsolidated well LL11mw-007. The reported concentrations show fluctuation over time with an increasing trend. Reported concentrations are above the MCL (10  $\mu$ g/L), the PRG (0.007  $\mu$ g/L) and the unconsolidated background criterion (11.7  $\mu$ g/L).

## **Barium**

Barium is present above the RL in Load Line 11 unconsolidated well LL11mw-007. The reported concentrations show little fluctuation over time. The reported concentrations are fluctuating at the unconsolidated background criterion (82.1  $\mu$ g/L). The reported concentrations are below the MCL (2,000  $\mu$ g/L) and the PRG (2,600  $\mu$ g/L).

#### **Cadmium**

Cadmium is present above the RL in Load Line 11 unconsolidated well LL11mw-002. The reported concentrations show fluctuation over time with a declining trend. The reported concentrations fluctuate around the MCL (5  $\mu$ g/L) and are below PRG (18  $\mu$ g/L). All concentrations are above the unconsolidated background criterion of "0."

## **Calcium**

Calcium is present above the RL in Load Line 11 unconsolidated wells LL11mw-002 and LL11mw-007. The reported concentrations show seasonal fluctuation over time. All

reported concentrations are below the unconsolidated background criterion (115,000  $\mu$ g/L). There are no MCL or PRG criteria for calcium.

## **Copper**

Copper is present above the RL in Load Line 11 unconsolidated well LL11mw-002. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL  $(1,300 \, \mu g/L)$  and the PRG  $(1,500 \, \mu g/L)$ . All reported concentrations are above the unconsolidated background criterion of "0."

#### **Iron**

Iron is present above the RL in Load Line 11 unconsolidated wells LL11mw-002 and LL11mw-007. The reported concentrations in both wells show fluctuation over time without identifiable trend. Reported concentrations in both wells are above the MCL (300  $\mu$ g/L) and unconsolidated background criterion (279  $\mu$ g/L). All reported concentrations are below the PRG (11,000  $\mu$ g/L).

## **Magnesium**

Magnesium is present above the RL in Load Line 11 unconsolidated wells LL11mw-002 and LL11mw-007. The reported concentrations in both wells show fluctuation over time without identifiable trend. All reported concentrations below the unconsolidated background criterion (43,300 µg/L). There are no MCL or PRG criteria for magnesium.

## **Nickel**

Nickel is present above the RL in Load Line 11 unconsolidated well LL11mw-002. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100  $\mu$ g/L), the PRG (730  $\mu$ g/L) and above the unconsolidated background criterion of "0."

## **Zinc**

Zinc is present above the RL in Load Line 11 unconsolidated well LL11mw-002. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL (5,000  $\mu$ g/L) and PRG (11,000  $\mu$ g/L). The reported concentrations fluctuate above and below the unconsolidated background concentration (60.9  $\mu$ g/L).

# 4.7.2 Semi-Volatile Organic Compounds

Only bis(2-ethylhexyl)phthalate is present above the RL in Load Line 11 unconsolidated wells LL11mw-002 and LL11mw-007. The reported concentrations fluctuate widely over time without identifiable trend. In both wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

## 4.7.3 Explosives

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Only 1,3,5-trinitrobenzene is present above the RL in Load Line 11 unconsolidated well LL11mw-002. The reported concentrations show minimal fluctuation. All concentrations are below the PRG (1,100 ug/L). There is no MCL for 1,3,5trinitrobenzene.

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#### 4.8 **Load Line 12**

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Aluminum, antimony, arsenic, barium, calcium, cobalt, cyanide, iron, magnesium, nickel, potassium, and bis(2-ethylhexyl)phthalate are reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 12 wells. No VOC, explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Load Line 12 wells.

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#### 4.8.1 Inorganics

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## Aluminum

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Aluminum is present above the RL in Load Line 12 wells LL12-mw-182 (unconsolidated) and LL12mw-186 (bedrock). The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL (200 µg/L) and the PRG (36,000 µg/L). All reported concentrations are above the bedrock and unconsolidated background criterion of "0."

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#### Antimony

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Antimony is present above the RL in Load Line 12 wells LL12-mw-182 (unconsolidated) and LL12mw-186 (bedrock). The reported concentrations have declined during the FWGWMP to below the PRG (15 µg/L) and the MCL (6 µg/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the bedrock and unconsolidated background criterion of "0."

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#### Arsenic

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Arsenic is present above the RL in Load Line 12 unconsolidated wells LL12mw-153, LL12-mw-182 and bedrock well LL12mw-183. The reported concentrations show wide fluctuation over time without identifiable trend. Reported concentrations are above the MCL (10  $\mu$ g/L), the PRG (0.007  $\mu$ g/L), and the background criterion (11.7  $\mu$ g/L for unconsolidated and "0" for bedrock).

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## **Barium**

Barium is present above the RL in Load Line 12 unconsolidated well LL12mw-182. The reported concentrations show little fluctuation over time. The reported concentrations are fluctuating at the unconsolidated background criterion (82.1  $\mu$ g/L). The reported concentrations are below the MCL (2,000  $\mu$ g/L) and the PRG (2,600  $\mu$ g/L).

## Calcium

Calcium is present above the RL in Load Line 12 unconsolidated wells LL12mw-153 and LL12-mw-182, and bedrock wells LL12mw-183 and LL12mw-186. All reported concentrations show fluctuation over time without identifiable trend. Reported concentrations in LL12mw-182 are below the unconsolidated background criterion (115,000  $\mu$ g/L). The reported concentration in LL2mw-153 is above the unconsolidated background criterion. The concentrations of LL12mw-183 and LL12mw-186 are fluctuating at or are above the bedrock background criterion (53,100  $\mu$ g/L). There are no MCL or PRG criteria for calcium.

## Cobalt

Cobalt is present above the RL in Load Line 12 bedrock well LL12mw-186. The reported concentrations show little fluctuation over time. All reported concentrations are below the PRG (730  $\mu$ g/L) but above the bedrock background criterion of "0." There is no MCL for cobalt.

#### **Cyanide**

Cyanide is present above the RL in Load Line 12 bedrock well LL12mw-186. The reported concentrations show little fluctuation over time. All reported concentrations are below the MCL (200  $\mu$ g/L) and the PRG (730  $\mu$ g/L).

#### Iron

Iron is present above the RL in Load Line 12 unconsolidated wells LL12mw-153 and LL12-mw-182, and bedrock wells LL12mw-183 and LL12mw-186. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL (300  $\mu$ g/L) and are fluctuating at or are above the unconsolidated background criterion (279  $\mu$ g/L) and bedrock background criterion (1,430  $\mu$ g/L). All reported concentrations are below the PRG (11,000  $\mu$ g/L).

#### **Magnesium**

Magnesium is present above the RL in Load Line 12 unconsolidated wells LL12mw-153 and LL12-mw-182, and bedrock wells LL12mw-183 and LL12mw-186. The reported concentrations in all wells show fluctuation over time without identifiable trend. All reported concentrations at or above the background criterion (43,300  $\mu$ g/L -

unconsolidated,  $15,000 \,\mu\text{g/L}$  - bedrock). There are no MCL or PRG criteria for magnesium.

**Nickel** 

Nickel is present above the RL in Load Line 12 unconsolidated wells LL12mw-153, LL12-mw-182, and bedrock well LL12mw-186. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100  $\mu$ g/L), the PRG (730  $\mu$ g/L) and above the unconsolidated and bedrock background criterion of "0."

**Potassium** 

Potassium is present above the RL in Load Line 12 unconsolidated well LL12mw-182 and bedrock well LL12mw-183. The reported concentrations show wide fluctuation over time without identifiable trend. All reported concentrations for LL12mw-182 are above the unconsolidated background criterion (2,890  $\mu g/L$ ). All reported concentrations for LL12mw-183 are below the bedrock background criterion (5,770  $\mu g/L$ ) There is no MCL or PRG for potassium.

4.8.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Load Line 12 unconsolidated wells LL12mw-153 and LL12-mw-182, and bedrock wells LL12mw-183 and LL12mw-186. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

4.9 Central Burn Pits Area

Aluminum, antimony, arsenic, barium, calcium, cobalt, iron, magnesium, nickel, potassium, sodium, and bis(2-ethylhexyl)phthalate are reported to be present at concentrations exceeding the respective RL in three or more samples from the Central Burn Pits Area. No VOC, explosive, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from the Central Burn Pits Area wells.

4.9.1 Inorganics

#### **Aluminum**

Aluminum is present above the RL in Central Burn Pits Area unconsolidated well CBPmw-006. The reported concentrations have fluctuated over time without identifiable trend. The reported concentrations are below the PRG (36,000  $\mu$ g/L) and fluctuate

around the MCL (200  $\mu g/L$ ). All concentrations are below the unconsolidated background criterion of "0."

Antimony

Antimony is present above the RL in Central Burn Pits Area unconsolidated well CBPmw-007. The reported concentrations have declined during the FWGWMP to below the PRG (15  $\mu$ g/L) and the MCL (6  $\mu$ g/L). The decline may be related to changes in laboratory reporting limits. All reported concentrations are above the unconsolidated background criterion of "0".

#### **Arsenic**

Arsenic is present above the RL in Central Burn Pits Area unconsolidated wells CBPmw-006 and CBPmw-007. The reported concentrations show wide fluctuation over time with an increasing trend. Reported concentrations are above the MCL (10  $\mu$ g/L), the PRG (0.007  $\mu$ g/L) and the unconsolidated background criterion (11.7  $\mu$ g/L).

## **Barium**

Barium is present above the RL in Central Burn Pits Area unconsolidated well CPBmw-6. The reported concentrations fluctuate over time without identifiable trend. The reported concentrations are below the PRG (2,600  $\mu$ g/L), and the MCL (2,000  $\mu$ g/L) but above the unconsolidated background criterion (82.1  $\mu$ g/L).

## **Calcium**

Calcium is present above the RL in Central Burn Pits Area unconsolidated wells CBPmw-006 and CBPmw-007. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations in well CBPmw-007 are above the unconsolidated background criterion (115,000  $\mu$ g/L) but the concentrations in CBPmw-006 are below background. There are no MCL or PRG criteria for calcium.

## **Cobalt**

Cobalt is present above the RL in Central Burn Pits Area unconsolidated well CBPmw-007. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the PRG (730  $\mu$ g/L) but above the unconsolidated background criterion of "0." There is no MCL for cobalt.

## <u>Iron</u>

Iron is present above the RL in Central Burn Pits Area unconsolidated wells CBPmw-006 and CBPmw-007. The reported concentrations show significant fluctuation over time without identifiable trend. Reported concentrations are above the MCL (300  $\mu$ g/L) and

unconsolidated background criterion (279  $\mu$ g/L). All reported concentrations are below the PRG (11,000  $\mu$ g/L).

#### **Magnesium**

Magnesium is present above the RL in Central Burn Pits Area unconsolidated wells CPBmw-006 and CBPmw-007. The reported concentrations fluctuate over time without identifiable trend. The reported concentrations in well CBPmw-007 are above the unconsolidated background criterion (43,300  $\mu$ g/L) but the reported concentrations in well CPBmw-006 are below the unconsolidated background criterion. There is not MCL or PRG.

#### Nickel

Nickel is present above the RL in Central Burn Pits Area unconsolidated wells CBPmw-006 and CBPmw-007. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below the MCL (100  $\mu$ g/L), the PRG (730  $\mu$ g/L) and above the unconsolidated background criterion of "0."

#### **Potassium**

Potassium is present above the RL in Central Burn Pits Area unconsolidated well CBPmw-007. The reported concentrations show fluctuation over time with a declining trend. All reported concentrations are above the unconsolidated background criterion (2,890 µg/L). There is no MCL or PRG for potassium.

#### **Sodium**

Sodium is present above the RL in Central Burn Pits Area unconsolidated well CBPmw-007. The reported concentrations show fluctuation over time with a declining trend. All concentrations are above the unconsolidated background criterion (45,700  $\mu$ g/L). There are no MCL or PRG criteria for sodium.

#### 4.9.2 Semi-Volatile Organic Compounds

 Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Central Burn Pits Area unconsolidated well CBPmw-007. The reported concentrations fluctuate widely over time without identifiable trend. The reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

#### 4.10 Demolition Area #2

Arsenic, calcium, iron, magnesium, bis(2-ethylhexyl)phthalate HMX and RDX are reported to be present at concentrations exceeding the respective RL in three or more samples from the Demolition Area #2 wells. No VOC, PCB Arochlor, pesticide or

herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Demolition Area #2 wells.

#### 4.10.1 Inorganics

#### **Arsenic**

Arsenic is present above the RL in Demolition Area #2 unconsolidated wells DA2mw-107 and DETmw-003. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are generally below the MCL (10  $\mu$ g/L) and the unconsolidated background criterion (11.7  $\mu$ g/L). All reported concentrations are above the PRG (0.045  $\mu$ g/L).

#### **Calcium**

Calcium is present above the RL in Demolition Area #2 unconsolidated wells DA2mw-107, DETmw-003 and DETmw-004. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations in well DETmw-004 are above the unconsolidated background criterion (115,000  $\mu$ g/L). Reported concentrations in wells DA2mw-107 and DETmw-003 are below the background criterion. There are no MCL or PRG criteria for calcium.

#### **Iron**

Iron is present above the RL in Demolition Area #2 unconsolidated wells DA2mw-107, DETmw-003, and DETmw-004. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL (300  $\mu$ g/L) and unconsolidated background criterion (279  $\mu$ g/L). All reported concentrations are below the PRG (11,000 ug/L).

#### **Magnesium**

Magnesium is present above the RL in Demolition Area #2 unconsolidated wells DA2mw-107, DETmw-003 and DETmw-004. The reported concentrations in all wells show fluctuation over time without identifiable trend. All reported concentrations are at or below the unconsolidated background criterion (43,300  $\mu$ g/L). There are no MCL or PRG criteria for magnesium.

#### 4.10.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Demolition Area #2 unconsolidated wells DA2mw-107, DETmw-003 and DETmw-004. The reported concentrations fluctuate widely in all three wells over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

#### 4.10.3 Explosives

#### **HMX**

HMX is present above the RL in Demolition Area #2 unconsolidated well DETmw-004. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800  $\mu$ g/L). There is no MCL for HMX.

#### **RDX**

RDX is present above the RL in Demolition Area #2 unconsolidated well DETmw-004. The reported concentrations show fluctuation over time without identifiable trend. All concentrations are below the PRG (0.61  $\mu$ g/L). There is no MCL for RDX.

#### 4.11 Ramsdell Quarry Landfill

Arsenic, barium, calcium, cobalt, iron, magnesium, manganese, nickel, potassium, thallium, bis(2-ethylhexyl)phthalate, and 1,3,5-trinitrobenzene are reported to be present at concentrations exceeding the respective RL in three or more samples from Ramsdell Quarry Landfill wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Ramsdell Quarry Landfill wells.

#### 4.11.1 Inorganics

#### **Arsenic**

Arsenic is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are above the MCL (10  $\mu$ g/L), the PRG (0.045  $\mu$ g/L) and the bedrock background criterion of "0."

#### **Barium**

Barium is present above the RL in Ramsdell Quarry Landfill bedrock well RQLmw-008. The reported concentrations show seasonal fluctuation over time with a declining trend. The reported concentrations are below the MCL (2,000  $\mu$ g/L), the PRG (2,600  $\mu$ g/L) and the bedrock background criterion (256  $\mu$ g/L).

# **Calcium**

Calcium is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007 and RQLmw-008. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are above the bedrock background criterion (53,100  $\mu$ g/L). There are no MCL or PRG criteria for calcium.

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#### Cobalt

4 5 6 Cobalt is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, ROLmw-008 and ROLmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (730 µg/L) but above the bedrock background criterion of "0." There is no MCL for cobalt.

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#### Iron

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Iron is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show fluctuation over time without identifiable trend. Reported concentrations are generally above the MCL (300  $\mu$ g/L), the PRG (11,000  $\mu$ g/L) and bedrock background criterion (1,430  $\mu$ g/L).

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#### Magnesium

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Magnesium is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations in all wells show wide fluctuation over time without identifiable trend. All reported concentrations are above the bedrock background criterion (15,000 µg/L). There are no MCL or PRG criteria for magnesium.

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#### Manganese

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Manganese is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007 and RQLmw-009. The reported concentrations fluctuate widely over time without identifiable trend. Reported concentrations are above the MCL (50 µg/L), the PRG (880  $\mu$ g/L) and the bedrock background criterion (1,340  $\mu$ g/L).

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#### <u>Nickel</u>

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Nickel is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the MCL (100 µg/L), the PRG (730  $\mu$ g/L) and bedrock background criterion (83.4  $\mu$ g/L).

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#### **Potassium**

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Potassium is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations show fluctuation over time with a declining trend. Reported concentrations are at or above the bedrock background criterion (5,770 µg/L). There is no MCL or PRG for potassium.

#### **Thallium**

Thallium is present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007 and RQLmw-009. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the MCL (2  $\mu$ g/L) and the PRG (2.4  $\mu$ g/L) but above the bedrock background criterion of "0."

#### 4.11.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Ramsdell Quarry Landfill bedrock wells RQLmw-007, RQLmw-008 and RQLmw-009. The reported concentrations fluctuate widely in all three wells over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

#### 4.11.3 Explosives

1,3,5-Trinitrobenzene is the only explosive present above the RL in Ramsdell Quarry Landfill bedrock well RQLmw-008. The reported concentrations show minimal fluctuation. All concentrations are below the PRG (1,100 ug/L). There is no MCL for 1,3,5-trinitrobenzene.

#### 4.12 Winklepeck Burning Grounds

Aluminum, antimony, calcium, iron, magnesium, thallium, bis(2-ethylhexyl)phthalate, HMX and RDX are reported to be present at concentrations exceeding the respective RL in three or more samples from the Winklepeck Burning Grounds wells. No VOC, PCB Arochlor, pesticide or herbicide is reported to be present at concentrations exceeding the respective RL in three or more samples from Winklepeck Burning Grounds wells.

#### 4.12.1 Inorganics

#### <u>Aluminum</u>

Aluminum is present above the RL in Winklepeck Burning Grounds unconsolidated well WBGmw-009. The reported concentrations show fluctuation over time with a declining trend. Reported concentrations are below the MCL (200  $\mu$ g/L) and the PRG (36,000  $\mu$ g/L). All reported concentrations are above the unconsolidated background criterion of "0."

#### **Calcium**

Calcium is present above the RL in Winklepeck Burning Grounds unconsolidated wells WBGmw-006, WBGmw-007, and WBGmw-009. The reported concentrations show fluctuation over time without identifiable trend. All reported concentrations are below

the unconsolidated background criterion (115,000  $\mu g/L$ ). There are no MCL or PRG criteria for calcium.

Iron

Iron is present above the RL in Winklepeck Burning Grounds unconsolidated wells WBGmw-007 and WBGmw-009. The reported concentrations show little fluctuation over time. Reported concentrations fluctuate around the MCL (300 ug/L) and the unconsolidated background criterion (279 ug/L). All reported concentrations are below the PRG (11,000  $\mu$ g/L).

Magnesium

Magnesium is present above the RL in Winklepeck Burning Grounds unconsolidated wells WBGmw-006, WBGmw-007, and WBGmw-009. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the unconsolidated background criterion (43,300  $\mu$ g/L). There are no MCL or PRG criteria for magnesium.

**Thallium** 

Thallium is present above the RL in Winklepeck Burning Grounds unconsolidated well WBGmw-006. The reported concentrations fluctuate over time without identifiable trend. All reported concentrations are below the MCL (2  $\mu$ g/L) and the PRG (2.4  $\mu$ g/L) but above the unconsolidated background criterion of "0."

4.12.2 Semi-Volatile Organic Compounds

Bis(2-ethylhexyl)phthalate is the only SVOC present above the RL in Winklepeck Burning Grounds unconsolidated wells WBGmw-006, WBGmw-007 and WBGmw-009. The reported concentrations fluctuate widely over time without identifiable trend. In all wells the reported concentrations are above and below the PRG (4.8  $\mu$ g/L). There is no MCL for bis(2-ethylhexyl)phthalate.

4.12.3 Explosives

**HMX** 

HMX is present above the RL in Winklepeck Burning Grounds unconsolidated wells WBGmw-006 and WBGmw-009. The reported concentrations show minimal fluctuation over time. All reported concentrations are below the PRG (1,800  $\mu$ g/L). There is no MCL for HMX.

#### **RDX**

RDX is present above the RL in Winklepeck Burning Grounds unconsolidated wells WBGmw-006 and WBGmw-009. The reported concentrations show fluctuation over time without identifiable trend in WBGmw-009. A declining trend is evident over time in WBGmw-006. All concentrations are above the PRG (0.61  $\mu$ g/L). There is no MCL for RDX.

#### 4.13 MCL and Region 9 PRG Exceedances

Table 4-5 (page 74) lists all wells and compounds or elements of concern reported to be present in samples collected during the FWGMP in October 2007 and January, March and July 2008 at concentrations greater than either the MCLs or the PRGs. This section summarizes those conditions and is presented by analyte group (e.g., inorganics, explosives, etc.). No VOC was reported to be present in any well at concentrations greater than its respective MCL or PRG. Perchlorate was not reported to be present above the PRG in any sample. There is no MCL for perchlorate.

#### 4.13.1 Inorganics

Aluminum (17 wells), arsenic (67 wells), iron (95 wells), lead (2 wells) and manganese (112 wells) are the only inorganics reported to be present in samples at concentrations exceeding either MCLs or PRGs. One or more of these inorganics was present above MCLs or PRGs during at least one sample event in 130 wells. As general observations: 1) the aluminum MCL (200  $\mu$ g/L) was exceeded but not the PRG (36,000  $\mu$ g/L); 2) arsenic concentrations exceeded the PRG (0.045  $\mu$ g/L) but not the MCL (10  $\mu$ g/L); 3) iron concentrations exceeded the MCL (300  $\mu$ g/L) but not the PRG (11,000  $\mu$ g/L); and 4) lead concentrations exceeded the MCL (15  $\mu$ g/L) and there is no PRG; and 5) manganese concentrations exceeded both the MCL (50  $\mu$ g/L) and the PRG (880  $\mu$ g/L).

#### 4.13.2 Semivolatile Organic Compounds

Bis(2-ethylhexyl)phthalate (LL1mw-065, LL2mw-270, LL12mw-189, CPmw-002, CPmw-006, EBGmw-129, FBQmw-166, and MBSmw-001), pentachlorophenol (LL2mw-270), indeno(1,2,3-cd) (B12mw-010)pyrene, dibenzo(a)anthracene (CPmw-006) are the only SVOCs reported to be present in samples at concentrations exceeding their respective PRGs. There are no MCLs for any of these SVOCs.

#### 4.13.3 Pesticides and Herbicides

beta-BHC (LL3mw-237, LL12mw-188, FBQmw-174, and RQLmw-017), heptachlor epoxide (LL12mw-184), and toxaphene (RQLmw-008) are the only pesticides and herbicides reported to be present in samples at concentrations exceeding their respective PRGs. There are no MCLs for any of these pesticides and herbicides.

#### 4.13.4 Explosives and Propellants

1,3-Dinitorbenzene (LL2mw-238), 2,4-dinitrobenzene (LL2mw-238), 4-nitrotoluene (LL2mw-238), 2,4,6-Trinitrobenzene (LL1mw-083), 2,4,6-TNT (LL3mw-237 and LL3mw241), HMX (LL1mw-063), and RDX (LL2mw-238, LL3mw241, WBGmw-006, and WBGmw-009) are the only explosives and propellants reported to be present in samples at concentrations exceeding the respective PRGs. There are no MCLs for these explosives and propellants.

#### 4.13.5 PCBs

The PCB Arochlor 1242 was reported to be present in the sample from well DA2mw-104 at a concentration above the PRG. There is no MCL for PCBs.

#### 4.14 Assessment of Groundwater Remedial Action Effectiveness

Groundwater remedial actions have not been performed to date at RVAAP and therefore are not discussed in this report.

**SECTION 5** 

1 2 3

#### FWGWMP ANNUAL RECOMMENDATIONS/REVIEW

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#### 5.1 FWGWMP Annual Recommendations

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It is recommended that the FWGWMP groundwater monitoring continue as scheduled until all FWGWMP wells at the facility have been sampled and analyzed a minimum of 4 quarters.

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#### 5.2 Background Well Issues

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Previous discussions between the Army and the Ohio EPA have dealt with concerns that the background wells may have been impacted by the facility. The specific issues related to the background wells at RVAAP include the presence of explosives and the exceedance of health/aesthetic criteria (MCLs). An additional question is related to the presence of naturally occurring elements (e.g., aluminum, copper, nickel, etc) previously establish to have a "0" background concentration in background wells. Prior to addressing the concern that background needs to be re-evaluated, it is necessary to point out that the background data are not conclusive that explosives are present. While a few explosive compounds have been reported in samples at estimated ("J") concentrations, these reports are isolated and not recurrent. Background wells can be used to address one or both of the following: 1) define regional water-quality conditions without the effects of human activities and 2) define the quality of groundwater flowing into an area of interest (e.g., AOC) from a neighboring site that may show effects of outside actions (i.e., groundwater contaminated from other sources). The Army recognizes that there are issues associated with background water-quality data and suggests that background data require re-evaluation. This re-evaluation should include the actual quality of water in the wells and the location of the wells with respect to objective. The Army considers the FWGWMP to be a fluid program allowing for re-evaluation and re-definition. The Army has initiated this re-evaluation with the presentation in October 2007 of the Draft Proposal to Update the Facility-Wide Ground Water Monitoring Program. The major premise of this document is that previous interpretations of the groundwater regime at RVAAP are not completely accurate. If the Ohio EPA agrees with this conclusion and the subsequent reinterpretation of groundwater flow systems, the locations and objectives of background wells can be re-considered. Inspection of the locations of background wells in relationship to the newly interpreted groundwater flow regime (as described in the Annual Report) suggests that only wells BKGmw-005, BKGmw-006, and BKGmw-018 may be located to establish unaffected regional water-quality conditions. All other background wells may be located hydraulically down gradient from activities and practices at RVAAP that may result in measurable affects.

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Following the completion of the initial groundwater monitoring for all wells at the facility, the data will be further evaluated as it relates to background issues.

# **5.3** Reporting Limits

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Several analytical methods used to analyze a number of explosives, VOCs, metals,
SVOCs, and pesticides currently do not meet the RVAAP QAPP reporting limits or
Region 9 preliminary remediation goals (PRGs). Tables listing the reporting limits that
currently do not meet the RVAAP QAPP PQLs and/or Region 9 PRG levels are
presented in Appendix I.

1	SECTION 6
2	
3	REFERENCES
4	
5	
6	Portage Environmental, 2004. RVAAP Facility-Wide Groundwater Monitoring Program
7	Plan.
8	SAIC 2001 BVAAD Escilia Wide Sampline and Analysis Dlan/Ovality Assurance
9 10	SAIC, 2001. RVAAP Facility-Wide Sampling and Analysis Plan/Quality Assurance Project Plan.
11	r rojeci r tan.
12	SAIC, 2001b. Phase II Remedial Investigation report for the Winklepeck Burning
13	Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio.
14	Grounds at Navellul IIII of Indianation I tall, Navellul, Cities
15	SAIC/REIMS, 2005. Table of Reported Construction Depths from REIMS Information.
16	
17	SpecPro, Inc., 2005a. Facility-Wide Groundwater Monitoring Program Report on the
18	April 2005 Sampling Event, Ravenna Training and Logistics Site / Ravenna Army
19	Ammunition Plant, Ravenna, Ohio.
20	
21	SpecPro, Inc., 2005b: Facility-Wide Groundwater Monitoring Program, Report on the
22	July 2005 Sampling Event, Ravenna Training and Logistics Site/Ravenna Army
23 24	Ammunition Plant, Ravenna, Ohio
25	SpecPro, Inc. 2006a. Facility-Wide Groundwater Monitoring Program, Annual Report
26	for 2005, Ravenna Training and Logistics Site/Ravenna Army Ammunition Plant,
27	Ravenna, Ohio
28	
29	SpecPro, Inc. 2006b. Facility-Wide Groundwater Monitoring Program, Report on the
30	March 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio
31	
32	SpecPro, Inc. 2006c, Facility-Wide Groundwater Monitoring Program, Report on the
33	May 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio
34	Cons. Dur. Los 2006 d (Durfe) E 'll' W'l Co. 1 d M 'd ' D
35	SpecPro, Inc. 2006d. (Draft) Facility-Wide Groundwater Monitoring Program, Annual
36 37	Report for 2006, Ravenna Army Ammunition Plant, Ravenna, Ohio
38	SpecPro, Inc. 2007a. Facility-Wide Groundwater Monitoring Program, Report on the
39	July 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio
40	
41	SpecPro, Inc. 2007b. Facility-Wide Groundwater Monitoring Program, Report on the
<del>1</del> 2	October 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio
43	
44	SpecPro, Inc. 2007c. Facility- Wide Groundwater Monitoring Program, Report on the
45 46	January 2006 Sampling Event, Ravenna Army Ammunition Plant, Ravenna, Ohio.
16	

1 Environmental Quality Management, Inc. 2007d. Facility- Wide Groundwater 2 Monitoring Program, Report on the April 2007 Sampling Event, Ravenna Army 3 Ammunition Plant, Ravenna, Ohio. 4 5 Environmental Quality Management, Inc. 2007e. Facility- Wide Groundwater 6 Monitoring Program, Report on the July 2007 Sampling Event, Ravenna Army 7 Ammunition Plant, Ravenna, Ohio. 8 9 Environmental Quality Management, Inc. 2007f, Facility- Wide Groundwater Monitoring 10 Program, Report on the October 2007 Sampling Event, Ravenna Army Ammunition 11 Plant, Ravenna, Ohio. 12 13 Environmental Quality Management, Inc. 2008g, Facility- Wide Groundwater 14 Monitoring Program, Report on the January 2008 Sampling Event, Ravenna Army 15 Ammunition Plant, Ravenna, Ohio. 16 17 Environmental Quality Management, Inc. 2008h, Facility-Wide Groundwater 18 Monitoring Program, Report on the April 2008 Sampling Event, Ravenna Army 19 Ammunition Plant, Ravenna, Ohio. 20 21 Environmental Quality Management, Inc. 2008h, Draft Facility- Wide Groundwater 22 Monitoring Program, Report on the July 2008 Sampling Event, Ravenna Army 23 Ammunition Plant, Ravenna, Ohio. 24 25 U.S. Army Corps of Engineers. October 2007. Draft Proposal to Update the Facility-26 Wide Ground Water Monitoring Program.

# APPENDIX A

# CORRESPONDENCE DOCUMENTING THE CHANGE IN WELLS TO BE SAMPLED IN 2008



#### DEPARTMENT OF THE ARMY

U.S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS P.O. BOX 59 LOUISVILLE, KENTUCKY 40201-0059

December 12, 2007

**Engineering Division** 

Vicki Deppisch
Ohio Environmental Protection Agency
Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087

Dear Ms. Deppisch:

Re: Notification of Annual Sampling Schedule Facility-wide Ground water Monitoring Program Ravenna Army Ammunition Plant Portage/Trumbull Counties, Ohio

This letter is to serve as notification that the United States Army Corps of Engineers (USACE) will be changing the sampling frequency of 36 of the existing Facility-wide Ground Water Monitoring Program (FWGWMP) wells from quarterly sampling to annual sampling. As we discussed yesterday, this change is in accordance with Section 4.2, Sampling Frequency, on page 4-5 of the September 2004 Facility-wide Ground Water Monitoring Program Plan (FWGWMPP), which states that the initial monitoring frequency for the FWGWMP wells will be three consecutive quarters, and then it will revert to annual sampling, except for the OD#2 and RQL wells, which will be sampled semi-annually. Our next sampling event for the 36 current FWGWMP wells will occur in October 2008.

During the January, April, and July 2008 sampling events, USACE will sample other monitoring wells that have only been sampled during the Remedial Investigations at Load Lines 1, 2, 3, 4, and 12. These wells are identified in the last column of Table 4 in the October 22, 2007 document entitled "Draft Proposal to Update the Facility-wide Ground Water Monitoring Program", where they are numbered "1" through "36". Throughout this process, USACE will continue to comply with the sampling frequency requirements for the Ramsdell Quarry Landfill and Open Demolition Area #2 wells.

We appreciate your assistance with this matter. Copies have been provided to Eileen Mohr and Bonnie Buthker of Ohio EPA, Glen Beckham, USACE (via email) and John Miller, EQM (via email) and Mark Krivanski USAEC (via email) and Katie Elgin, OHARNG RTLS (via email). Please call Rick Hockett at 502.315.6329 if you have any questions or comments regarding this matter.

Sincerely,

Richard B. Hockett, P.G.

Geologist, Environmental Branch

Louisville District

Subject: FW: FWGWMP modifications

From: "Hockett, Rick B LRL" < Rick.B. Hockett@usace.army.mil>

**Date:** Tue, 8 Jan 2008 14:10:27 -0500 **To:** "John Miller" < jmiller@eqm.com>

Oops! I meant to copy you on this.

Rick

----Original Message---From: Hockett, Rick B LRL

Sent: Tuesday, January 08, 2008 2:08 PM

To: 'Vicki Deppisch'

Cc: 'Eileen Mohr'; Beckham, Glen LRL; Ries, Cynthia A LRL; Chanda, Thomas M

LRL; 'Patterson, Mark C Mr CIV USA OSA'; 'Krivansky, Mark E USAEC'

Subject: FWGWMP modifications

#### Vicki:

Just got back from lunch and listened to your voice mail message regarding the proposed changes to the FWGWMP. Sounds good! To summarize:

- 1. New well sampling. It's okay to proceed with rotating the new wells into the January sampling event, and not sample the "old" wells those which have been sampled quarterly since 2005. The new wells will be all of the non-FWGWMP wells from LL-1, LL-2, LL-3, LL-4, and all but one of the non-FWGWMP wells at LL-12.
- 2. Annual sampling on old wells. You would prefer to not perform annual sampling on the old wells in October 2008, because that would interrupt the quarterly sampling pattern on the new wells. I agree. We will do four consecutive sampling events on the new wells; January, April, July, and October 2008.
- 3. Sampling order selection criteria. You requested that we provide a description of how the 196 wells were ordered for sampling (per table 4 of the Draft Proposal to Update the FWGWMP). In a nutshell, I thought it made the most sense to do the major load lines first (LL-1, LL-2, LL-3, LL-4, and LL-12), and then follow that effort with the remaining wells. In order to simplify things for the sampling team, I kept all wells at each AOC together, so that the samplers will not be visiting sites all over the facility during each event. That approach also makes the ground water elevation measurements more useable, since all wells at a given AOC that is being sampled will be measured, and we'll get a good snapshot of the ground water flow conditions at that AOC. That's really about all there was to it there's just not a lot more to base the sampling order on.
- 4. Perchlorate. You are not comfortable that the perchlorate sampling performed on the October 2008 ground water samples is sufficient to end the perchlorate sampling altogether. You suggested that we discuss a strategy for additional sampling. I suggest that each time we rotate a new group of wells through the four quarters of sampling, that we sample for perchlorate during one of those events. I would prefer that it not be the first event of the four, other than that, I think we should sample at the second, third, or forth quarterly event. Let's do each well once, and then evaluate the perchlorate data at the end of the sampling along with all of the other ground water quality data.

You didn't specifically mention it, but it's worth noting that we will continue to sample the five RCRA wells at RQL and ODA#2 on a semi-annual basis - no changes there at all.

Please let me know if any of this isn't correct.

#### FW: FWGWMP modifications

Thanks.

Rick

Richard B. Hockett, P.G. Environmental Branch Louisville District US Army Corps of Engineers

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# APPENDIX B

# LIST OF WELLS SAMPLED

Area	Well	October 2007	January 2008	April 2008	July 2008
	BKGmw-004	Х			
	BKGmw-005	Х			
	BKGmw-006	Х			
	BKGmw-008	. X			
	BKGmw-012	X			
	BKGmw-013	Х			
Background Wells	BKGmw-015	Х			
	BKGmw-016	Х			
	BKGmw-017	Х			
•	BKGmw-018	X			
	BKGmw-019	Х			
	BKGmw-020	Х			
	BKGmw-021	Х			
	LL1mw-063		Х	X	X
	LL1mw-064	<u> </u>		Х	Х
	LL1mw-065		Х	X	Х
Load Line 1	LL1mw-078	Х			
	LL1mw-079		Х	X	X
	LL1mw-080	X			
	LL1mw-083	Х			
	LL2mw-059	Х			
	LL2mw-060	ļ	Х	X	X
	LL2mw-261		Х	X	Х
	LL2mw-262	X			
Load Line 2	LL2mw-263	Х			
	LL2mw-264		Х	X	X
	LL2mw-265	<u> </u>	Х	Χ	X
	LL2mw-268		Х	X	X
	LL2mw-270		Х	X	X
	LL3mw-232		Х	X	X
	LL3mw-233		Х	X	X
	LL3mw-234		Х	X	X
	LL3mw-235		X	X	X
Load Line 3	LL3mw-237		Х	Х	X
	LL3mw-238	Х		.,	
	LL3mw-240		X	X	X
	LL3mw-241	<del>                                     </del>	Х	Х	Х
	LL3mw-242	Х	- <del></del>		
	LL3mw-243		X	X	X
•	LL4mw-193	1	X	X	X
	LL4mw-194	. *	X	X	X
Load Line 4	LL4mw-195		Х	Х	Х
	LL4mw-198	X			
	LL4mw-199	Х			
	LL4mw-200		I I	Х	· X

Area	Well	October 2007	January 2008	April 2008	July 2008	
	LL5mw-001			Χ	. X	
	LL5mw-002			Χ	Χ.	
Load Line 5	LL5mw-003			Χ	Х	
Load Line 5	LL5mw-004			Χ	Х	
•	LL5mw-005			Χ	Х	
	LL5mw-006			Χ	Х	
	LL6mw-001			Х	Х	
landlina C	LL6mw-002			Χ.	Х	
Load Line 6	LL6mw-003			Х	Х	
	LL6mw-004				Х	
1 111 44	LL11mw-002	Х				
Load Line 11	LL11mw-007	X				
	LL12mw-088		Х	Х	Х	
•	LL12mw-107		X	X	X	
	LL12mw-113		X	X	X	
	LL12mw-128		X	X	X	
	LL12mw-153	Х	<del>- ^ -  </del>			
	LL12mw-154	^	х	Х	Х	
	LL12mw-182	V	<del></del>	^		
		X				
	LL12mw-183	Х				
1 11: 40	LL12mw-184		X	X	X	
Load Line 12	LL12mw-185		X	X	X	
	LL12mw-186	X				
	LL12mw-187		X	X	X	
	LL12mw-188		Х	Χ	Х	
	LL12mw-189			Χ	Х	
	LL12mw-242		X	Χ	Х	
	LL12mw-243		Х	Χ	Х	
	LL12mw-244		X	Χ	Х	
	LL12mw-245		Х	Х	Х	
	LL12mw-246		Х	Χ	Х	
	B12mw-010			X	Х	
Building 1200	B12mw-011			Х	Х	
J	B12mw-012	i i		X	X	
	CBLmw-001			X	X	
	CBLmw-002			X	X	
C-Block Quarry	CBLmw-003			X	X	
	CBLmw-004			X	X	
	CBPmw-001			X	X	
				$\frac{\hat{x}}{x}$	X	
	CBPmw-002 CBPmw-003			- x	X	
Control Dum Dito						
Central Burn Pits	CBPmw-004			X	X	
	CBPmw-006	X		Х	Х	
	CBPmw-007	Х			.,	
	CBPmw-008			Χ .	X	
•	CPmw-001		ļ	Χ	X	
	CPmw-002			Χ	Х	
Cobbs Pond	CPmw-003		ļ	Х	X	
CODDO F ONG	CPmw-004			Χ	Х	
	CPmw-005			Х	X	
	CPmw-006			Х	X	

Area	Well	October 2007	January 2008	April 2008	July 2008
	DA2mw-104			Χ	Х
	DA2mw-105			Χ	Х
	DA2mw-106			Χ	Х
	DA2mw-107	X			
	DA2mw-108			Х	Х
Demolition Area #2	DA2mw-109			Х	Х
00.1101101171104172	DA2mw-110	<u> </u>		Х	Χ -
	DA2mw-111			Х	· X
	DA2mw-112			X	X
	DA2mw-113			Х	X
	DETmw-003	X		Х	
	DETmw-004	Х		Χ	
	EBGmw-123			X	X
	EBGmw-124	<u> </u>		X	X
	EBGmw-125			X	Х
Erie Burning Grounds	EBGmw-126			Х	Х
ŭ	EBGmw-127		<u>_</u>	X	X
	EBGmw-128			X	X
	EBGmw-129			X	Х
	EBGmw-130			X	Х
	FBQmw-166			Х	Х
	FBQmw-167			X	X
	FBQmw-168			X	X
	FBQmw-169			X	X
	FBQmw-170			X	Х
Fuse & Booster Quarry	FBQmw-171			Х	Х
	FBQmw-172			Х	X
<b> </b>	FBQmw-173			X	X
1	FBQmw-174	<u> </u>		X	X
	FBQmw-175			X	X
ŀ	FBQmw-176		-	, X	X
	FBQmw-177			X	
	LNWmw-024			X	X
Landfill North of Winklepeck	LNWmw-025			X	X
· · · · · · · · · · · · · · · · · · ·	LNWmw-026			X	X
	LNWmw-027 MBSmw-001			· X	X
-				X	X
-	MBSmw-002			X	X
Suspected Mustard Agent	MBSmw-003 MBSmw-004			x	
ŀ				x	X
ŀ	MBSmw-005 MBSmw-006			· X	X
	NTAmw-107			<del>^</del>	$\frac{\lambda}{X}$
	NTAmw-107				$\frac{\lambda}{X}$
	NTAmw-109			X	
ŀ	NTAmw-109 NTAmw-110			X	X
ŀ	NTAmw-110	<u> </u>		X	X
ŀ	NTAmw-111		-	X	X
NACA Test Area	NTAmw-113	-		X	X
-	NTAMW-113 NTAMW-114			X	X
ŀ	NTAmw-115	1		×	<u>X</u>
}	NTAmw-116	}			
}	NTAmw-116	<del>                                     </del>		X	X
	NTAHW-117			X	X

Area	Well	October 2007	January 2008	April 2008	July 2008
	RQLmw-007	Х		Χ	
* •	RQLmw-008	Х		Χ	
	RQLmw-009	X		X	
	RQLmw-012			Χ	Х
Ramsdell Quarry Landfill	RQLmw-013			Χ	Х
	RQLmw-014	-		Χ	Х
	RQLmw-015			Χ	X
•	RQLmw-016			Χ	Х
	RQLmw-017			Χ	Х
	WBGmw-005			Χ	Х
	WBGmw-006	Х			
	WBGmw-007	Х			
	WBGmw-009	Х			
	WBGmw-010			Χ	Х
Winklepeck Burning Ground	WBGmw-011			Χ	Х
Wilkiepeck bulling Glound	WBGmw-012			X.	Х
	WBGmw-013		-	Χ	Х
	WBGmw-014			Х	Х
	WBGmw-015			Х	Х
	WBGmw-016			Х	Х
	WBGmw-017			Х	Х
Total Number of Wells	40	36	136	132	

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1	0
1	1
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# APPENDIX C

### PERCHLORATE ADDENDUM AND OHIO EPA APPROVAL LETTER



State of Ohio Environmental Protection Agency

#### **Northeast District Office**

2110 East Aurora Rd. Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769 www.epa.state.oh.us

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

August 6, 2007

RE:

RAVENNA ARMY AMMUNITION PLANT, PROTAGE/TRUMBULL COUNTIES,

PERCHLORATE ANALYSIS ADDENDUM.

DATED AUGUST 1, 2007

Mr. Irv Venger Environmental Program Manager Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266

**CERTIFIED MAIL** 

Dear Mr. Venger:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the "Perchlorate Analysis Addendum" for the Facility-Wide Groundwater Monitoring Program at the Ravenna Army Ammunition Plant, Ravenna, Ohio. This document was received at Ohio EPA, Northeast District Office (NEDO), Division of Emergency and Remedial response (DERR) on August 2, 2007. The document was prepared for the U.S. Army Corps of Engineers (USACE) – Louisville District, by Environmental Quality Management, Inc., under contract no. W912QR-04-D-0036. The addendum states the perchlorate analysis is scheduled to begin for the October 2007 monitoring event and outlines the sampling and analysis protocol.

Ohio EPA concurs with the perchlorate addendum. Please forward a copy of the addendum to all other stakeholders, to ensure that their comments will be incorporated. If you have any questions, please call me at (330) 963-1207.

Sincerely,

Vicki Deppisch Project Coordinator

Division of Emergency and Remedial Response.

VD/kss

CC:

ec:

Bonnie Buthker, Ohio EPA, DERR, SWDO Eileen Mohr, Ohio EPA, NEDO, DERR

PPBEL

Katie Elgin, OHARNG RTLS Maj. Ed Meade, OHARNG RTLS Rick Hockett, USACE Louisville

Mike Eberle, Ohio EPA, NEDO, DERR Todd Fisher, Ohio EPA, NEDO, DERR John Jent, USACE Louisville John Miller, EQM Mark Krivansky, AEC

Glen Beckham, USACE Louisville

# PERCHLORATE ANALYSIS ADDENDUM FACILITY-WIDE GROUNDWATER MONITORING PROGRAM RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO AUGUST 2007

During the October 2007 sampling event, the 36 Facility-wide Ground Water Monitoring Program (FWGWMP) wells and the five RCRA wells at ODA#2 and the Ramsdell Quarry Landfill will be sampled for perchlorate analysis. In addition, monitoring well LL\_12mw-187 will be sampled for perchlorate and nitrate/nitrite during this sampling event (LL12mw-187 is not currently included in the FWGWMP).

The perchlorate sampling and analysis will be conducted in accordance with the most recent version of the DoD Perchlorate Handbook, with all appropriate OA/OC measures, including duplicates, splits, and MS/MSDs. Control limits for the LCS and MS/MSD will be 80-120%, with RPD criteria set at 15%. Groundwater samples will be collected into laboratory provided, unpreserved 125 ml polyethylene containers using the same low-flow purging technique specified in the FWGWMP utilizing dedicated tubing and submersible pumps which will be properly decontaminated between sample locations. An equipment rinsate blank will be collected daily to determine that decontamination procedures have been effective. All samples shall be filtered in the field at the time of collection using 0.2-um PTFE membrane filters, with a 0.8-um pre-filter, in order to remove potentially perchlorate-degrading microbes. Aliquots for perchlorate analysis will be collected after all other parameters have been sampled for. Adequate headspace (i.e. fill the 125 ml bottle approximately two-thirds full) will be maintained in each sample bottle in an effort to minimize the possibility of anaerobic conditions developing during sample shipment and/or storage. The analytical holding time for perchlorate is 28 days.

Samples will be transported on ice at  $4 \pm 2$  °C via STL-North Canton laboratory courier directly to their laboratory. STL-North Canton will then ship samples priority overnight, taking steps to maintain sample temperatures at  $4 \pm 2$  °C, to the STL-Denver laboratory for analysis by SW-846 Method 6860. STL-Denver maintains a NELAC accreditation and routinely performs work per the requirements of the DoD QSM. The laboratory reporting limits will be  $0.1~\mu g/L$ .

The reporting requirements and deliverables for the perchlorate analysis will be the same as specified in the FWGWMP. The results of the perchlorate testing will be verified by qualified EQ personnel and included in the October 2007 Quarterly Sampling Report, and in the 2008 Annual Report.

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# APPENDIX D

# BENZOIC ACID APPROVAL LETTER



#### State of Ohio Environmental Protection Agency

#### **Northeast District Office**

2110 East Aurora Rd. Twinsburg, Ohio 44087

**TELE:** (330) 963-1200 **FAX:** (330) 487-0769 www.epa.state.oh.us

RE:

Ted Strickland, Governor Lee Fisher, Lieutenant Governor Chris Korleski, Director

September 18, 2008

RAVENNA ARMY AMMUNITION PLANT, PORTAGE/TRUMBULL COUNTIES, DRAFT, FWGWMP, ANALYTICAL EXCEPTIONS TO THE LOUISVILLE CHEMISTRY GUIDELINES (LCG) FOR WORK PERFORMED IN SUPPORT OF THE GROUND WATER MONITORING PROGRAM, DATED AUGUST 4, 2008

Mr. Mark Patterson Installation Manager Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266

**CERTIFIED MAIL** 

(7008 0150 0001 7111 1142)

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the "Analytical Exceptions to the Louisville Chemistry Guidelines (LCG) for Work Performed in Support of the Groundwater Monitoring Program at the Ravenna Army Ammunition Plant" document. The document was received at Ohio EPA, Northeast District Office (NEDO), Division of Emergency and Remedial Response (DERR), on August 4, 2008. The document was prepared for the U.S. Army Corps of Engineers (USACE) – Louisville District, by Environmental Quality Management, Inc. (EQM). This document was reviewed by Ohio EPA personnel in NEDO's DERR.

EQM and Test America Laboratories (TA), North Canton, have requested four variances to the LCG in regards to analytical work performed in support of the Facility-Wide Ground Water Monitoring Program (FWGWMP).

The following are Ohio EPA's comments:

1. The LCG specifies method blank, initial calibration blank, and continuing calibration blank acceptance criteria to be less than one-half the Method Reporting Limit (MRL). EQM is proposing acceptance criteria be revised to less than the MRL.

Ohio EPA's comment: Please have EQM and TA identify and provide a list to Ohio EPA of the chemicals of concern that are problematic for meeting the criteria before a final decision can be made.

- 2. The LCG specifies that the MRL Level Verification be at least three times the Method Detection Limit (MDL). It also suggests that MRLs be established at approximately one-half the project action level, in this case, the Required Project Quantitation Limits (RPQL). EQM is proposing the laboratory set the MRL standard at the RPQL.
  - Ohio EPA's comment: Please have EMQ and TA identify and provide a list to Ohio EPA of the chemicals of concern that are problematic for meeting the criteria before a final decision can be made.
- 3. The LCG allows up to five compounds to meet criteria for the Initial Calibration (IC) and Continuing Calibration Verification (CCV) for 8260 and 8270. The Initial Calibration

MR. MARK PATTERSON, INSTALLATION MANAGER RAVANNA ARMY AMMUNITION PLANT SEPTEMBER 18, 2008 PAGE 2

Verification (ICV) for both allow for 5% sporadic marginal failure. EQM is proposing to allow up to five compounds for both methods to meet the expanded criteria in the IC, CCV, and ICV.

Ohio EPA comment: This can be allowed without impacting the overall analysis and allow for more consistent monitoring and evaluation, but the Continuing Calibration Compounds (CCCs) and the System Performance Calibration Compounds (SPCCs) must meet the quality control criteria for 8260 and 8270. Also, any compound that is detected and quantified must meet the quality control criteria for 8260 or 8270.

4. The LCG specifies control limits for Laboratory Control Sample (LCS). The two compounds in question are benzoic acid and hexachlorocyclopentadiene. EQM is proposing to use laboratory in-house limits with the lower acceptance limit set at 10% for these two constituents.

Ohio EPA comment: Benzoic acid is a poor chromatographic compound and does have lower overall recoveries compared to the other compounds in the 8270 method. This compound is not a primary chemical of concern at the RVAAP and historically has not been detected. This compound also has a PRG of 150,000 ug/L and poses little risk. The proposal is acceptable for benzoic acid.

Please ask EQM to verify and provide documentation that hexachlorocyclopentadiene is indeed a compound of concern. A cursory review of the analytical data did not indicate that this compound was a problem.

If you have any questions, please call me at (330) 963-1207.

Sincerely.

Vicki Deppisch Project Coordinator

Division of Emergency and Remedial Response

iche Deposed

VD/kss

ec:

cc: Bonnie Buthker, Ohio EPA, DERR, SWDO Katie Elgin, OHARNG RTLS Glen Beckham, USACE Louisville Conni McCambridge, Ohio EPA, DERR, NEDO Gunars Zikmanis, Ohio EPA, DERR, NEDO

Eileen Mohr, Ohio EPA, DERR, NEDO Maj. Ed Meade, OHARNG RTLS Derek Kinder, USACE Louisville Mark Krivansky, AEC John Miller, EQM

Mike Eberle, Ohio EPA, DERR, NEDO

Todd Fisher, Ohio EPA, DERR, NEDO

# APPENDIX E

# WATER LEVEL MEASUREMENT FIELD SHEETS

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	l Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
MBS	MW-004	Suspect Mustard Area	6/30/2008	1205	16.67	26.70	Hard	05767
MBS	MW-003	Suspect Mustard Area	6/30/2008	1220	18.53	30.87	Hard	05767
MBS	MW-002	Suspect Mustard Area	6/30/2008	1229	18.01	30.52	Hard	05767
MBS	MW-005	Suspect Mustard Area	6/30/2008	1232	17.85	30.19	Soft	05767
MBS	MW-001	Suspect Mustard Area	6/30/2008	1236	17.59	31.10	Hard	05767
MBS	MW-006	Suspect Mustard Area	6/30/2008	1238	17.30	28.30	Medium	05767
NTA	MW-107	NACA Test Area	6/30/2008	1300	12.75	24.56	Hard	05767
NTA	MW-108	NACA Test Area	6/30/2008	1305	17.79	24.69	Soft	05767
NTA	MW-109	NACA Test Area	6/30/2008	1309	12.12	21.10	Hard	05767
NTA	MW-110	NACA Test Area	6/30/2008	1315	14.30	29.95	Hard	05767
NTA	MW-113	NACA Test Area	6/30/2008	1328	6.95	29.79	Hard	05767
NTA	MW-111	NACA Test Area	6/30/2008	1338	3.89	22.28	Hard	05767
NTA	MW-118	NACA Test Area	6/30/2008	1345	8.77	24.89	Hard	05767
NTA	MW-117	NACA Test Area	6/30/2008	1350	13.65	27.70	Hard	05767
NTA	MW-116	NACA Test Area	6/30/2008	1352	6.35	22.76	Hard	05767
NTA	MW-115	NACA Test Area	6/30/2008	1356	14.05	25.43	Hard	05767
NTA	MW-114	NACA Test Area	6/30/2008	1400	6.17	22.98	Hard	05767
NTA	MW-112	NACA Test Area	6/30/2008	1402	8.96	26.84	Hard	05767
BKG	MW-016	Background	6/30/2008	1420	6.34	21.35	Hard	05767
BKG	MW-005	Background	6/30/2008	1427	12.02	21.07	Hard	05767
BKG	MW-017	Background	6/30/2008	1442	18.10	36.15	Hard	05767
CBL	MW-001	C-Block Quarry	6/30/2008	1455	40.65	49.95	Hard	05767
CBL	MW-002	C-Block Quarry	6/30/2008	1502	35.31	47.52	Hard	05767
CBL	MW-004	C-Block Quarry	6/30/2008	1510	33.59	47.22	Hard	05767

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	II Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
CBL	MW-003	C-Block Quarry	6/30/2008	1515	33.13	44.92	Hard	05767
BKG	MW-019	Background	6/30/2008	1525	19.99	35.85	Hard	05767
LL11	MW-002	Loadline 11	6/30/2008	1536	2.82	16.59	Hard	05767
LL11	MW-001	Loadline 11	6/30/2008	1550	9.74	21.65	Hard	05767
LL11	MW-003	Loadline 11	6/30/2008	1600	2.49	16.22	Hard	05767
LL11	MW-005	Loadline 11	6/30/2008	1605	7.89	16.58	Hard	05767
LL11	MW-006	Loadline 11	6/30/2008	1610	4.71	15.85	Hard	05767
LL11	MW-007	Loadline 11	6/30/2008	1618	14.30	25.46	Hard	05767
LL11	MW-009	Loadline 11	6/30/2008	1628	3.85	19.68	Hard	05767
LL11	MW-008	Loadline 11	6/30/2008	1632	3.04	15.86	Hard	05767
LL11	MW-010	Loadline 11	6/30/2008	1638	4.60	23.60	Hard	05767
LL11	MW-004	Loadline 11	6/30/2008	1645	1.55	16.33	Hard	05767
LL7	MW-001	Loadline 7	6/30/2008	1700	20.26	33.22	Hard	05767
LL7	MW-004	Loadline 7	6/30/2008	1705	14.55	32.38	Hard	05767
LL7	MW-003	Loadline 7	6/30/2008	1717	11.19	33.71	Hard	05767
LL7	MW-006	Loadline 7	6/30/2008	1720	10.92	30.49	Hard	05767
LL7	MW-005	Loadline 7	6/30/2008	1725	21.43	30.53	Hard	05767
LL7	MW-002	Loadline 7	6/30/2008	1730	15.25	27.37	Hard	05767
FBQ	MW-177	Fuze and Booster Quarry	7/1/2008	825	12.75	25.04	Soft	05767
FBQ	MW-170	Fuze and Booster Quarry	7/1/2008	830	18.64	32.88	Hard	05767
FBQ	MW-175	Fuze and Booster Quarry	7/1/2008	834	16.88	26.00	Hard	05767
FBQ	MW-174	Fuze and Booster Quarry	7/1/2008	836	16.02	23.04	Hard	05767
FBQ	MW-173	Fuze and Booster Quarry	7/1/2008	845	42.25	51.89	Hard	05767
FBQ	MW-172	Fuze and Booster Quarry	7/1/2008	854	25.78	34.56	Hard	05767

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	l Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
FBQ	MW-171	Fuze and Booster Quarry	7/1/2008	900	18.12	31.60	Hard	05767
FBQ	MW-168	Fuze and Booster Quarry	7/1/2008	905	12.24	21.42	Hard	05767
FBQ	MW-176	Fuze and Booster Quarry	7/1/2008	910	9.10	24.23	Soft	05767
FBQ	MW-169	Fuze and Booster Quarry	7/1/2008	918	6.88	18.26	Hard	05767
FBQ	MW-167	Fuze and Booster Quarry	7/1/2008	921	4.89	19.16	Hard	05767
FBQ	MW-166	Fuze and Booster Quarry	7/1/2008	930	5.15	19.90	Hard	05767
LL8	MW-001	Loadline 8	7/1/2008	940	11.24	27.09	Soft	05767
LL8	MW-002	Loadline 8	7/1/2008	945	18.03	32.74	Soft	05767
LL8	MW-003	Loadline 8	7/1/2008	950	11.77	23.20	Hard	05767
LL8	MW-004	Loadline 8	7/1/2008	955	10.79	22.87	Medium	05767
LL8	MW-006	Loadline 8	7/1/2008	958	19.75	27.28	Hard	05767
LL8	MW-005	Loadline 8	7/1/2008	1005	13.24	27.34	Hard	05767
LL6	MW-003	Loadline 6	7/1/2008	1015	16.14	25.91	Hard	05767
LL6	MW-005	Loadline 6	7/1/2008	1030	12.20	22.44	Hard	05767
LL6	MW-007	Loadline 6	7/1/2008	1100	6.82	19.53	Hard	05767
LL6	MW-004	Loadline 6	7/1/2008	1110	17.25	24.70	Hard	05767
LL6	MW-002	Loadline 6	7/1/2008	1115	21.19	24.65	Hard	05767
LL6	MW-006	Loadline 6	7/1/2008	1125	14.05	17.95	Hard	05767
LL6	MW-001	Loadline 6	7/1/2008	1140	13.92	17.78	Hard	05767
LL5	MW-002	Loadline 5	7/1/2008	1150	21.90	27.04	Soft	05767
LL5	MW-005	Loadline 5	7/1/2008	1155	21.70	29.89	Hard	05767
LL5	MW-006	Loadline 5	7/1/2008	1200	20.32	27.27	Hard	05767
LL5	MW-004	Loadline 5	7/1/2008	1205	18.15	25.58	Hard	05767
LL5	MW-003	Loadline 5	7/1/2008	1210	19.59	24.15	Hard	05767

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	l Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
LL5	MW-001	Loadline 5	7/1/2008	1215	20.19	27.22	Hard	05767
LL10	MW-004	Loadline 10	7/1/2008	1225	13.38	33.69	Hard	05767
LL10	MW-006	Loadline 10	7/1/2008	1232	12.63	26.67	Hard	05767
LL10	MW-005	Loadline 10	7/1/2008	1240	15.69	29.39	Hard	05767
LL10	MW-002	Loadline 10	7/1/2008	1245	17.69	29.95	Hard	05767
LL10	MW-001	Loadline 10	7/1/2008	1250	23.74	29.74	Hard	05767
LL10	MW-003	Loadline 10	7/1/2008	1255	21.34	28.70	Hard	05767
LL9	MW-001	Loadline 9	7/1/2008	1302	15.79	23.49	Hard	05767
LL9	MW-004	Loadline 9	7/1/2008	1310	20.45	35.83	Hard	05767
LL9	MW-006	Loadline 9	7/1/2008	1315	19.20	28.98	Hard	05767
LL9	MW-007	Loadline 9	7/1/2008	1320	9.57	18.28	Hard	05767
LL9	MW-005	Loadline 9	7/1/2008	1325	16.59	23.66	Hard	05767
LL9	MW-002	Loadline 9	7/1/2008	1330	12.60	22.90	Hard	05767
LL9	MW-003	Loadline 9	7/1/2008	1335	12.70	24.32	Hard	05767
ASY	MW-001	Atlas Scrap Yard	7/1/2008	1355	11.43	23.30	Hard	05767
ASY	MW-002	Atlas Scrap Yard	7/1/2008	1410	13.64	23.10	Hard	05767
ASY	MW-009	Atlas Scrap Yard	7/1/2008	1415	12.29	24.69	Hard	05767
ASY	MW-006	Atlas Scrap Yard	7/1/2008	1420	13.62	29.08	Hard	05767
ASY	MW-010	Atlas Scrap Yard	7/1/2008	1425	12.84	31.25	Hard	05767
ASY	MW-007	Atlas Scrap Yard	7/1/2008	1430	14.69	28.82	Hard	05767
ASY	MW-008	Atlas Scrap Yard	7/1/2008	1435	5.56	27.69	Hard	05767
ASY	MW-005	Atlas Scrap Yard	7/1/2008	1442	8.18	27.39	Hard	05767
ASY	MW-004	Atlas Scrap Yard	7/1/2008	1453	9.42	29.94	Hard	05767
ASY	MW-003	Atlas Scrap Yard	7/1/2008	1456	12.40	23.60	Hard	05767

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	l Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
BKG	MW-008	Background	7/1/2008	1515	16.69	27.58	Hard	05767
BKG	MW-004	Background	7/1/2008	1520	13.14	22.42	Hard	05767
BKG	MW-021	Background	7/1/2008	1525	13.37	21.67	Hard	05767
BKG	MW-015	Background	7/1/2008	1536	48.80	53.17	Hard	05767
BKG	MW-006	Background	7/1/2008	1545	22.38	37.69	Hard	05767
BKG	MW-018	Background	7/1/2008	1615	15.62	27.70	Hard	05767
DA2	MW-104	Demo Area 2	7/1/2008	1700	20.52	29.38	Hard	05767
DET	DET-1	Demo Area 2	7/1/2008	1703	22.78	38.69	Hard	05767
DET	DET-2	Demo Area 2	7/1/2008	1708	32.75	42.21	Hard	05767
DA2	MW-108	Demo Area 2	7/1/2008	1715	6.20	17,34	Hard	05767
DA2	MW-106	Demo Area 2	7/1/2008	1722	5.25	16.97	Hard	05767
DA2	MW-105	Demo Area 2	7/1/2008	1726	3.58	16.40	Hard	05767
DA2	MW-107	Demo Area 2	7/1/2008	1732	7.05	17.02	Hard	05767

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	II Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
EBG	MW-128	Erie Burning Grounds	6/30/2008	1155	6.82	28.33	Hard	OH01266
EBG	MW-127	Erie Burning Grounds	6/30/2008	1203	6.35	32.94	Hard	OH01266
EBG	MW-126	Erie Burning Grounds	6/30/2008	1211	2.29	27.85	Hard	OH01266
EBG	MW-129	Erie Burning Grounds	6/30/2008	1215	6.13	31.14	Hard	OH01266
EBG	MW-125	Erie Burning Grounds	6/30/2008	1223	11.72	27.56	Hard	OH01266
EBG	MW-123	Erie Burning Grounds	6/30/2008	1229	9.57	34.90	Medium	OH01266
EBG	MW-124	Erie Burning Grounds	6/30/2008	1233	3.19	32.84	Medium	OH01266
EBG	MW-130	Erie Burning Grounds	6/30/2008	1255	6.70	28.46	Hard	OH01266
RQL	MW-015	Ramsdell Quarry	6/30/2008	1309	29.49	42.11	Soft	OH01266
RQL	MW-016	Ramsdell Quarry	6/30/2008	1313	33.80	41.75	Hard	OH01266
RQL	MW-006	Ramsdell Quarry	6/30/2008	1316	33.09	41.82	Hard	OH01266
RQL	MW-012	Ramsdell Quarry	6/30/2008	1320	20.72	32.75	Hard	OH01266
RQL	MW-011	Ramsdell Quarry	6/30/2008	1324	20.90	35.43	Hard	OH01266
RQL	MW-014	Ramsdell Quarry	6/30/2008	1328	19.03	31.25	Soft	OH01266
RQL	MW-010	Ramsdell Quarry	6/30/2008	1332	24.23	35.12	Hard	OH01266
RQL	MW-013	Ramsdell Quarry	6/30/2008	1341	24.32	36.55	Hard	OH01266
RQL	MW-007	Ramsdell Quarry	6/30/2008	1346	5.16	18.70	Hard	OH01266
RQL	MW-008	Ramsdell Quarry	6/30/2008	1350	5.20	18.74	Hard	OH01266
RQL	MW-009	Ramsdell Quarry	6/30/2008	1354	3.97	18.63	Hard	OH01266
RQL	MW-017	Ramsdell Quarry	6/30/2008	1417	28.23	32.85	Hard	OH01266
LL1	MW-067	Loadline 1	6/30/2008	1425	16.95	25.69	Hard	OH01266
LL1	MW-078	Loadline 1	6/30/2008	1454	30.22	41.18	Soft	OH01266
LL1	MW-063	Loadline 1	6/30/2008	1458	23.94	30.01	Hard	OH01266
LL1	MW-083	Loadline 1	6/30/2008	1502	31.20	41.51	Hard	OH01266

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	II Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
LL1	MW-084	Loadline 1	6/30/2008	1506	27.76	38.97	Hard	OH01266
LL1	MW-085	Loadline 1	6/30/2008	1511	33.53	45.16	Hard	OH01266
LL1	MW-082	Loadline 1	6/30/2008	1515	27.28	41.48	Soft	OH01266
LL1	MW-081	Loadline 1	6/30/2008	1519	29.57	41.96	Hard	OH01266
LL1	MW-079	Loadline 1	6/30/2008	1524	30.26	41.82	Hard	OH01266
LL1	MW-080	Loadline 1	6/30/2008	1533	9.68	22.28	Hard	OH01266
LL1	MW-064	Loadline 1	6/30/2008	1543	2.12	21.01	Hard	OH01266
LL1	MW-065	Loadline 1	6/30/2008	1548	11.85	23.01	Hard	OH01266
LL2	MW-060	Loadline 2	6/30/2008	1556	9.77	17.22	Soft	OH01266
LL2	MW-265	Loadline 2	6/30/2008	1558	9.33	24.52	Hard	OH01266
LL2	MW-059	Loadline 2	6/30/2008	1601	12.75	21.84	Hard	OH01266
LL2	MW-269	Loadline 2	6/30/2008	1610	17.01	30.39	Hard	OH01266
LL2	MW-264	Loadline 2	6/30/2008	1615	7.02	22.47	Hard	OH01266
LL2	MW-263	Loadline 2	6/30/2008	1618	8.63	22.65	Hard	OH01266
LL2	MW-262	Loadline 2	6/30/2008	1622	8.55	22.75	Hard	OH01266
LL2	MW-266	Loadline 2	6/30/2008	1624	11.87	22.80	Medium	OH01266
LL2	MW-261	Loadline 2	6/30/2008	1630	7.09	22.55	Hard	OH01266
LL2	MW-267	Loadline 2	6/30/2008	1639	9.92	22.80	Hard	OH01266
LL2	MW-268	Loadline 2	6/30/2008	1645	15.02	30.00	Hard	OH01266
LL2	MW-270	Loadline 2	6/30/2008	1652	9.25	22.50	Hard	OH01266
B12_	MW-010	Building 1200	6/30/2008	1705	17.19	22.91	Hard	OH01266
B12	MW-012	Building 1200	6/30/2008	1709	18.71	24.90	Hard	OH01266
B12	MW-011	Building 1200	6/30/2008	1712	19.32	26.82	Hard	OH01266
BKG	MW-010	Background	6/30/2008	1717	16.46	22.10	Hard	OH01266

<sup>\*</sup>All measurements from top of casing

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

	l Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
BKG	MW-012	Background	6/30/2008	1725	9.41	62.06	Soft	OH01266
CP	MW-006	Cobbs Pond	6/30/2008	1730	8.78	20.75	Hard	OH01266
WBG	MW-009	Winklepeck Burning	7/1/2008	822	13.59	24.44	Hard	OH01266
WBG	MW-013	Winklepeck Burning	7/1/2008	828	10.49	24.24	Medium	OH01266
WBG	MW-012	Winklepeck Burning	7/1/2008	833	15.61	31.75	Hard	OH01266
WBG	MW-011	Winklepeck Burning	7/1/2008	842	10.61	23.96	Medium	OH01266
WBG	MW-005	Winklepeck Burning	7/1/2008	851	5.83	21.24	Hard	OH01266
WBG	MW-010	Winklepeck Burning	7/1/2008	856	8.06	23.48	Soft	OH01266
LNW	MW-025	Landfill North Winklepeck	7/1/2008	913	4.96	20.42	Hard	OH01266
LNW	MW-027	Landfill North Winklepeck	7/1/2008	918	6.72	26.98	Medium	OH01266
LNW	MW-026	Landfill North Winklepeck	7/1/2008	923	5.63	26.11	Hard	OH01266
LNW	MW-024	Landfill North Winklepeck	7/1/2008	929	12.10	22.44	Hard	OH01266
WBG	MW-006	Winklepeck Burning	7/1/2008	943	7.99	20.27	Hard	OH01266
WBG	MW-016	Winklepeck Burning	7/1/2008	948	17.12	25.32	Soft	OH01266
WBG	MW-007	Winklepeck Burning	7/1/2008	953	17.37	26.50	Hard	OH01266
WBG	MW-014	Winklepeck Burning	7/1/2008	956	16.33	25.10	Soft	OH01266
WBG	MW-008	Winklepeck Burning	7/1/2008	1000	14.99	20.96	Hard	OH01266
WBG	MW-015	Winklepeck Burning	7/1/2008	1006	12.56	23.63	Hard	OH01266
WBG	MW-017	Winklepeck Burning	7/1/2008	1025	9.13	23.78	Medium	OH01266
BKG	MW-020	Background	7/1/2008	1036	9.41	33.31	Hard	OH01266
BKG	MW-013	Background	7/1/2008	1040	12.27	28.08	Hard	OH01266
CP	MW-002	Cobbs Pond	7/1/2008	1054	0.99	15.08	Hard	OH01266
CP	MW-003	Cobbs Pond	7/1/2008	1109	2.12	17.83	Hard	OH01266
CP	MW-001	Cobbs Pond	7/1/2008	1115	4.50	14.81	Hard	OH01266

<sup>\*</sup>All measurements from top of casing

#### **COMPREHENSIVE WATER LEVEL MEASUREMENTS**

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

**JULY 2008** 

	II Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
СР	MW-004	Cobbs Pond	7/1/2008	1129	11.89	22.66	Hard	OH01266
СР	MW-005	Cobbs Pond	7/1/2008	1134	11.01	43.30	Hard	OH01266
CBP	MW-005	Central Burn Pits	7/1/2008	1153	11.98	27.52	Medium	OH01266
CBP	MW-007	Central Burn Pits	7/1/2008	1200	15.32	31.88	Medium	OH01266
СВР	MW-004	Central Burn Pits	7/1/2008	1203	10.64	29.76	Medium	OH01266
CBP	MW-003	Central Burn Pits	7/1/2008	1208	11.71	30.31	Hard	OH01266
CBP	MW-002	Central Burn Pits	7/1/2008	1213	7.86	32.14	Medium	OH01266
CBP	MW-001	Central Burn Pits	7/1/2008	1217	12.67	32.81	Soft	OH01266
CBP	MW-008	Central Burn Pits	7/1/2008	1232	15.61	28.03	Hard	OH01266
CBP	MW-006	Central Burn Pits	7/1/2008	1240	7.70	25.38	Soft	OH01266
LL3	MW-241	Loadline 3	7/1/2008	1256	12.12	25.66	Hard	OH01266
LL3	MW-233	Loadline 3	7/1/2008	1259	26.28	32.86	Hard	OH01266
LL3	MW-232	Loadline 3	7/1/2008	1303	19.61	39.91	Hard	OH01266
LL3	MW-234	Loadline 3	7/1/2008	1307	10.77	22.74	Hard	OH01266
LL3	MW-238	Loadline 3	7/1/2008	1310	15.90	23.44	Hard	OH01266
LL3	MW-239	Loadline 3	7/1/2008	1312	25.26	37.20	Soft	OH01266
LL3	MW-240	Loadline 3	7/1/2008	1315	28.80	36.74	Medium	OH01266
LL3	MW-237	Loadline 3	7/1/2008	1320	15.98	25.62	Hard	OH01266
LL3	MW-236	Loadline 3	7/1/2008	1325	16.40	26.68	Hard	OH01266
LL3	MW-235	Loadline 3	7/1/2008	1330	18.30	23.05	Medium	OH01266
LL3	MW-243	Loadline 3	7/1/2008	1337	15.63	26.41	Hard	OH01266
LL3	MW-242	Loadline 3	7/1/2008	1340	16.16	22.61	Hard	OH01266
LL12	MW-182	Loadline 12	7/1/2008	1347	9.61	38.06	Hard	OH01266
LL12	MW-088	Loadline 12	7/1/2008	1352	6.23	27.32	Hard	OH01266

<sup>\*</sup>All measurements from top of casing

#### **COMPREHENSIVE WATER LEVEL MEASUREMENTS**

RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

**JULY 2008** 

	ll Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
LL12	MW-107	Loadline 12	7/1/2008	1356	8.83	33.77	Hard	OH01266
LL12	MW-128	Loadline 12	7/1/2008	1400	9.38	34.23	Hard	OH01266
LL12	MW-243	Loadline 12	7/1/2008	1403	8.42	25.47	Soft	OH01266
LL12	MW-154	Loadline 12	7/1/2008	1408	8.29	28.72	Hard	OH01266
LL12	MW-153	Loadline 12	7/1/2008	1411	5.87	24.87	Hard	OH01266
LL12	MW-113	Loadline 12	7/1/2008	1415	6.28	18.96	Soft	OH01266
LL12	MW-188	Loadline 12	7/1/2008	1422	5.63	22.26	Soft	OH01266
LL12	MW-187	Loadline 12	7/1/2008	1428	9.06	29.68	Hard	OH01266
LL12	MW-245	Loadline 12	7/1/2008	1441	7.16	30.19	Hard	OH01266
LL12	MW-185	Loadline 12	7/1/2008	1449	6.93	23.02	Hard	OH01266
LL12	MW-244	Loadline 12	7/1/2008	1453	9.70	30.97	Soft	OH01266
LL12	MW-242	Loadline 12	7/1/2008	1458	8.75	29.14	Soft	OH01266
LL12	MW-246	Loadline 12	7/1/2008	1510	15.85	35.07	Hard	OH01266
LL12	MW-184	Loadline 12	7/1/2008	1517	11.97	31.13	Hard	OH01266
LL12	MW-183	Loadline 12	7/1/2008	1524	11.73	36.41	Hard	OH01266
LL12	MW-186	Loadline 12	7/1/2008	1531	5.57	21.11	Hard	OH01266
LL12	MW-189	Loadline 12	7/1/2008	1536	5.08	19.85	Hard	OH01266
LL4	MW-197	Loadline 4	7/1/2008	1545	14.06	23.70	Hard	OH01266
LL4	MW-196	Loadline 4	7/1/2008	1549	12.85	21.89	Hard	OH01266
LL4	MW-195	Loadline 4	7/1/2008	1552	10.82	22.98	Hard	OH01266
LL4	MW-194	Loadline 4	7/1/2008	1555	8.78	23.91	Medium	OH01266
LL4	MW-199	Loadline 4	7/1/2008	1600	7.02	23.31	Medium	OH01266
LL4	MW-193	Loadline 4	7/1/2008	1604	7.32	24.40	Hard	OH01266
LL4	MW-198	Loadline 4	7/1/2008	1642	8.37	20.90	Medium	OH01266

<sup>\*</sup>All measurements from top of casing

### **COMPREHENSIVE WATER LEVEL MEASUREMENTS**

## RVAAP FACILITY-WIDE GROUNDWATER MONITORING PROGRAM

**JULY 2008** 

Wel	II Number	Location	Date	Time	Depth To Water*	Depth to Bottom	Description of bottom	Instrument/Serial Number
LL4	MW-200	Loadline 4	7/1/2008	1646	17.47	25.32	Hard	OH01266
DA2	MW-110	Demo Area 2	7/1/2008	1659 <sup>:</sup>	8.93	22.47	Hard	OH01266
DA2	MW-109	Demo Area 2	7/1/2008	1703	13.77	24.42	Medium	OH01266
DA2	MW-111	Demo Area 2	7/1/2008	1709	4.26	14.90	Hard	OH01266
DA2	MW-113	Demo Area 2	7/1/2008	1718	8.38	16.41	Hard	OH01266
DA2	MW-112	Demo Area 2	7/1/2008	1722	7.82	17.17	Hard	OH01266
DET	DET-3	Demo Area 2	7/1/2008	1726	9.72	11.09	Hard	OH01266
DET	DET-4	Demo Area 2	7/1/2008	1730	10.93	13.89	Hard	OH01266

<sup>\*</sup>All measurements from top of casing

# APPENDIX F

## WELL INSPECTION SHEETS

Ravenna Army Ammunition I WELL INSPECTION CHECK	
WELL INFORMATION:	1010
Well Number: Location/Functional Area:	BKG
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:)	-
	AZ PTOC (shape one only)
· · · · · · · · · · · · · · · · · · ·	BTOC (chose one only)
Well-Head Completion: INSPECTION ITEMS	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	0 0/ 6
Are the posts positioned to prevent collision damage to the well?	× / Leads pamin
Are any of the posts damaged or degraded?	
ts a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct/number?	
Describe labeling: Medallon, Sleve, on	well
Security:	
Does the well have a cap or lid?	NO COUN ON 100
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 22.42	
Thickness of sediment accumulation (reported depth-present mea	asurement): 7,42
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: TI-D Inspected by: Tolum	Miller

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	0110
Well Number: MW-1005 Location/Functional Area:	BK (-
Casing Type: Steel Stainless Steel XPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:Oft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	And the second s
Number of Guard posts at well:	//
Are the posts positioned to prevent collision damage to the well?	Squal outer cas
Are any of the posts damaged or degraded?	X Atinges rusting
Is a concrete pad installed?	a neal of pant
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the state of t
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct/number?	
Describe labeling: Medallow, 5 Jencil and	n well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	and the second s
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 12 2	1.07
Thickness of sediment accumulation (reported depth-present me	easurement): -0.07
Are there an obstructions in the well?	
Description of well bottom conditions (soft (hard, etc.):	
Inspection Date: 6-30-08 Inspected by: 00/6/10	Willer

10000

Ravenna Army Ammunition	•
WELL INSPECTION CHEC	KLIST
WELL INFORMATION:	
Well Number: \( \mathcal{MW} \cdot 006\) Location/Functional Area:	BKG
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 37.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	1997/1990 (1987) год 2017 год 2017 год 2018 год
Number of Guard posts at well:	_ /
Are the posts positioned to prevent collision damage to the well?	Square outter chains
Are any of the posts damaged or degraded?	Deeds minting
Is a concrete pad installed?	Dayl inbeds to see
Is the pad cracked or deteriorated? Frost Heaving? okaนุทอผ	X remived with caulk
Is steel protective casing installed?	Dod still some
Does the protective casing have a weep hole?	X X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Mada Nim in Cement	stever on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well? .	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $37.6$	
Thickness of sediment accumulation (reported depth-present me	easurement): <u>=0.09</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7-1-07 Inspected by: 16 Mu	c Miller

Ravenna Army Ammunition WELL INSPECTION CHECK	1
WELL INFORMATION:	
Well Number: www- 66 \$ Location/Functional Area:	BK (-
Casing Type: Steel Stainless Steel PVC	V
Screened/Open-Hole Well Type:	Monitor Interval Length: O ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 27.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	` '
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	Square outle Cash
Are any of the posts damaged or degraded?	De Dera rustali
Is a concrete pad installed?	needs paintin
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medal/IIM in Courte	stencit on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $31.5$	8
Thickness of sediment accumulation (reported depth-present me	easurement): 0.08
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
	and the second s
Inspection Date: 7-08 Inspected by: 50 M	n Miller

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: _Mw-010 Location/Functional Area: (3	166
Casing Type: Steel Stainless Steel X PVC	
Scheened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alove Ground	ttotates mortal zengan
Reported Construction Depth: 21.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	A TO THE RESIDENCE OF THE PROPERTY OF THE PROP
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	x rusting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the control of the control of the second
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Vaint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.1c	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?  Description of well bottom conditions (soft (hard) etc.): Hard	
Description of well bottom conditions (soft(hard) etc.): Hard	
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-012 Location/Functional Area: 5	KG
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 210 ft
Flush-mount/Above-ground Completion: Albove Ground	
Reported Construction Depth: <u>しんう</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<u> </u>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	K
Are any of the posts damaged or degraded?	rusting ninges
Is a concrete pad installed?	×
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	Scheduled for this
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	
Are there an obstructions in the well?	asurementy. 1977
Description of well bottom conditions (soft, hard, etc.):	
Decemped of well bottom conditions (sort, flaid, etc.).	

. . .

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MU-013 Location/Functional Area: B	K6
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 28 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	VEQ. 110 11/4 001414T11T0
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	тирия выполняющий потовы дойн поченным подом то на подом на почение выполняющей подом на почение выполняющей выполняющей выполнений высти выполнений выполнений выполнений выполнений выполнений выпол
Number of Guard posts at well:3	. <u></u>
Are the posts positioned to prevent collision damage to the well?	K
Are any of the posts damaged or degraded?	<u>rustina</u>
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	x unseen
Does vegetation around the well need clearing?	
Flush-mount completion:	A Proposition of the Contract
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	K .
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	8 - 20
Thickness of sediment accumulation (reported depth-present mea	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 7/1/zoog Inspected by: M	

Ravenna Army Ammunition WELL INSPECTION CHECK	
	ALIS1
WELL INFORMATION:	01/1
Well Number:	BKO
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 20 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth. 52.9 ft BGS or	BTOC (chose one only)
	BTOO (Chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	4 along
Are the posts positioned to prevent collision damage to the well?	Square outler Easing
Are any of the posts damaged or degraded?	Needs parkling of
Is a concrete pad installed?	Noted in Side of order
Is the pad cracked or deteriorated? Frost Heaving?	X Casim.
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	X
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallim in coment, Sta	reit an well
Security:	The second control of
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 35.1	$\frac{7}{\text{asurement}}$ $-0.27$
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
$l_{max}$	CONTROL CONTRO
Inspection Date: Inspected by: Ow	- Willer

Ravenna Army Ammunition WELL INSPECTION CHECK	The state of the s	
WELL INFORMATION:		
Well Number: MW-D16 Location/Functional Area:	BKG	
Casing Type: Steel Stainless Steel NPVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: O ft	
Flush-mount/Above-ground Completion		
Reported Construction Depth: 21.1 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:	//	
Are the posts positioned to prevent collision damage to the well?	Somere outley cally	2
Are any of the posts damaged or degraded?	X X Neels paint	7
Is a concrete pad installed?	X Ainges moting	1 -
Is the pad cracked or deteriorated? Frost Heaving?	Canciell under part	tu
Is steel protective casing installed?		brok
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	100 miles   100 mi	
is the well labeled with the correct number? / 1		
Describe labeling: Stewart on pext, Medal	lies is concrete	
Security:	у д <sub>а в</sub> есто и место на принципа на принц	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?	X	
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 21,35		
Thickness of sediment accumulation (reported depth-present me	asurement): 0.25	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Location/Functional Area:	BKG-
Ca <del>sing Type:</del> Steel Stainless Steel PVC	·
Screened/Open-Hole Well Type:	Monitor Interval Length:   O   ft
Flush-mount Above-ground Completion:	-
Reported Construction Depth: 3(e, 0) ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	The second secon
Number of Guard posts at well:	California de la California de
Are the posts positioned to prevent collision damage to the well?	XIII Sauge casing
Are any of the posts damaged or degraded?	X Neds and
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	У
Identification:	
is the well labeled with the correct number?	
Describe labeling: Mada//im 11 CUI Crete	istencil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $3b \cdot 15$	asurement): -0.05
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	o conservation de la conservation
Inspection Date: 630-87 Inspected by: Tohic	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:  Well Number: <u>MW- 08</u> Location/Functional Area:	BKG	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Le	enath: 10 ft
	_ Worker Micoryal La	
Flush-mount/Above-ground Completion		
Reported Construction Depth: 27.2 ft BGS or	BTOC (cho	se one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A	COMMENTS
Above-ground completion:	т терене на таките на принати на п	2014-2015-2015-2015-2015-2015-2015-2015-2015
Number of Guard posts at well:	M	Square author
Are any of the posts damaged or degraded?		neals mainting
Is a concrete pad installed?		Rustel insille
Is the pad cracked or deteriorated? Frost Heaving?		acter casing
Is steel protective casing installed?		0
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	ann an Air Talainn ag ann an ag ann an an Aireann an Aireann an Aireann an Aireann an Aireann an Aireann an Ai	y ny pytry ny na na na ny gayyan ang na na na ny na
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		,
Identification:	**************************************	
Is the well labeled with the correct number?		
Describe labeling: Medallibn in Cement, Ster	red on we	21/
Security:	nerska versker (). Demokratik se kolekt verska servenske kolekt se kolekt se se verska kolekt verske ket i 1 m	A COLON CONTROL CONTRO
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?	$\mathbf{x}$	
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: $27.10$		
Thickness of sediment accumulation (reported depth-present me	asurement):	1,50
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	4.4.0
Well Number: MW-019 Location/Functional Area:	BKG
Casing Type: Steel Stainless Steel YPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount Above-ground Completion:	
Reported Constituction Depth: 35.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	,
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	Dutter casing
Are any of the posts damaged or degraded?	X needs payer
Is a concrete pad installed?	Square casing
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	<u> </u>
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Stenci on well	
Security:	окустью и под от технорого, под от дост до том в дост до том в дост до том в дост дост дост дост дост дост дост дост
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	ــــــــــــــــــــــــــــــــــــــ
Measured depth of the well from measurement point: $35.7$	7 1
Thickness of sediment accumulation (reported depth-present me	easurement): -U.15
Are there an obstructions in the well?	
Description of well bottom conditions (soff, hard, etc.):	-
	ana ang ang ang ang ang ang ang ang ang
Inspection Date: 630-00 Inspected by: To hy	Miler

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW-070 Location/Functional Area:	BKG	
Casing Type: Steel Stainless Steel X PVC	10	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion: Above Coround		
Reported Construction Depth: 33,20 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	***************************************	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	ФОССИОТОВ ПР учасного предоставлений до 100 босу достуду присото постоя на применения на присоставления до 100 босу до 100 бо	
Number of Guard posts at well: 3		
Are the posts positioned to prevent collision damage to the well?	× tusted	
Are any of the posts damaged or degraded?	X Need Daint	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?	×	
Does the protective casing have a weep hole?	×	
Does vegetation around the well need clearing?	×	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint and Tag		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?	×	
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 33.31		
Thickness of sediment accumulation (reported depth-present mea	asurement): -0.11	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): Hard		
Inspection Date: 7/1/2008 Inspected by: M3		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
•	BK/-
Casing Type: Steel Stainless Steel	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 · 1 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 20 U ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Mean's painting water
Is a concrete pad installed?	well cay does not
Is the pad cracked or deteriorated? Frost Heaving?	does not need
Is steel protective casing installed?	y replacing, 11
Does the protective casing have a weep hole?	x Interior pusted in
Does vegetation around the well need clearing?	Square outer asi
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallion in coment, Ste	ncil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.67  Thickness of sediment accumulation (reported depth-present mea	asurament): -1.07
Are there an obstructions in the well?	asurement).
Description of well bottom conditions (soft, hard, etc.):	
	1
Inspection Date: 7-1-07 Inspected by: Tohi	2 MilRV

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MU 063 Location/Functional Area:	W
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alone Corond	
Reported Construction Depth: 30.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 34 00	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X peeling paint
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	× nard to find
Does vegetation around the well need clearing?	
Flush-mount completion:	uuusuuda siirikka kun kuusa kiikii vala liikuuda kasaa kasaa kasaa kasaa ka k
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	о материя в выполнения на на водинения общения в посторые в посторые в посторые в посторые в посторые в постор
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	1
Thickness of sediment accumulation (reported depth-present me	asurement):0.0
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
1. C /-	
Inspection Date: 6/30/7008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-D64 Location/Functional Area:	LL-1
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 6 ft
Flush-mount/Above-ground Completion: Alexe Grand	
Reported Construction Depth: 21. ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X peeling paint
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or tid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.01	
Thickness of sediment accumulation (reported depth-present mea	asurement): 0,0 9
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	•
Inspection Date: 6/30/2004 Inspected by: 1975	

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Mu-D65 Location/Functional Area: L	L-1
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alask Covarid	
Reported Construction Depth: 23.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:니	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X peeling paint
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	KITI TO THE REPORT OF THE REPO
Does the protective casing have a weep hole?	X I
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	K
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.0	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2008 Inspected by: MG	<del></del>

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Mw-06- Location/Functional Area:	
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
	Monte interval congut.
Flush-mount/Above-ground Completion:	
Reported Construction Depth: <u>a5.6</u> ft <u>BGS</u> or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	×
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	У
Does the protective casing have a weep hole?	×
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	×
Describe labeling: Paint + lag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	[X][_]
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, conoded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $25.6^{\circ}$	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): 25,60	1 HARD = 0.09
Inspection Date: 430/2008 Inspected by: MB	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-078 Location/Functional Area:	LLI
Casing Type: Steel Stainless Steel PVC	
	Manifestal Langell and the GE &
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.5 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 4, ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	ти вінення на при
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	K
Does vegetation around the well need clearing?	
Flush-mount completion:	en e
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	<b>X</b>
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	X
Does the well have a weatherproof lock?	<u> </u>
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 41.14	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.08
Are there an obstructions in the well?	,LIKILI
Description of well bottom conditions (soft, hard, etc.): 50+	T
Inspection Date: 6/30/2008 Inspected by: MS	iyening da 2 selektrisi in marak mar

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW - 079 Location/Functional Area:	LL1
Casing Type: Steel Stainless Steel NPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 914 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 42.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	K I
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	AND AND THE REAL PROPERTY OF THE PROPERTY OF T
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	<b>X</b>
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	<u> </u>
Measured depth of the well from measurement point: 41.4	
Thickness of sediment accumulation (reported depth-present mea	asurement): +, 18
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 6/30/2004 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Mルーのの Location/Functional Area:	LL-I
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.5 ft
Flush-mount/Above-ground Completion: Aloove (ground	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: <u> </u>	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	×
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	en de la composition de la martine de la martinistica de la composition della compos
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Print and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	<u> </u>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.2	
Thickness of sediment accumulation (reported depth-present mea	asurement):〜() ,ると
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	1
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW - 08 i Location/Functional Area:	LL I
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.5 ft
Flush-mount/Above-ground Completion: Algore Ground	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 41.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	Broo (chose the thiy)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	танды беттінді білік бақтан атық тақ ана дарар (ДР (СССССССССССССССССССССССССССССССССС
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	<u> </u>
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	**************************************
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 41.96	A A
Thickness of sediment accumulation (reported depth-present mea	asurement): σ·σφ
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.): Hard	
Para   Para	· · · · · · · · · · · · · · · · · · ·
Inspection Date: 6/30/2008 Inspected by: MB	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-082 Location/Functional Area:	LL
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length:ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 4,8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	And the state of t
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 91.4	
Thickness of sediment accumulation (reported depth-present mea	asurement): + 0.32
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Description of well bottom conditions (soft, hard, etc.): 50+4	
Inspection Date: 6/30/7008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-083 Location/Functional Area:	LL <u> </u>
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9,5 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 41.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 43 M	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X hard to see
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	<u> </u>
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 41.51	
Thickness of sediment accumulation (reported depth-present mea	asurement): + 0.19
Are there an obstructions in the well?	, LIKILI
Description of well bottom conditions (soft, hard, etc.):	·
Inspection Date: 1/20/2004 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: _ MW - ୦ୡ୳ Location/Functional Area:	<u>LL  </u>
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 9.6 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 39.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
0 1 -	
Describe labeling: (aint and lag Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 38.97	, <del>Lind</del> [
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2009 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number:	41
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ♀ ↓ ft
Flush-mount/Acove-ground Completion:	
	PTOC (shape and only)
	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	<u> </u>
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	<u> </u>
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	r
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint + lag	
Security:	
Does the well have a cap or lid?  Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 45.10	0
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	X
Description of well bottom conditions (soft, hard, etc.): Mard	
Inspection Date: 6-30-08 Inspected by: MB	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-059 Location/Functional Area:	L-Z
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: $98$ ft
Flush-mount/Above-ground Completion: Move Grand	
Reported Construction Depth: 21.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 닉	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	K
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Pain+	
Security:	and the same of th
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.64	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
1	
Inspection Date: <u>C/30/2008</u> Inspected by: MS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-060 Location/Functional Area:	LL-2
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 9.8 ft
Flush-mount/Above-ground Completion: Above (swand	
20.0	BTOC (chose one only)
	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	X peeling paint
Is a concrete pad installed?	× ' ' ' '
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Pain+	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	<del> </del>
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 17.22	<u></u>
Thickness of sediment accumulation (reported depth-present me	asurement): 3.68
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-26( Location/Functional Area: 1	1-2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alore Grand	
Reported Construction Depth: 21.9 ft BGS or	BTOC (chose one only)
	Broc (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	<u>x</u>
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	<u> </u>
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.55	asurement): -0.65
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?  Description of well bottom conditions (soft bard etc.): (1.1.)	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/7908 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-Z62 Location/Functional Area:	LL-Z
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 22.3 ft BGS or	BTOC (chose one only)
	Di Oo (Glose olic olly)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	K
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well tabeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	<b>X</b>
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	X
Measured depth of the well from measurement point: 22-75	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.45
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: <u>(/30/2004</u> Inspected by: MB	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-Z63 Location/Functional Area: L	_L-Z
Casing Type: Steel Stainless Steel PVC	
(Screened)Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: <u>23</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	区
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the state of t
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	WANTED THE PROPERTY OF THE PRO
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	×
Does the lock secure well?	$\times$
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.6	5
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.35
Are there an obstructions in the well?	X
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-Z6ヴ Location/Functional Area:	LL-2
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:   O ft
Flush-mount/Above-ground Completion: Aleave Coronal	
Reported Construction Depth: 217 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	Bree (choose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	CONTINUES AND
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	K C
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	K
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.47	7
Thickness of sediment accumulation (reported depth-present me	easurement): -0.77
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hwd	
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MU-765 Location/Functional Area:	LL-2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 2 ft
Flush-mount/Above-ground Completion: Above Ground	_ mainter this real garigum to
Reported Construction Depth: 23.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	E. S. G. (Gridge Grid Grilly)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:닉	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X hard to see
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	en meneral de de manuel de la m
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	×
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	<u> </u>
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: U/30/2008 Inspected by: MB	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-766 Location/Functional Area:	LL-Z
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: / O ft
Flush-mount/Above-ground Completion: Alove Ground	
Reported Construction Depth: 22.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<u> </u>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second of the second o
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	energy and the state of the sta
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	X
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22-96	2
Thickness of sediment accumulation (reported depth-present me	asurement):O.60
Are there an obstructions in the well?	У
Description of well bottom conditions (soft, hard, etc.): Medic	m
Inspection Date: <u>6/30/200</u> Inspected by: MS	n engangan pengangan
mopooted by.	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-267 Location/Functional Area:	LL-2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 32 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	K
Are any of the posts damaged or degraded?	X
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	<u>                                     </u>
Down-hole Condition:	,
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22-80	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): -0.80
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
	.
Inspection Date: 6/30/2009 Inspected by: M3	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-268 Location/Functional Area:	LL-2
Casing Type: Steel Stainless Steel V PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alare Grand	
Reported Construction Depth: 29.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	от техникован должныму удури постоя не неменения от ответствия от от от от ответствия от ответствия от
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	<u> </u>
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	X
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30,00	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: <u>L/30/260</u> Inspected by: <u>M3</u>	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Mw-ZC9 Location/Functional Area:	LL-Z
Casing Type: Steel Stainless Steel K PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 29.40 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	K
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	K
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30.34	
Thickness of sediment accumulation (reported depth-present me	asurement): <u>- 0,99</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Landing Debut I believe to the NAP	
Inspection Date: 6/30/2009 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW-270 Location/Functional Area:	LL-Z	
Casing Type: Steel Stainless Steel ▼ PVC		
(Screened)Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion: Alsove Ground		
Reported Construction Depth: 20.3 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	habites habites propagatives was managed the second of the control	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?	Mrushy hardto see botto	
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint and Tag		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 27.50		
Thickness of sediment accumulation (reported depth-present me	easurement): A, AO	
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 6/30/2008 Inspected by: MS		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-232 Location/Functional Area:	LL-3
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 38.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<del></del>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:닉	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and lag	
Security:	<u> </u>
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 31.91	
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 7/1/2008 Inspected by: M3	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-233 Location/Functional Area:	i 1 - 3
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion: Aleve Comma	
Reported Construction Depth: 32.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:니	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	на инстительной от том в сентення пинаментичной инстительной инстительной инстительной инстительной общеной общ Постительной
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	Q —
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 328	6
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/7005 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-234 Location/Functional Area:	LL-3
Casing Type: Steel Stainless Steel X PVC	
	Monitor Interval Length: 「〇 ft
Screened Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion: Als ove Grand	
Reported Construction Depth: 22.10 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	м от от выполнять до до до продолжения в применення в пр
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	a di paramenta di mandala di manda
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	X
Does the lock secure well?	X D
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.7	
Thickness of sediment accumulation (reported depth-present me	asurement): <u>- 0.64</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 7/1/2008 Inspected by: MB	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-235 Location/Functional Area:	LL-3
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Algare Ground	
Reported Construction Depth: 22.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	<u> </u>
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	en <mark>antitude de la composition della composition</mark>
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	TRANSPORTER AND
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	X
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	-
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
1 AR	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-236 Location/Functional Area:	11-7
	<u> </u>
Casing Type: Steel Stainless Steel X PVC	
&creened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 26,2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second state of the second
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	又
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 26.6	
Thickness of sediment accumulation (reported depth-present me	asurement): <u>- 0.48</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: M)	AND THE PROPERTY OF THE PROPER
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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-237 Location/Functional Area:	LL-3
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: l る ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 34.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	VEO NO NIA COMMENTO
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	eranderandra deut de plante de propriet est propriet de la companya del la companya de  la companya de  l
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, corroded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.6	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):  Had	
Inspection Date: 1/1/208 Inspected by: MS	завазавитититите били другунун - другин комунун ууну уло ман алаг ман ол моголог арал хайна жаналаг алаг алаг ал моголог ал жог бас ал сой обы

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-Z38 Location/Functional Area:	LL-3
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 22.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	ennederin til 1804 i 18
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	<u> </u>
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	X
Measured depth of the well from measurement point: 23. Y	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.54
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-239 Location/Functional Area: 1	LL-3
Casing Type: Steel Stainless Steel X PVC	
(Screened/Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mount/Above-ground Completion: Above Grand	
	BTOC (chose one only)
Well-Head Completion: INSPECTION ITEMS	YES NO N/A COMMENTS
Above-ground completion:	consistence on the constraint of the constrain
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	у
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Trint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 37.2	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):  504	
Inspection Date: 7/1/2004 Inspected by: M3	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW-240 Location/Functional Area:	1-63	
Casing Type: Steel Stainless Steel PVC	10	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion: Above Grand		
Reported Construction Depth: 36.50 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	үүний мененин жана жана жана жана жана жана жана ж	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?	×	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?	又	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint and Tag		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:	r	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?  Measured don'th of the well from measurement point:		
Measured depth of the well from measurement point: 36.7  Thickness of sediment accumulation (reported depth-present me	resurrement) - 0 24	
Are there an obstructions in the well?	doubling.	
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 7/1/2006 Inspected by: MS		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: Mw-zyı Location/Functional Area: L	L-3	
Casing Type: Steel Stainless Steel V PVC		
%creened/0pen-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion: Alask (Sround		
Reported Construction Depth: 25,/ ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	Droc (chose one only)	
	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?	<u> </u>	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?	X	
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	×	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint and Tag		
Security:		
Does the well have a cap or lid?	×	
Does the well have a weatherproof lock?	×	
Does the lock secure well?	<b>X</b>	
Does the inner casing have a water-tight cap?	<u> </u>	
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)	<u> </u>	
Is a measurement point marked a the top of well casing?	X	
Measured depth of the well from measurement point: 25.66		
Thickness of sediment accumulation (reported depth-present meas	surement): <u>-0.56</u>	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): Hwa		
Inspection Date: 71/2008 Inspected by: M3		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-247 Location/Functional Area:	LL-3
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion: House Gran	<u></u>
Reported Construction Depth: 21,90 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	MANUAL STATE OF THE STATE OF TH
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Ing	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well easing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 72.6	
Measured depth of the well from measurement point: 22.6 Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	asurementy.
Description of well bottom conditions (soft, hard, etc.):  Hard	
Inspection Date: 71:/2009 Inspected by: M3	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-243 Location/Functional Area:	LL-3
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alane Grand	
Reported Construction Depth: <u>25.8</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	K
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	and the state of t
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Raint and Tag	
Security:	
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	У
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 26.41	
Thickness of sediment accumulation (reported depth-present me	asurement):O. Lo
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Medi	Vin
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-193 Location/Functional Area: L	L-4
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
7-7	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	турдан үз РР білінді білінді білі Жійй білінді білі мійдені өті менден төмін тамана айын төмін төмін төмін төмі
Number of Guard posts at well:	•
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	THE CONTRACT OF THE CONTRACT O
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	ggggggest Metrodox on the control of
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	$\times$
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.4c	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): -0.90
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: M以-194 Location/Functional Area:	LL-4	
Casing Type: Steel Stainless Steel V PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion: Above Ground	<u> </u>	
Reported Construction Depth: 23.4 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	(1997) - Printer and the second control of t	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint and tag		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 23.91		
Thickness of sediment accumulation (reported depth-present me	easurement): <u>~ 6.5</u>	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):	0m	
Inspection Date: 7/1/2009 Inspected by: MS		

Ravenna Army Ammunition	
WELL INSPECTION CHECK	KLIST
WELL INFORMATION:	
Well Number: MU - 195 Location/Functional Area:	-L-Y
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 22.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	2,00 (and00 and ana),
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X one rusted
Is a concrete pad installed?	K
Is the pad cracked or deteriorated? Frost Heaving?	
-	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	and the state of t
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint + Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	F
Down-hole Condition:	กลางที่สามารถ กระการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่ เกาะการที่
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	K I
Measured depth of the well from measurement point: 22-9	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/7,00% Inspected by: M3	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-196 Location/Functional Area: L	-L-4
Casing Type: Steel Stainless Steel K PVC	
Sgreened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 21.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Ino bent, rusted
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	aktivisettiinistätavatettätiitiinistettiinistä tiitäisitettiinistä keisikii kuntuudussa. Tasaunussi kutta kuntuudussa kuntuussa
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	×
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	×
Is a measurement point marked a the top of well casing?	K
Measured depth of the well from measurement point: 21.89	<del></del>
Thickness of sediment accumulation (reported depth-present me	asurement): -0.49
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	White left is a second of the
Inspection Date: 7/1/2008 Inspected by: M3	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-197 Location/Functional Area: L	L-4
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alare Corand	
Reported Construction Depth: 22.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	X are pole bent
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X not seen
Does vegetation around the well need clearing?	
Flush-mount completion:	менен и при при при при при при при при при п
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Pain L	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23-76	7
Thickness of sediment accumulation (reported depth-present mea	•
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
In a series Date: 71/1/2002	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-198 Location/Functional Area: L	1-4
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ( ft
Flush-mount/Above-ground Completion: Alagre Grand	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 22.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	2.00 (0.1000 0.10 0.1.,)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 20.9c	
Thickness of sediment accumulation (reported depth-present mea	asurement): 1,40
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	Com to soft
Inspection Date: 7/1/2008 Inspected by: 1	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-199 Location/Functional Area: L	1-4
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Aloeve Ground	<u> </u>
	BTOC (chose one only)
INSPECTION ITEMS	Broo (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	×
Does the protective casing have a weep hole?	K
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	Experiment State of S
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	又
Measured depth of the well from measurement point: 23.31	
Thickness of sediment accumulation (reported depth-present mea	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): We Mea	dium
Inspection Date: 7/1/700% Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-Zoo Location/Functional Area: (	
Casing Type: Steel Stainless Steel PVC	·
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 25.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	28 (29) (29) (20) (20) (20) (20) (20) (20) (20) (20
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	Management and the second seco
Does the well have a cap or lid?	<b>Y</b>
Does the well have a weatherproof lock?	
Does the lock secure well?	×
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 25.3	
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):  Hard	
Inspection Date: 7/1/2007 Inspected by: M3	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: www.so/ Location/Functional Area: 45	
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion/	
Reported Construction Depth: 26.9 ft BGS or BTOC (chose one only)	
Well-Head Completion: INSPECTION ITEMS  YES NO N/A COMMENTS	
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallin on Cover, Stenci an Well	
Security:  Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27,77	
Thickness of sediment accumulation (reported depth-present measurement): -0,52	
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard), etc.):	
Inspection Date: 7-1-07 Inspected by: 15 m Millar	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	_	
Well Number: MW 002 Location/Functional Area:	45	
Casing Type: Steel Stainless Steel		
Sorgened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion		
Reported Construction Depth: a7.9 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	1000000000000000000000000000000000000	
Number of Guard posts at well:	1 N = 4	
Are the posts positioned to prevent collision damage to the well?	X	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	an ang sa taon da da mana kanananan an a	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Modal / WA am cover, S	territ on well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?	$\square$	
Down-hole Condition:	and the second s	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 27,64		
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>+0.24</u>	
Are there an obstructions in the well?		
Description of well bottom conditions (soft) hard, etc.):		
	10116	
Inspection Date: 100 Inspected by: 1000	Miller	

Ravenna Army Ammunition	
WELL INSPECTION CHECK	KLIST
WELL INFORMATION:	
Well Number: MIV-003 Location/Functional Area:	41.5
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24,0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Neels Dainem
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	atu meningan dan meninggan meninggan dan meninggan dan meninggan dan meninggan dan meninggan dan meninggan dan
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medal www on cover, S	telli on well
Security:	
Does the well have a cap or lid?	X Dek cover
Does the well have a weatherproof lock?	
Does the lock secure well?	<u>χ</u>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	P
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2915	
Thickness of sediment accumulation (reported depth-present me	asurement): ~0.15
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	- L- 40-400 B 40-400 B
Inspection Date 7-1/08	MA West
Inspection Date: 100 Inspected by: 100 Impected by: 100 I	h h rithe A

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
/	115
Well Number: Location/Functional Area:	<i>L</i> C3
Casing Type: Steel Stainless Steel PVC	
Gereened/Open-Hole Well Type:	Monitor Interval Length: O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24,9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	0/ \
Are the posts positioned to prevent collision damage to the well?	Manual needs ogintu
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	- And Andrew Marked Michigan Control of Cont
Is the well labeled with the correct number?	
Describe labeling: Medallim on cover,	stencil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	<u> </u>
Down-hole Condition:	, 
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	<u> </u>
Measured depth of the well from measurement point: 25,5	7 701-0
Thickness of sediment accumulation (reported depth-present me	asurement): 0.68
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7-1-08 Inspected by: To NI	1. Milby

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Location/Functional Area:	45
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 299 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	The second of The College Control Control College Coll
Number of Guard posts at well:	0 0' 0' -
Are the posts positioned to prevent collision damage to the well?	Jacks 1911
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	, [74] [
Describe labeling: NO world I'm , Stency	on nell
Security:	The second of th
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 29,80	
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.01
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Description of well bottom conditions (soft, flator etc.).	
	144 1101
Inspection Date: 7-1-08 Inspected by: 1)hm	miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW - 006 Location/Functional Area:	115
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	_ Monitor Interval Length:/O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 26.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	<u> </u>
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: What from and St	tencti on well
Security:	
Does the well have a cap or lid?	X Lead 5 lock
Does the well have a weatherproof lock?	Cover Cover
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	<u> </u>
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27. 2	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.37
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	one to the second secon
Inspection Date: 1-109 Inspected by: 10/10/	Willer

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: WW-67 1 Location/Functional Area:	46
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: [O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	×
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	To the second se
Does vegetation around the well need clearing?	
Flush-mount completion:	менен менен менен бартура и менен бартан администрация объекто се под высок на менен менен администрация объект на м Стану при
Is the traffic cover securely bolted to the flush-mount box?	TX I
Does the well have a flush-mount box?	X
Is the traffic cover cracked or broken?	T T T T T T T T T T T T T T T T T T T
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct yumber?	
Describe labeling: No medallin, stencil or	i rweit
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 17.78	
Thickness of sediment accumulation (reported depth-present mea	surement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, far), etc.):	
	ana ang mga mga mga ga g
Inspection Date: 1-1000 Inspected by: John	VYI./lev

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW-602 Location/Functional Area: 225		
Casing Type: Steel Stainless Steel VC		
Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft		
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 22.5 ft BGS or BTOC (chose one only)		
INSPECTION ITEMS		
Well-Head Completion: YES NO N/A COMMENTS		
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: No Mellallon Stene on Well		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 21/15  Thickness of sediment accumulation (reported depth-present measurement): -2./5		
Are there an obstructions in the well?  Description of well bottom conditions (soft (har)), etc.):		
Description of well bottom conditions (sort, many, etc.).		
The Third Million		
Inspection Date: 7-1-0 Y Inspected by: 16hv MINER		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	,	
Well Number: <u>MW 003</u> Location/Functional Area:	446	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: as 9 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?	Theels pank,	
Are any of the posts damaged or degraded?	X Lock lis MISSIM	
Is a concrete pad installed?	X a lock covery	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	TO THE TOTAL THE TOTAL AND ADMITS AND ADMITS AND ADMITS AND ADMITS AND ADMITS ADMITS AND ADMITS AND ADMITS ADMITS AND ADMITS ADM	
Is the well labeled with the correct pumber?		
Describe labeling: No Medallion, Stever 0	in well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?	X	
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing? /		
Measured depth of the well from measurement point:	25.91	
Thickness of sediment accumulation (reported depth-present measurement)	surement): -90 - 0.0	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard) etc.):		
Inspection Date: 7-1-08 Inspected by: 10 mm	YVI:1  ev	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	- 1
Well Number: <u>vww- 004</u> Location/Functional Area: <u>L</u>	16
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: /O ft
Flush-mount/Above-ground Completion:	-
	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X I I I I I I I I I I I I I I I I I I I
Is a concrete pad installed?	you need's parter
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? // 1	
Describe labeling: No molalion Ster	cit on well
Security:	and the second s
Does the well have a cap or lid?	TOOK COVEY
Does the well have a weatherproof lock?	X IS MISSIMS
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.70	
Thickness of sediment accumulation (reported depth-present me	easurement): TO-40
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7/08 Inspected by: 53/m	. Millor
moreouth Date. V VO moreouth by. JOM	nyiijjev

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: VWW~005 Location/Functional Area:	216
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above ground Completion:	
Reported Construction Depth: 23.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	) (A PARTIE OF THE PARTIE OF T
Number of Guard posts at well:	. N -L
Are the posts positioned to prevent collision damage to the well?	Meel's part
Are any of the posts damaged or degraded?	Y T
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	a mana muun mana masa mana mana mana mana mana man
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct namber?	
Describe labeling: No Medal Ilm , STONCI I	on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	ــــــــــــــــــــــــــــــــــــــ
Measured depth of the well from measurement point: 22, 4	
Thickness of sediment accumulation (reported depth-present me	asurement): +0.04
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7 - 1-08 Inspected by: 000	VILILON

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	126
Well Number: Location/Functional Area:	LLU
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: \\ \bigcapD \\ ft  BGS \\ or \\	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	on management 1 - 77 (1) (1) of the COS (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	Replaced gasker
Are any of the posts damaged or degraded?	N needs painting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Stencil on well, no	medallion
Security:	
Does the well have a cap or lid?	March's new
Does the well have a weatherproof lock?	DI Jack
Does the lock secure well?	
Does the inner casing have a water-tight cap?	[X] []
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 1195	
Thickness of sediment accumulation (reported depth-present me	easurement): 0.96
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
0100	Ma Marc
Inspection Date: 1-08 Inspected by: 10000	C YMMEN

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Ravenna Army Ammunition WELL INSPECTION CHECK	1
WELL INFORMATION:	
Well Number: MW-007 Location/Functional Area:	446
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 19,5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Is the traffic cover cracked or broken?  Is the concrete apron cracked or deteriorated? Frost Heaving?  Identification:	Needs gard Needs gard Needs gard Needs gard Needs gard Needs gard Needs gard Needs gard Needs gard Needs y
Is the well labeled with the correct number?  Describe labeling: No Media 100 STENCI	
Security:	Up VOCUI
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X Peels now lock
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $19.5$	₹₩₩₩₩
Thickness of sediment accumulation (reported depth-present me	easurement): -0.03
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7-1-88 Inspected by: The	miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	•
Well Number: Location/Functional Area:	117
Casing Type: Steel Stainless Steel X PVC	· · · · · · · · · · · · · · · · · · ·
Screened/Open-Hole Well Type:	Monitor Interval Length: 6 ft
Flush-mount(Above-ground Completion:	
Reported Construction Depth: 32.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	, , , , , , , , , , , , , , , , , , ,
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	X DOSTS need
Are any of the posts damaged or degraded?	V Dunting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: MEDALLON + Stancel	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	<u> </u>
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.2	
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 10-30.08 Inspected by: John N	Miler

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>หมางอิง</u> Location/Functional Area:	L17
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	THE STORY OF THE MALE AND ADDRESS AS A STORY
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the porrect number?	
Describe labeling: Maly/lion on cap, Ste	ncil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21,3	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): +0,43
Are there an obstructions in the well?	
Description of well bottom conditions (soft, nard, etc.):	
	aanaanaanaanaanaan jaraa araa firmaana muunimma miraanaanaanaana maanaanaanaanaanaa a
Inspection Date: 6-30-07 Inspected by: John	1111 lev

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	) , 1
Well Number: WN-003 Location/Functional Area:	441
Casing Type: Steel Stainless Steel PVC	1-
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 33.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Peeds part
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and of the control of
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	, [7]
Describe labeling: Medallion on Cab, St	eneil on well
Security:	communication and an additional and an additional and additional additional additional and additional additiona
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.7	<u> </u>
Thickness of sediment accumulation (reported depth-present me	asurement): <u>- 0 · 11</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	and the same of th
Inspection Date: 6-30-89 Inspected by: John	MITHEL

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	, _
Well Number: MW-004 Location/Functional Area:	47
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 32.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Weelal Iun on Cap,	Hener on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.37	¥
Thickness of sediment accumulation (reported depth-present me	asurement): <u>+0.12</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard) etc.):	
	A
Inspection Date: 6-30-08 Inspected by: 50 610	1 MILLEN

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	7
Well Number:	
Casing Type: Steel Stainless Steel	
Screened@pen-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-meunt/Above-ground Completion:	
Reported Construction Depth: 30.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<b>.</b>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X Pleeds park
Are any of the posts damaged or degraded?	<u> </u>
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	об в оборожения в при в пр В при в
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Meda/IVV on Cap, Stence	il on past
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $30.3$	03
Thickness of sediment accumulation (reported depth-present me	asurement): +0.07
Are there an obstructions in the well?	
Description of well bottom conditions (soft, rard etc.):	
Inspection Date: 6-30-07 Inspected by: 55km	aaaaanaa qay firoonoo qoofi oo oo oo aanaan aa
inspection date. O O O O inspected by. O O IVIL	7 V 1/1/ 10 V

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	. —7
Well Number: MW-006 Location/Functional Area:	447
Casing Type: Steel Stainless Steel PVC	,
Sercened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mour(/Above-ground Completion)	
Reported Construction Depth: 30.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	т чет на при
Number of Guard posts at well:3	<i>a</i>
Are the posts positioned to prevent collision damage to the well?	Deeds print
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallin on Cap, Sto	Well on suell
Security:	VICI OIC WC II
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30,40	
Thickness of sediment accumulation (reported depth-present me	- 0 0/2
Are there an obstructions in the well?	
Description of well bottom conditions (soft,(nar), etc.):	
Inspection Date: 6-30-08 Inspected by: John	Milfer

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Location/Functional Area:	48
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	·
Reported Construction Depth: 26.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	уусууну ууда байын төлөө көн көн көн көн көн көн көн көн көн к
Number of Guard posts at well:	•
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	A peds nains
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Meda/lion on cap St	encil on well
Security:	and an artist and the commence and the contract and the c
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	9 90
Thickness of sediment accumulation (reported depth-present mea	asurement): -0,89
Are there an obstructions in the well?	
Description of well bottom conditions (sof), hard, etc.):	
	area a construir a construir a construir de construir a construir
Inspection Date: 7-1-08 Inspected by: 15 mm	Miller

Ravenna Army Ammunition F WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: 007 Location/Functional Area:	LL8
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 32.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	P Neal'S Danz
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	an ann ann an an t-an t-an t-an t-an an an an t-an an t-an an a
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the orrect humber?	
Describe labeling: Medallivy on Car, Sta	encil on urll
Security:	and the control of th
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.75	<u></u>
Thickness of sediment accumulation (reported depth-present mea	surement): +0.00
Are there an obstructions in the well?	
Description of well bottom conditions (soft,)hard, etc.):	
	en e
Inspection Date: 7-1-68 Inspected by: John	Milter

CONTRACTOR OF THE PROPERTY.

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST
WELL INFORMATION:
Well Number:
Casing Type: Steel Stainless Steel VPVC
Screened/Open-Hole Well Type: Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion
Reported Construction Depth: 23.3 ft BGS or BTOC (chose one only)
INSPECTION ITEMS
Well-Head Completion: YES NO N/A COMMENTS
Above-ground completion:
Number of Guard posts at well:
Are the posts positioned to prevent collision damage to the well?
Are any of the posts damaged or degraded?
Is a concrete pad installed?
Is the pad cracked or deteriorated? Frost Heaving?
Is steel protective casing installed?
Does the protective casing have a weep hole?
Does vegetation around the well need clearing?
Flush-mount completion:
Is the traffic cover securely bolted to the flush-mount box?
Does the well have a flush-mount box?
Is the traffic cover cracked or broken?
Is the concrete apron cracked or deteriorated? Frost Heaving?
Identification:
Is the well labeled with the gorregt number?
Describe labeling: Weda//www. ON CAD, Stoncil on well
Security:
Does the well have a cap or lid?
Does the well have a weatherproof lock?
Does the lock secure well?
Does the inner casing have a water-tight cap?
Down-hole Condition:
Is the well casing bent, corroded, or broken (at the surface?)
Is the well casing loose, (at the surface?)
Is a measurement point marked a the top of well casing?
Measured depth of the well from measurement point: 2/3, 2
Thickness of sediment accumulation (reported depth-present measurement): +0.10
Are there an obstructions in the well?
Description of well bottom conditions (soft, nard, etc.):
Inspection Date: 7-1-87 Inspected by: John Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: _ www-004 Location/Functional Area:	118
	Monitor Interval Length: (5 ft
	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion.	
Reported Construction Depth: 33 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X Pleas Dam
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	<u> </u>
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Mellallon on Cap, Ste Security:	uncil on well
Does the well have a cap or lid?	700
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.77	
Thickness of sediment accumulation (reported depth-present measu	urement): +0.13
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<u>~</u>
	1011
Inspection Date: 7-1-08 Inspected by: 10/11	VVIII PEY

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 1 w 005 Location/Functional Area:	L(8
Casing Type: Steel Stainless Steel APVC	
Sereened/Open-Hole Well Type:	Monitor Interval Length: (C) ft
	_ Worldon Microsi Ecingui 1
Flush-mount/Above-ground Completion:	
Reported Construction Depth: ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	And a finite of the second sec
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	* resented
Is a concrete pad installed?	Detrycen casin
Is the pad cracked or deteriorated? Frost Heaving?	and pall out
Is steel protective casing installed?	X Dotte posts
Does the protective casing have a weep hole?	Described par
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Weda/low on cap, st	Tenal on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?  Does the lock secure well?	
Does the lock secure well?  Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.	
Thickness of sediment accumulation (reported depth-present me	easurement): -0.14
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	- Ann for formal and the second secon
Inspection Date: 7-1-08 Inspected by: 10 mg	- VKI, Her

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
	NEIO!
WELL INFORMATION:	11 8
Well Number: <u>WW-006</u> Location/Functional Area:	LL 8
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 26.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	n/ - 6
Are the posts positioned to prevent collision damage to the well?	Meds pant
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	De la
Is the pad cracked or deteriorated? Frost Heaving?	Pad cracked through,
Is steel protective casing installed?	Y needs replacement
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the gorrest number?	
Describe labeling: Medallim on Cap, St	and on well
Security:	A CONTRACT OF THE PROPERTY OF
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	<u> </u>
Thickness of sediment accumulation (reported depth-present me	easurement): -0,48
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7-1-08 Inspected by: 00 km	~ Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-00 Location/Functional Area:	219
Casing Type: Steel Stainless Steel	, -
Screened Open-Hole Well Type:	Monitor Interval Length: / ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 23.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	0 0/ 0 4
Are the posts positioned to prevent collision damage to the well?	DI Leed'S Vanding
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?  Describe labeling: No made on Steney on	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	and the state of t
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23. 40	
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Land District That	MacVac
Inspection Date: 1998 Inspected by: 10h p	2 VIVIVEY

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: \( \mu \cdot 002 \) Location/Functional Area:	419
Casing Type: Steel Stainless Steel	
Creened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	- <del> </del>
Reported Construction Depth: 22.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	- 1 0' a t
Are the posts positioned to prevent collision damage to the well?	X Meeks Namur
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	X
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:////////////////////////////////////	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22,1	polyromanth: -ACO
Thickness of sediment accumulation (reported depth-present mean Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7~1-07 Inspected by: 10/m	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
	1.29	
Casing Type: Steel Stainless Steel	h-	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth:	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:	1 10	
Are the posts positioned to prevent collision damage to the well?	Z Z Zase Rosts hower n	
Are any of the posts damaged or degraded?	x aut of the ground	
Is a concrete pad installed?	X Need's Dant	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?/		
Describe labeling: //o meda///on STene	es on well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?  Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 24.32		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, ford) etc.):		
Inspection Date: 7-1408 Inspected by: 13 km	YMINA	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW 004 Location/Functional Area: 449		
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type: Monitor Interval Length: ft		
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 34.9 ft BGS or BTOC (chose one only)		
INSPECTION ITEMS		
Well-Head Completion: YES NO N/A COMMENTS		
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number? / /,		
Describe labeling: \( \frac{100}{100} \) \( \text{Meda//1001} \) \( \text{Stevoil an Well} \)		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 50, 13  Thickness of sediment accumulation (reported depth-present measurement): -0,93		
The latest of the latest transfer of the late		
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 7-1-89 Inspected by: TOM Miller		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	·c
Well Number: 1005 Location/Functional Area:	24
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 6 ft
Flush-mount/Above ground Completion	
Reported Construction Depth: <u>83.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	, was a manufung with this case and a manufung company of the state of
Number of Guard posts at well:	- $ N$ $N$
Are the posts positioned to prevent collision damage to the well?	X   lelds / g mtin
Are any of the posts damaged or degraded?	× Jan garage
Is a concrete pad installed?	X logse concrete
Is the pad cracked or deteriorated? Frost Heaving?	deteriorating
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: 116 Medallim, 5 Medallim	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?  Does the lock secure well?	
*	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confoded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.6	6
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7-1-08 Inspected by: 36h	n Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	, (A)
Well Number: Location/Functional Area:	44
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 28,9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?  Is the traffic cover cracked or broken?  Is the concrete apron cracked or deteriorated? Frost Heaving?	Noeds painting
Is the well labeled with the correct number?  Describe labeling: 10 Medal ion, Stoncil  Security:	Sin well
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $\cancel{10.17}$	
Thickness of sediment accumulation (reported depth-present mea	asurement):0,08
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
2 3 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Inspection Date: 7-108 Inspected by: 1047	1 Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>////////////////////////////////////</u>	229
Casing Type: Steel Stainless Steel	•
&creened/Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 18-5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	· · · · · · · · · · · · · · · · · · ·
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: N.D. Medallin, Steve	on well
Security:	
Does the well have a cap or lid?	X DO WCK
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18,40	
Thickness of sediment accumulation (reported depth-present mea	asurement): + 0.23
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	A STATE OF THE STA
Inspection Date: 10000 Inspected by: 10000	Willer

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 100 Location/Functional Area:	LL 10
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mount/Above-ground Completion:	·
Reported Construction Depth: 29,8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?	Meck's pariting
Is a concrete pad installed? Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?  Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?  Describe labeling:	Sencil on well
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	<b>对一一</b>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 29.7	
Thickness of sediment accumulation (reported depth-present me	asurement): +0.04
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 7-)-6 * Inspected by: 15 h	n. Miller

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
_	LLID
Well Number: Location/Functional Area:	<u> </u>
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 6 ft
Flush-mount Above-ground Completion:	<u> </u>
Reported Construction Depth: 29.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	$\rho' \sim 1$
Are the posts positioned to prevent collision damage to the well?	Meeks parktin
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct nymber?	
Describe labeling: Westal/Ibm on Cover,	stereil an well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	السالسل
Measured depth of the well from measurement point:	asurement): -0.2-5
Thickness of sediment accumulation (reported depth-present mea	asurement): - U 3
Are there an obstructions in the well?  Description of well bottom conditions (soft, fiard, etc.):	
2 3 3 3 4 3 1 3 4 3 1 3 4 3 1 3 1 3 1 3 1	
Inspection Date: 7-1-08 Inspected by: To have	Milder
moreoted by. 10 /17	11410

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Location/Functional Area:	LLID
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length:/& ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	n 1' +
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Melallim on COVER, &	tevel on well
Security:	од домуни в той то то по
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2 Y 7	7 <u>0</u>
Thickness of sediment accumulation (reported depth-present me	easurement): +0,20
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	mananan mangan nganengan nganen nganen kalanan samanan manan na manan manan na manan na manan na manan na mana
Inspection Date: 7-1-03 Inspected by: 10/11	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
	(LIST
WELL INFORMATION:	
Well Number: WW -664 Location/Functional Area:	<u> </u>
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 33.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	00 0
Are the posts positioned to prevent collision damage to the well?	Pack is cracked of
Are any of the posts damaged or degraded?	X need need
Is a concrete pad installed?	X needs paint caulking
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the sprrect/number?	
Describe labeling: Medalling out Cover,	Stoucil on well
Security:	The second of the second secon
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.69	
Thickness of sediment accumulation (reported depth-present mea	asurement): + 0 · 1 l
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
	Marten
Inspection Date: 7-/08 Inspected by: 18 Mu	1011100

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: WW 203 Location/Functional Area:	1110
	240
Casing Type: Steel Stainless Steel	/_
&creened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: $29.3$ ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	10 No of
Are the posts positioned to prevent collision damage to the well?	Means painting
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?  Identification:	
Is the well labeled with the correct number?	
Describe labeling: Were libra on COVER S'	tencil on well
Security:	The state of the s
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	اـــــــــــــــــــــــــــــــــــــ
Measured depth of the well from measurement point: 29,39	n na
Thickness of sediment accumulation (reported depth-present mea	asurement): -0,09
Are there an obstructions in the well?  Description of well bottom conditions (soft hard, etc.):	
Description of well pottom conditions (soft haid, etc.).	<u> </u>
Inspection Date: 2/08 Inspected by: 50 W	- Milker

WELL INSPECTION CHECK	CLIOT
WELL INFORMATION:	.11
Well Number: www 606 Location/Functional Area:	240
Casing Type: Steel Stainless Steel PVC	10
Screened Open-Hole Well Type:	Monitor Interval Length:/.C
Flush-mount/Above-ground Completion:	
Reported Construction Depth:ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	· 0/2
Are the posts positioned to prevent collision damage to the well?	M Weeks N
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	en e
is the well labeled with the correct number?	
Describe labeling: Medallion ON COUN, S	rencil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 26.6	7
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>-0.57</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, (har)d, etc.):	,

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 155 WW O Location/Functional Area:	LLUI
Casing Type: Steel Stainless Steel X PVC	4.5
creened/Open-Hole Well Type:	_ Monitor Interval Length:ft
Flush-mount Above-ground Completion	
Reported Construction Depth: 24.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	V T
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: No medallin, Stencil on	well
Security:	оненно <mark>чно вышения в нешения институтенностичности</mark>
Does the well have a cap or lid?	100 TO
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.65	5
Thickness of sediment accumulation (reported depth-present mea	asurement): + 2,45
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	X
Inspection Date: 63/1-08 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION; MU - 002		
Well Number: Location/Functional Area:	221/	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length:ft	
Flush-mount/kbove-ground Completion:		
Reported Construction Depth: W.O ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	•	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X 1/eds paint	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?	<b>*</b> _ X	
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	F	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Stency 6n well		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 16.59 Thickness of sediment accumulation (reported depth-present me	asurement): -0,59	
Are there an obstructions in the well?	asurement, 013	
Description of well bottom conditions (soft hard, etc.):		
Inspection Date: 630-08 Inspected by: Token	Miller	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: WW-003 Location/Functional Area:	4211
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mountatione ground completion:) Flush In a	ant
Reported Construction Depth: 15.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	######################################
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Stencil on POSV	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	<u> </u>
Measured depth of the well from measurement point: 1612	20.32 asurement): -0.32
Thickness of sediment accumulation (reported depth-present me	asurement): U. / ~
Are there an obstructions in the well?  Description of well bottom conditions (soft hard, etc.):	
2000 phon of well bottom conditions (soil, hard, etc.).	
Inspection Date: 6-30.08 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	/
Well Number: Location/Functional Area:	441
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	V=0 N0 N/4 001N5N50
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X I need's new a
Are any of the posts damaged or degraded?	X & Car
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	Meas Plier
Is steel protective casing installed?	Meal's paint
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	<u> </u>
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	2   X
Measured depth of the well from measurement point: 13.3	
Thickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard) etc.):	
Description of well bottom conditions (soil, nata) steel.	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Location/Functional Area:	LLII
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: / ( . O ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	<b>5</b> 1
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	inasuman selakatan kan menelekan menelekan menelekan menelekan menelekan kan menelekan menelekan menelekan men Menelekan menelekan
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 16.5	8
Thickness of sediment accumulation (reported depth-present me	easurement): -0.58
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	ans con escretario da como granes pura francesco con consecuente de consecuente a consecuente a consecuente a consecuente de c
Inspection Date: 6-30-08 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>WW</u> - 006 Location/Functional Area:	LLII
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 15.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	• 0'
Are the posts positioned to prevent collision damage to the well?	7 Nears new 100
Are any of the posts damaged or degraded?	X and well ca
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct humber?  Describe labeling: NO Michigan Stencil of	Naell
Security:	titi tuomateen ta enteen muuntaan een een een een een een een een een
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	neren and a second seco
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: / 5,%	3
Thickness of sediment accumulation (reported depth-present me	asurement): <u>-0,35</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft that), etc.):	
1 21218	7) 3 J
Inspection Date: 6-30-08 Inspected by: Tohu	n /////fev

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	11 40
Well Number: in W Oo7 Location/Functional Area:	2114
Casing Type: Steel Stainless Steel VPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 25.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	онивания на научения на том на простоя на прост
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	x
Does the protective casing have a weep hole?	¥
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Stancol on well	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	, LXLLLL
Measured depth of the well from measurement point: 25.4	<u> </u>
Thickness of sediment accumulation (reported depth-present me	easurement): 10,24
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Description of well bottom conditions (sort, larg, etc.).	- 'the
Inspection Date: 6-30-56 Inspected by: John	n Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Location/Functional Area:	UI
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: / ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: \[ \( \sum_{4} \) ft \[ \] BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	F
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?  Describe labeling: Stewil on well, no m	
Security:	eug/1107
Does the well have a cap or lid?	$\sim$
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	, 🗵 🗆 🗀
Measured depth of the well from measurement point:	$\frac{2}{2}$ asurement): $-0.46$
Thickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	and the children in the control of the control of the children control of the
Inspection Date: 630-07 Inspected by: 10m	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Number: Location/Functional Area: L	<u>til</u>
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground completion:	
Reported Construction Depth: 19.27 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	<u> </u>
Does vegetation around the well need clearing?	<u> </u>
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Stence & Medallum	
Security:	
Does the well have a cap or lid?  Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $19.68$	
Thickness of sediment accumulation (reported depth-present mea	asurement): -0Hl
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 1230-08 Inspected by: John M	iller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 1000-00 Location/Functional Area:	<u>LLI</u>
Casing Type: Steel Stainless Steel NPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 03,4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	7
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	7 Scheduled
Flush-mount completion:	Off.
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	. The state of the
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	anne gant a
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.	60
Thickness of sediment accumulation (reported depth-present me	asurement): -0.20
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	-
Inspection Date: 6-30-4 Inspected by: 000 M	Niller

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Ravenna Army Ammunition	
WELL INSPECTION CHECK	KLIST
WELL INFORMATION:	
Well Number: MW-099 Location/Functional Area: L	_L-12
Casing Type: Steel Stainless Steel 又 PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Caround	
Reported Construction Depth: 27.   ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	Broo (chose the thiy)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	anderen men in den here der der der den her de harte de here der der der der der den der de de de de de de de d De de
Does the well have a cap or lid?	THE TOTAL PROPERTY OF THE PROP
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.37	7
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
1010	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-107 Location/Functional Area:	11-17-
Casing Type: Steel Stainless Steel X PVC	,
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 33   ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	又
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Print and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	×
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	ta tidaki 1900-1900 ya sa saliana ii cana cara ara ara ara ara ara ara ara ara a
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.7	
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>-0,67</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2004 Inspected by: MR	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-113 Location/Functional Area:	LL-12
Casing Type: Steel Stainless Steel X PVC	
©creened/Open-Hole Well Type:	Monitor Interval Length: 0 ft
	_ Monitor interval Length it
Flush-mount/Above-ground Completion: Hore Caround	·
Reported Construction Depth: 25.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	V=0 110 1111 001115150
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	<u> </u>
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	Y
Does the protective casing have a weep hole?	K
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	หลาย <sup>กรรม</sup> ีโรม (ม.พ.ก. พ.พ.ศ. พ.ศ. พ.ศ. พ.ศ. พ.ศ. พ.ศ. พ.
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	<b>X</b>
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.96	
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>+ 6,04</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 71/208 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number:MW-124 Location/Functional Area:	LL-12
Casing Type: Steel Stainless Steel PVC	
	Monitor Interval Length: D ft
Screened/Open-Hole Well Type:  Flush-mount/Above-ground Completion: Above Ground	_ Monitor interval Length it
Flush-mount/Above-ground Completion: Albare Ground	
Reported Construction Depth: 33.3 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	× I
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	The second secon
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	X Z
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	У
Does the well have a weatherproof lock?	×
Does the lock secure well?	X
Does the inner casing have a water-tight cap?	<u> </u>
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 34.2	
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-153 Location/Functional Area: L	117
Casing Type: Steel Stainless Steel X PVC	,
Screened Open-Hole Well Type:	Monitor Interval Length: D ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 25 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	VEO NO NIA COMMENTO
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	T V
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: これる	7
Thickness of sediment accumulation (reported depth-present me	asurement): -0.13
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): <u>Hard</u>	
Inspection Date: 7/1/208 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-154 Location/Functional Area:	LL-12
Casing Type: Steel Stainless Steel X PVC	
\$creened/ppen-Hole Well Type:	Monitor Interval Length: /O ft
A	women mervar congui.
Flush-mount/Above-ground Completion: Hoeve (ground	
Reported Construction Depth:	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	<u> </u>
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Laint and Tag	and the second the second seco
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	<u>×                                      </u>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 24.72	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	ASUITATION OF THE PROPERTY OF
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MS	менти в нестипнительной обтобы сына социальный менен в нестипнати в не

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Mw-182 Location/Functional Area:	LL-12
Casing Type: Steel Stainless Steel X PVC	
Screeped/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 37,7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	2. 2. ee (eness and entry)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Rust at top
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 34.00	
Thickness of sediment accumulation (reported depth-present me	asurement): -0,36
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MB	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-193 Location/Functional Area:	LL-12
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alowe Grand	
Reported Construction Depth: 36.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:니	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: laint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	<b>&gt;</b>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 36.4	<del></del>
Thickness of sediment accumulation (reported depth-present me	asurement): -0,41
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Had	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: _ MW- 18년 Location/Functional Area: _ L	_L-1Z
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
	World Rie var Longin.
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 31.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	7
Does vegetation around the well need clearing?	X Reeds
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	от на при
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 31.13	·
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.07
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/20% Inspected by: M	•

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW - 1 85 Location/Functional Area:	1-12
Casing Type: Steel Stainless Steel X PVC	
\$creened/@pen-Hole Well Type:	Monitor Interval Length: 10 ft
	worldor interval Length it
Flush-mount/Above-ground Completion: More Corond	
Reported Construction Depth: 23.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	又
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	×
Does vegetation around the well need clearing?	X scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: faint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.0	7
Thickness of sediment accumulation (reported depth-present me	easurement): +0.18
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<u>X</u>
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-186 Location/Functional Area: L	-L-12
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: JO ft
Flush-mount/Above-ground Completion: Above Ground	_ Mo.net interval Zengan R
Reported Construction Depth: 1,0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	Brook (Chose only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	•
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	K Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.11	
Thickness of sediment accumulation (reported depth-present me	easurement): -0.
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hwd	
Inspection Date: 7/1/209 Inspected by: MS	

WAS CONT

Ravenna Army Ammunition I WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-187 Location/Functional Area: L	L-17
Casing Type: Steel Stainless Steel X PVC	, , <u>, , , , , , , , , , , , , , , , , </u>
Screened/Open-Hole Well Type:	Monitor Interval Length: ↑0 ft
	Worker Merval Longuit 10 it
Flush-mount/Above-ground Completion: Alone Grand	
Reported Construction Depth: 29.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	avyorany
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	FINE TO SERVICE TO SER
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.68	
Thickness of sediment accumulation (reported depth-present mea	asurement): -0.28
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 7/1/2008 Inspected by: MB	
Inspection Date: 7/1/7008 Inspected by: M3	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-188 Location/Functional Area:	LL-1Z
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Corond	
Reported Construction Depth: 22 2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the state of t
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.2	<u>(6</u>
Thickness of sediment accumulation (reported depth-present me	asurement): -0.06
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): $\frac{1}{2} \frac{1}{2} $	
Inspection Date: 7/1/2008 Inspected by: MS	
inspected by: 170 mspected by: 170	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-189 Location/Functional Area:	4-12
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: /O
Flush-mount/Above-ground Completion: Above Grand	
	TOTAL CONTRACTOR OF THE PARTY O
Reported Construction Depth: 19.6 ft BGS or	BTOC (chose one only)
Well-Head Completion: INSPECTION ITEMS	YES NO N/A COMMENTS
wen-nead Completion.	TES NO IVA COMINIENTS
Above-ground completion:	A STATE OF THE STA
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	те не при
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	та басандар жана а биосо у до отоброго поточно и област (1994 г. д. н. н. н. 1995 г. д. н. н. 1995 г. д. н. н. 1995 г. н. н. н. 1995 г. н. н. н. н. 1995 г. н. н. н. н. 1995 г. н. н. н. н. н. н. 1995 г. н.
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure welf?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.25
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Had	
ANTO WAS TO COMPANY AND	

The Mild and Supple States of the party and the

Ravenna Army Ammunition F WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-Z4Z Location/Functional Area: L	4-12
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: /O ft
	Monitor filterval Length. 70 II
Flush-mount/Above-ground Completion: Alaxe Ground	
Reported Construction Depth: $28.3$ ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduked
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Yaint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.14	
Thickness of sediment accumulation (reported depth-present mea	asurement): -0,84
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MB	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number:	4-12
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground completion:	
Reported Construction Depth: 25.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Need pount, rustin
is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	X
Describe labeling: Paint and Tag.	
Security:	
Does the well have a cap or lid?	X
Does the well have a weatherproof lock?	X
Does the lock secure well?	<u> </u>
Does the inner casing have a water-tight cap?	×
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 254	
Thickness of sediment accumulation (reported depth-present me	asurement): 1 0.60
Are there an obstructions in the well?  Description of well bottom conditions((soft) hard, etc.):	
Decompliant of well bottom conditional abits flaid, etc.).	
Inspection Date: 7/1 08 Inspected by: MB	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MWーンリリ Location/Functional Area: [	1-12
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:   O ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 32.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	By Co (choos one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	The District Appendix of the Contract of the C
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	<b>岁</b>
Are any of the posts damaged or degraded?	F Pusted
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	У
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	×
Describe labeling: Paint and Tag	A SOUTH AND THE WAS A SOUT
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confoded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 30.47	, ————————————————————————————————————
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: M3	The state of the s

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-245 Location/Functional Area: (	1-12
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Covard	
Reported Construction Depth: 30.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<i></i>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Haary Rust
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	K 1
Does vegetation around the well need clearing?	× Schedukd
Flush-mount completion:	Annual Control of the
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	**************************************
is the well labeled with the correct number?	
Describe labeling: Paint and Tra	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 30.19	<del></del>
Thickness of sediment accumulation (reported depth-present me	easurement): +0,31
Are there an obstructions in the well?	, 🔲 🔀 🔛
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-246 Location/Functional Area:	LL-12
Casing Type: Steel Stainless Steel X PVC	
	Monitor Interval Length: 0 ft
Screened/Open-Hole Well Type:	Monitor Interval Length: 0 ft
Flush-mount/Above-ground Completion: Above Consud	
Reported Construction Depth: 343 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	### ##################################
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Harry Rust/Decline
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	Manufacturing group group de also concrete and the second and the
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	and the second s
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 35.01	700Uromont); = 0.22
Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well?	asurement): - or r
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MB	Delicities consistent en procedent au committe au de la consistent de la c

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	1
Well Number: <u>yww-00</u> Location/Functional Area:	ASY
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:[O ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 23.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	- $ n$ $n$ $+$
Are the posts positioned to prevent collision damage to the well?	X _ / leads pamile
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Wedallim on Coley	Stencil an well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confoded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.30	
Thickness of sediment accumulation (reported depth-present mea	asurement): +0,40
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard) etc.):	
Inspection Date: 7-1-09 Inspected by: Tohu	M. I lev

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Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	1 - 2
Well Number: MW-MD Location/Functional Area:	XISP
Casing Type: Steel Stainless Steel PVC	•
Screened/Open-Hole Well Type:	Monitor Interval Length: 9,5 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Needs painting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct/number?	
Describe labeling: Westallion on cover, 5	toneil on well
Security:	от на при на На при на при
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	ــــــــــــــــــــــــــــــــــــــ
Measured depth of the well from measurement point: 23,1	
Thickness of sediment accumulation (reported depth-present me	easurement): -0.40
Are there an obstructions in the well?	
Description of well bottom conditions (soft haid, etc.):	
Inspection Date: 1-1-06 Inspected by: () Ohiv	MIVER

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WELL INSPECTION CHECK	KLIST
WELL INFORMATION:	A O (.)
Well Number: MW-003 Location/Functional Area:	
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10
Flush-moun/Above-ground Completion:	
Reported Construction Depth: 33.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	Profession of Australian Profession (Control of Control
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Meeds Nan
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the coppect pugiber?	
Describe labeling: Meda Mon on cover, 5	towit on well
Security:	and the second
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	and the second s
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 33.60	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.10
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard) etc.):	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	1006
Well Number: 100 Location/Functional Area:	
Casing Type: Steel Stainless Steel PVC	V
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 29.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	3000000000000000000000000000000000000
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Meds paintin
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the garrect gumber?	
Describe labeling: Medal 1100 on Cover	stoneil an well
Security:	anga-pendukangga akanggang kepangan bibakkan kada kepandidi bekan dalah kepandi pendunyan pendunyan pendunyan d
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	X
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.94	<u> </u>
Thickness of sediment accumulation (reported depth-present me	asurement): -0.34
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
	111.110.
Inspection Date: 1-1-00 Inspected by: 60hm	IVIT PER

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>MW+ 065</u> Location/Functional Area:	ASP
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length:   D   ft
Flush-mount/Above-ground Completion	·
Reported Construction Depth: 36.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<u> </u>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Pleas paining
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely boited to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Madallina on COLON, STEN	eil on evel
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.39	<u> </u>
Thickness of sediment accumulation (reported depth-present me	asurement): 1/17
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<u> </u>
	and further further for the second
Inspection Date: 7-1-88 Inspected by: JOHN	VVIIA

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	'h) -
Well Number:	ASY
Casing-Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	·
Reported Construction Depth: 28.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	x Needs painting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?  Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?  Describe labeling: Medal 1011, om CDVev,	Stenci
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27. 0	
Thickness of sediment accumulation (reported depth-present mea	asurement): -0,28
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	1/14
Inspection Date: 1-1-00 Inspected by: 10 MM	printer

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-007 Location/Functional Area: A	SY
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole-Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 288 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medaller on cover, Stencil	ma lat M
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	Х
Measured depth of the well from measurement point: 28.83	
Thickness of sediment accumulation (reported depth-present mea	asurement): $=0.02$
Are there an obstructions in the well?	X
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7-1-08 Inspected by: John M	iller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:  Well Number: MW - 007 Location/Functional Area:	ASY
Casing-Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 27.7 ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?	Aleds painting
Does the well have a flush-mount box? Is the traffic cover cracked or broken? Is the concrete apron cracked or deteriorated? Frost Heaving?	X X
Is the well labeled with the correct number?  Describe labeling: Melalun an Cover, Security:	Meil on well
Does the well have a cap or lid?  Does the well have a weatherproof lock?  Does the lock secure well?  Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point:  Thickness of sediment accumulation (reported depth-present measurement an obstructions in the well?  Description of well bottom conditions (soft, lard) etc.):	1-00
Inspection Date: 748 Inspected by: Tohu	Milla

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION: Well Number: MW-09 Location/Functional Area:	ASY
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 0 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24.3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	<i>n</i> /
Are the posts positioned to prevent collision damage to the well?	MI Needs painting
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?  Describe labeling: Weka // bh on Cover, y	not pour stencil on
Security:	to a superior and the superior of the superior
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 24,6	اـــالــــــــــــــــــــــــــ
·	<u> </u>
Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well?	easurement): 57
Description of well bottom conditions (soft, hard etc.):	—   <b>/</b>
Inspection Date: 7-1-00 Inspected by: 16/14	1 Miller

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number:	ACV	
Screened/Open-Hole Well Type:	Monitor Interval Length: ( ) ft	
Flush-mount/Above-ground Completion:	·	
Reported Construction Depth: 39.8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion: 3	***************************************	
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X Peds parting	
Is a concrete pad installed?	x	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the carrect number?		
Describe labeling: Medallium on Court, 5	Tenes on well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?  Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing bone, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 31.23		
Thickness of sediment accumulation (reported depth-present me	easurement): -1,45	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
	ann an ann an an an ann an an an an an a	
Inspection Date: 7 / Inspected by: 50 /2	a_Milfer	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Mw-010 Location/Functional Area:	Bi2
Casing Type: Steel Stainless Steel PVC	•
Screened/Open-Hole Well Type:	Monitor Interval Length: O ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 23.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X screduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 229	
Thickness of sediment accumulation (reported depth-present me	<del></del>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2004 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Mw-ou Location/Functional Area:	B12
Casing Type: Steel Stainless Steel A PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Covernd	-
Reported Construction Depth: 36,9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	E-mathematical Control of the Contro
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	MERINA CALADON RADIONAL AND AN ALIZANDA STEELS (TOTAL ENVIRONMENT OF PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL TOTAL OF THE TOTAL OF
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	K
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	L 26.82 d
Thickness of sediment accumulation (reported depth-present me	$\angle 06.82$ Glasurement): $\pm 0.088$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 6/30/2009 Inspected by:	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW - 017 Location/Functional Area:	Biz
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 16 ft
	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Cround	
Reported Construction Depth: 24.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Laint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?  Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24,40	)
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2004 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	001
Well Number:	CBC
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: /O ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 51.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Yusty
Is a concrete pad installed?	noeds party
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	×
Does vegetation around the well need clearing?	
Flush-mount completion:	aan ka maa ka mada ah
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct/number?	חומ
Describe labeling: Medallin an Cal step	weil an well
Security:	annan makamun na Kalan kan matauman manan ma Manan manan ma
Does the well have a cap or tid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	ง (ของ การ
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $99.93$	3
Thickness of sediment accumulation (reported depth-present me	asurement): +1.65
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	7
	an annonne an an an an an annonne an annonne an annonne annonne an annonne an annonne an annonne an annonne an
Inspection Date: 6-30-07 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-002 Location/Functional Area:	CBZ_
Casing Type: Steel Stainless Steel Y PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: D ft
Flush-mount/Above ground Completion:	
Reported Construction Depth: 47.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	у, 55 д. од нежение постоя од 1974 год 2013 год 1974 год
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Yust, 1
Is a concrete pad installed?	N News PAR
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	X
Is the traffic cover cracked or broken?	X
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Melallin an cap, Stencil	on well
Security:	and the state of t
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	7
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	en e
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 47.52	2
Thickness of sediment accumulation (reported depth-present me	asurement): -0-32
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
The contractive of the contracti	
Inspection Date: (30.09) Inspected by: This	Milter

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Company of the Company

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
	CRI	
Well Number: MW-003 Location/Functional Area:		
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: D ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 45,8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 5	N' - 1	
Are the posts positioned to prevent collision damage to the well?	Noeds paint	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	and the second s	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	Learners of Learners of Landers o	
Is the well labeled with the correct number?		
Describe labeling: Madallion on Cup stency	on well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point:	F	
Thickness of sediment accumulation (reported depth-present mea		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard) etc.):		
	A	
Inspection Date: 630 - 8 Inspected by: Tohn	Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: <u>nw- 004</u> Location/Functional Area:	CBL	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 46.8 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	1 - 1 - 1 (energe and analy)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X I I Must	
Is a concrete pad installed?	Nepil's pur	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?	X	
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Medallin on Cap, Stor	eil an well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point:	0.40	
Thickness of sediment accumulation (reported depth-present mea	asurement): -0.42	
Are there an obstructions in the well?		
Description of well bottom conditions (soft (hard), etc.):		
Inspection Date: 6-3 P-68 Inspected by: John	Miller	

Ravenna Army Ammunition WELL INSPECTION CHECK		
WELL INFORMATION:		
Well Number: MW-001 Location/Functional Area: C	BP.	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Inter	rval Length: 10 ft
Elush-mount/Above-ground Completion: Above Ground		
Reported Construction Depth: 349 ft BGS or	ВТОС	(chose one only)
INSPECTION ITEMS		
Well-Head Completion:	YES NO	N/A COMMENTS
Above-ground completion:		
Number of Guard posts at well:3		<u></u>
Are the posts positioned to prevent collision damage to the well?	X	
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		<u>behind construction</u>
Flush-mount completion:	art och ficker ann der die till det til det til de till en sen av staten ander blever betyde	scheduled
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint		
Security:		en angengan pengengangan disahan ang selabah disahan ang selabah di pengengan pengengan pengengan pengengan pe
Does the well have a cap or lid?		
Does the well have a weatherproof lock?	X	
Does the lock secure well?	$\forall$	
Does the inner casing have a water-tight cap?		
Down-hole Condition:	A CANADA AND AND AND AND AND AND AND AND AN	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 32.81		00
Thickness of sediment accumulation (reported depth-present me	asurement):	+2.09
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 7/1/700% Inspected by: MS		«В НОСКО НЕ «В НЕ В НОСКО» «В НЕ
Inspection Date: 7/1/7004 Inspected by: MS		

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-607 Location/Functional Area: (	SP
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: D ft
1	Monitor interval Length. 10
Flush-mount/Above-ground Completion: Alare Ground	
Reported Construction Depth: 32,2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	× Scheduled
Flush-mount completion:	AND BROKEN BENEFIT OF THE STATE
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	又
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.1억	1 - 5(
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.06
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	vm
Inspection Date: 71/2004 Inspected by: M3	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW-003 Location/Functional Area:	CBP	
Casing Type: Steel Stainless Steel FPVC		
Screened/Open-Hole Well Type:	Monitor Interval Length:	
Flush-mount/Above-ground Completion: Move (ward		
Reported Construction Depth: 27.   ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	and the state of t	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?	X	
Down-hole Condition:	and the second s	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 30.31		
Thickness of sediment accumulation (reported depth-present me	asurement):3,20°°°	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): \( \text{\text{Mod}} \)		
The second secon		
Inspection Date: 7 (1/2004 Inspected by: MS		

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-aby Location/Functional Area:	CBP
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: D ft
Flush-mount/Above-ground Completion: Above - Ground	
Reported Construction Depth: 29.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	alah Malah daganggap persebagai salah s
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	×
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	
Security:	The Property of the Control of the C
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	$\times$
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.7	<u> </u>
Thickness of sediment accumulation (reported depth-present me	$\frac{-0.24}{}$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	f Medium (MS)
Incorporation Date: 711/2	
Inspection Date: 7/1/7008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-005 Location/Functional Area: C	°GP
Screened/Open-Hole Well Type:	_ Monitor Interval Length:
Flush-mount/Above-ground Completion: Above Covarial	
Reported Construction Depth: 27.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	$\triangleright$
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	<b>X</b>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.5	
Thickness of sediment accumulation (reported depth-present me	asurement): $-0.22$
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Medi	vvn
Inspection Date: 711/2046 Inspected by: MS	
moreotton Date. 1111000 moreoted by.	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-007 Location/Functional Area:	CBP
Casing Type: Steel Stainless Steel X PVC	
	Monitor Interval Length: 10 ft
	_ World the var cengur to _ tr
Flush-mount/Above-ground Completion: Above-Ground	
Reported Construction Depth: $25$ , ft BGS or	BTOC (chose one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	× Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Vaint	The state of the s
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well easing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 31.68	
Thickness of sediment accumulation (reported depth-present me	easurement): - 6.78
Are there an obstructions in the well?	William Willia
Description of well bottom conditions (soft, hard, etc.):	M
Inspection Date: 71/700% Inspected by: M3	

WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: Mw-604 Location/Functional Area:	CBP	
Casing Type: Steel Stainless Steel K PVC		
	Monitor Interval Length: 10 ft	
Screened/Open-Hole Well Type:	_ Worktor Thervar Length It	
Flush-mount/Above-ground Completion: Above Ground		
Reported Construction Depth: 32.4 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	X Scheduled	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Paint		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?  Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?	X Faint (B)	
Measured depth of the well from measurement point: 29.03		
Thickness of sediment accumulation (reported depth-present me	easurement): + 4.37	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): Hard		
Inspection Date: 7/1/200% Inspected by: MB	· 	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MW-006 Location/Functional Area:	CBP	
Casing Type: Steel Stainless Steel PVC		
Sereened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion: Above Ground	<u> </u>	
Reported Construction Depth: 27.6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well: 3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	Schenuled	
Flush-mount completion:	nan a santa mining na manganan mangan mangan mangan mangan sa mangan dikang dan mangan mangan mangan mangan ma Mangan mangan manga	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	THE STATE AND THE STATE OF THE	
Is the well labeled with the correct number?		
Describe labeling: Paint		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?	$\boxtimes$	
Does the lock secure well?	X	
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 25.39	<u>}</u>	
Thickness of sediment accumulation (reported depth-present me	asurement): +2.22	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 7 1 7000 Inspected by: MB		

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-601 Location/Functional Area:	cf
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: /Ö ft
Flush-mount/Above-ground Completion: Flush-Mount	
Reported Construction Depth: /5,3 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Pain+	
Security:	(MAIL VALCO SARE et and Colores (ACC) And Color (ACC) ACC) ACC (ACC) ACC (AC
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	andan kan dan dan dan dan dan dan dan dan dan d
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 1년. 81	
Thickness of sediment accumulation (reported depth-present mea	asurement): +0,49
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2006 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-907_ Location/Functional Area: C	CP
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion Alare Grand	- Flush-Mount 608
Reported Construction Depth: 15.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	AND THE PROPERTY OF THE PROPER
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	$\forall$
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Vánt	
Security:	уруулуун үчүн жар тоо орон ман жана жана жана бой
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	K X O
Does the lock secure well?	X X
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	Casing filted
Is the well casing loose, (at the surface?)	W with water 4
Is a measurement point marked a the top of well casing?	X nasket replaced
Measured depth of the well from measurement point: 15.09	
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.02
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hark	
Inspection Date: 7/1/2004 Inspected by: 10/3	

Ravenna Army Ammunition WELL INSPECTION CHECK	■ ·
WELL INFORMATION:	
Well Number: MW-⇔3 Location/Functional Area:	CP
Casing-Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Flush-Marnt	
Reported Construction Depth: 17.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	"
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	The second secon
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	Scheduled 72108
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Print	
Security:	And the state of t
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	<u> </u>
Is the well casing bent, corroded, or broken (at the surface?)	Casing filled
Is the well casing loose, (at the surface?)	with water + add gasket
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 17.83	· · · · · · · · · · · · · · · · · · ·
Thickness of sediment accumulation (reported depth-present mea	asurement): - <u>0.23</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): <u>Hard</u>	
Inspection Date: 7/1/2004 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Mu-694 Location/Functional Area:	CP
Casing Type: Steel Stainless Steel PVC	
(Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 222 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	2.00 (eness site site)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	***************************************
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	K
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	The second of th
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.4	
Thickness of sediment accumulation (reported depth-present me	~ ^ //
Are there an obstructions in the well?	N N
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/700% Inspected by: MB	The second secon

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-605 Location/Functional Area:	CP
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: JO ft
Flush-mount/Above-ground Completion: Macre-Ground	<del></del>
Reported Construction Depth: 42.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	·
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	x Scheduled 7/2/08
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Kaint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 43.3	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):  Hare	, LIKILI
besomption of well bottom conditions (soft, fidia, etc.).	T
Inspection Date: 1/1/2⇔ Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-006 Location/Functional Area: C	CP
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: [O ft
	_ Mornior interval 2019an(C)
Flush-mount/Above-ground Completion: Alore (ground	
Reported Construction Depth: <u>20.3</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	VEG. NO. N/A COLUMNIA
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	anaman kan manaman manaman kalaban manaman kan kan manaman manaman manaman manaman kan kan manaman manaman man Manaman kan manaman ma
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	And the second s
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 20.75	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	)
Inspection Date: 6/30/7004 Inspected by: MS	•

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
	DET Demo Area 2
\ \frac{1}{2}	DLI comorrada
Casing Type: Steel Stainless Steel PVC	· · · · · · · · · · · · · · · · · · ·
(Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 40,5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	needs painting
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	Y Lad wobbles all
Is steel protective casing installed?	X nepts to sep
Does the protective casing have a weep hole?	Stabilized
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
ification:	
ne well labeled with the correct number?	
Describe labeling: No modal (Ilm, Stancil) Security:	on well
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	and the second s
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	. 1 (2)
Thickness of sediment accumulation (reported depth-present mea	asurement): + 1, 8/
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
	and the second s
Inspection Date: 100 Inspected by: 10m	Willer

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: Location/Functional Area:	DET DemoArea 2
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Apove-ground Completion	
Reported Construction Depth: 40.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?  Is the traffic cover cracked or broken?	Square outlar can heads parming mile rust one of Easing whenever of Easing whenever of Easing with the same of Easing with the
Is the concrete apron cracked or deteriorated? Frost Heaving?	
'entification: s the well labeled with the correct number?  Describe labeling: No medallim Stonci  Security:	on well
Does the well have a cap or lid?  Does the well have a weatherproof lock?  Does the lock secure well?  Does the inner casing have a water-tight cap?	
Down-hole Condition:  Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)  Is a measurement point marked a the top of well casing?	reedo new well cap
Measured depth of the well from measurement point:  Thickness of sediment accumulation (reported depth-present me Are there an obstructions in the well?  Description of well bottom conditions (soft hard, etc.):	2
Inspection Date: 7-1-63 Inspected by: 55 Mm	miller

Ravenna Army Ammunition WELL INSPECTION CHECI	1
WELL INFORMATION:	
Well Number: DET-3 Location/Functional Area:	DAZ
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length:5 ft
Flush-mount/Above-ground Completion: Move Commond	
Reported Construction Depth: 3.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	tion which are an amount of the desirable in the desirabl
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X screduled weedward
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	BANKARIAN PARENTANIAN ARABAM ARABAM PARENTANIAN PROPERTY PROPERTY AND ARABAM PARENTANIAN PROPERTY PROP
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	<del>y</del> =
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: \(\lambda.09\)	{
Thickness of sediment accumulation (reported depth-present me	asurement): -3.09
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 71/2018 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECI	
WELL INFORMATION:	
Well Number: 〇巨丁-니 Location/Functional Area:	DAZ
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion: Above Ground	<u>\</u>
Reported Construction Depth: /3.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	¥
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Schooly led weed use
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 13.89	·
Thickness of sediment accumulation (reported depth-present me	easurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hwd	
Inspection Date: 7/1/254 Inspected by: M3	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Location/Functional Area:	DA3
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion	<u> </u>
Reported Construction Depth: 29 6 ft BGS or	BTOC (chose one only)
<del></del>	Broc (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	тавичеторицы (1800 год под менен на выполнения общения пред 1900 год (1800 год под 1800 год на под 1800 год под
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	New paintal
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	- ·
Is the well labeled with the correct number?	
Describe labeling: Medallion in comow,	softner on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.33	asurement): +0,00
Thickness of sediment accumulation (reported depth-present mea	asurement): 10,001
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Description of well bottom conditions (soit, flato, etc.).	
Inspection Date: 7-1-08 Inspected by: John	M. Nev

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: 105 Location/Functional Area:	DAZ-
Casing Type: Steel Stainless Steel PVC	·
Screened Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 16.2 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: , /	**************************************
Number of Guard posts at well:	_
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Neads pamm
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	<u> </u>
Identification:	A PROPERTY OF THE PROPERTY OF
Is the well labeled with the correct number?	
Describe labeling: Medallion in pad Ste	ncil an well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have <sup>t</sup> a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 16,40	<u> </u>
Thickness of sediment accumulation (reported depth-present me	asurement): - 0.00
Are there an obstructions in the well?	
Description of well bottom conditions (soft, (ard), etc.):	
Inspection Date: 7-1-08 Inspected by: Tohn	Miller
moposited by.	111110

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number:	DA2
Casing Type: Steel Stainless Steel	
Screened/Open-Hole Well Type:	Monitor Interval Length: 7 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: (8.) ft BGS or	BTOC (chose one only)
· <u> </u>	ET ST ST (ST ST S
Well-Head Completion: INSPECTION ITEMS	YES NO N/A COMMENTS
Above-ground completion:	AND
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	M Do charge in
Are any of the posts damaged or degraded?	woston (
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: <u>Meda lun in pak, Ster</u>	neil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point:	) <del> </del>
Thickness of sediment accumulation (reported depth-present measurements)	<b>/ ⊈</b> asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7_1-98 Inspected by: TD hy	- Miller

WELL INSPECTION CHECKLIST  WELL INFORMATION:  Well Number:
Well Number:
Casing Type: Steel Stainless Steel PVC  Screened Open-Hole Well Type: Monitor Interval Length: 5 ft  Flush-mount Above-ground Completion:  Reported Construction Depth: 16,5 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion: YES NO N/A COMMENTS  Above-ground completion:
Screened/Open-Hole Well Type: Monitor Interval Length: ft  Flush-mount/Above-ground Completion: ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion: YES NO N/A COMMENTS  Above-ground completion: /
Flush-mount Above-ground Completion:  Reported Construction Depth: 16.5 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion:  Above-ground completion:
Reported Construction Depth: 16,5 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion:  Above-ground completion:
Well-Head Completion:  INSPECTION ITEMS  YES NO N/A COMMENTS  Above-ground completion:
Well-Head Completion: YES NO N/A COMMENTS  Above-ground completion:
Above-ground completion:
-1
Number of Guard posts at well:
Are the posts positioned to prevent collision damage to the well?
Are any of the posts damaged or degraded?
Is a concrete pad installed?
Is the pad cracked or deteriorated? Frost Heaving?
Is steel protective casing installed?
Does the protective casing have a weep hole?
Does vegetation around the well need clearing?
Flush-mount completion:
Is the traffic cover securely boited to the flush-mount box?
Does the well have a flush-mount box?
Is the traffic cover cracked or broken?
Is the concrete apron cracked or deteriorated? Frost Heaving?
Identification:
Is the well labeled with the porrect number?
Describe labeling: Medallish in pad, stend on well
Security:
Does the well have a cap or tid?
Does the well have a weatherproof lock?
Does the lock secure well?
Does the inner casing have a water-tight cap?
Down-hole Condition:
Is the well casing bent, corroded, or broken (at the surface?)
Is the well casing loose, (at the surface?)
Is a measurement point marked a the top of well casing?
Measured depth of the well from measurement point: 17.02
Thickness of sediment accumulation (reported depth-present measurement).
Are there an obstructions in the well?
Description of well bottom conditions (soft, hard, etc.):
Inspection Date: 7-1-67 Inspected by: Tohn Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: WW_ LOY Location/Functional Area:	DAZ
Casing Type: Steel Stainless Steel	,
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 16.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	reference Augustus des augustos esta del
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	то по при
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	<u> </u>
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallon bin part	stencil on well
Security:	
Does the well have a cap or fid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confided, or broken (at the surface:)	H#H
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 17.34	
Thickness of sediment accumulation (reported depth-present me	asurement): -0,44
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 5-1408 Inspected by: John	Miller

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-109 Location/Functional Area:	DAZ .
Casing-Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 17) ft
Flush-mount/Above-ground Completion: Aloave Ground	
	BTOC (chose one only)
	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	×
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	x scheduled weldual
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	rangan pentuan kanan br>Kanan kanan ka
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.4	
Thickness of sediment accumulation (reported depth-present me	asurement): ー 0.3み
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	A Medium (B)
Inspection Date: 7/1/2008 Inspected by: MS	<u> </u>

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-110 Location/Functional Area:	DAZ
Casing Type: Steel Stainless Steel ✓ PVC	-
Screened/Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mount/Above-ground Completion: Above Coround	
Reported Construction Depth: 24-10 aft BGS or	BTOC (chose one only)
37.9 INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 22.4	47
Thickness of sediment accumulation (reported depth-present me	asurement): <u>-0.57</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MB	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-III Location/Functional Area:	DAZ
Casing Type: Steel Stainless Steel V PVC	
	Monitor Interval Length: 5 ft
Screened/Open-Hole Well Type:  Flush-mount/Above-ground Completion: Alore Grand	_ Worldon Ritervan Length It
Reported Construction Depth: 14.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 니	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X screduled weedure
Flush-mount completion:	residente de la compansión de la compans
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 14.9	
Thickness of sediment accumulation (reported depth-present me	asurement): - 0 · 10
Are there an obstructions in the well?	,
Description of well bottom conditions (soft, hard, etc.): _ HAVE	
Inspection Date: 7/1/2006 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-112 Location/Functional Area:	DAZ
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: // ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X scheduled weeduas
Flush-mount completion:	manufati ang pagamanan na ang katalan ini matata na ang pagamanan na ang pagaman na ang pagaman na ang pagaman
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	7
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	<b>X</b>
Measured depth of the well from measurement point:	7
Thickness of sediment accumulation (reported depth-present me	easurement): <u>-0.57</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1204 Inspected by: M5	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MD-113 Location/Functional Area:	)AZ
Casing Type: Steel Stainless Steel VPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 5 ft
Flush-mount/Above-ground Completion: Above Ground	<u></u>
	BTOC (chose one only)
·	Broc (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	又
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Streduled weedwack
Flush-mount completion:	
Is the traffic cover securely boilted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	andraica de control de company de la company
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>-0,31</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<u> </u>
Inspection Date: 1/1/100 4 Inspected by: M?	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: _ Mい-123 Location/Functional Area:	EBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: (D ft
Flush-mount/Above-ground Completion: Above Ground	)
Reported Construction Depth: 33.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
	TES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	· · · · · · · · · · · · · · · · · · ·
is the well labeled with the correct number?	
Describe labeling: Paint and Tan	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	X I
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 34.9	
Thickness of sediment accumulation (reported depth-present mea	asurement): -1.20
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Medi	Ukang
Inspection Date: 6/30/2005 Inspected by: MS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-124 Location/Functional Area: E	EBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:   O ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 32.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	oran en
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tog	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32 -8	
Thickness of sediment accumulation (reported depth-present me	asurement): +0.04
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	Medwn (B)
Inspection Date: 6/20/2004 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number:Mw-125 Location/Functional Area:	EBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grown	- <u>,                                    </u>
_	<u></u>
Reported Construction Depth: 26.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
	TES NO NA COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	ggagggigg for the second secon
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 27.5	56
Thickness of sediment accumulation (reported depth-present me	easurement): -0.76
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	vd
	; коруу уу 18 жили темпения кана таман жана таман жана жана жана жана жана жана жана
Inspection Date: 6/30/7958 Inspected by: MB	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-126 Location/Functional Area:	EBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Crowd	
Reported Construction Depth: 279 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:4	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X Under Water
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	e-mara-kamunamanan melakahinda kamada da kerdada mela melakahinda kerdada menerikan kerdada da Andre A
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	X
Is a measurement point marked a the top of well casing?	X
Measured depth of the well from measurement point: 27.9	15 (MB)
Thickness of sediment accumulation (reported depth-present me	easurement): +0.05
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<u> </u>
	namentanaman matamatan dan matamatan kalentan sasan kalentan kalen
Inspection Date: 6/30/204 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-127 Location/Functional Area:	EBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>し</u> ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 32.40 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	·
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	reprojekti daga — Makil Amarinan na na na na nagaga jalaga da angaga ana na n
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	A
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	anana no manana manana ny kaominina ao
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	West of the second seco
is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	and any management of the state
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.94	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.54
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2004 Inspected by: MS	

COMPANY CONTRACTOR

CONTRACT CALCACT

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MU-128 Location/Functional Area:	20C
Casing Type: Steel Stainless Steel X PVC	
(Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 28 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	X
Describe labeling: Yaint + Tag	
Security:	Contact and All Contact and Al
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	×
Does the lock secure well?	X
Does the inner casing have a water-tight cap?	×
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 28.3	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<u> </u>
Inspection Date: 6/38/2004 Inspected by: MS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-129 Location/Functional Area:	EB6
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 28.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	erretarione en esta de retarion de la companya de l Companya de la companya de la compa
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	K
Down-hole Condition:	A CONTROL OF THE CONT
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 31.14	
Thickness of sediment accumulation (reported depth-present mea	asurement): -2.74
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	d
Inspection Date: 6/30/2008 Inspected by: MB	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-130 Location/Functional Area: E	BG
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Howe Ground	
Reported Construction Depth: <u>38.3</u> ft <u>BGS</u> or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	K
Measured depth of the well from measurement point: 28.4	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement):O.   φ
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	179/MEG0774444444454545454545454545454545454545
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	•
Well Number: <u>yww - 166</u> Location/Functional Area:	₽BQ.
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: (つ ft
Flush-mount Above-ground Completion	
Reported Construction Depth: 9,5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	bree (enese one only)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	L J X J L
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?  Describe labeling: Mellallin M Concrete.	Stencil on well
Describe labeling: <u>///el/a/// /// Concerts</u>	STENCE UNV VVII
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $19.90$	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.40
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
Inspection Date: 7-1-08 Inspected by: 16 Mm	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number:	FBQ
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
	Monitor interval Longui.
Flush-mount/Above-ground Completion:	
Reported Construction Depth:	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	Y H
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Mydallion in concrete	stereil an well
Security:	According to the second
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	,LX1
Measured depth of the well from measurement point:	b
Thickness of sediment accumulation (reported depth-present me	asurement): -0.26
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	7741.0
Inspection Date: 1-108 Inspected by: 50 M	naileen en anno anno anno anno anno anno ann
mapectation date. VIV mapected by. Corp.	///!

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: _ww-163 Location/Functional Area:	FBQ
Casing Type: Steel Stainless Steel Y PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ( ) ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 21.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?  Is the traffic cover cracked or broken?  Is the concrete apron cracked or deteriorated? Frost Heaving?  Identification:  Is the well labeled with the gorrect number?	
Describe labeling: <u>Medallim W CINCLE</u>	steneil an well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confoded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21.42	
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.18
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7-1-08 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number:   Well Number:   Well Number:   Well Number:   Location/Functional Area:	FBQ
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth:   8,2   ft   BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	<b>X</b>
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	non seen
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the gorrect number?	
Describe labeling: Melalim in concrete, &	areil on well
Security:	т на при
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 13.2	<u>-6</u>
Thickness of sediment accumulation (reported depth-present me	asurement): $-0.04$
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 7-1-07 Inspected by: John	VIIIer

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW- 170 Location/Functional Area:	FBQ
Casing Type: Steel Stainless Steel X PVC	
	Monitor Interval Length: 10 ft
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 32.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	anderes and Tribble and a second and a respect to the second and the second and a respect to the second and the
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	and the same of th
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? / 1	
Describe tabeling: Medallion in anover step	neit an well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	8
Thickness of sediment accumulation (reported depth-present me	asurement): 0.28
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	en contrara de la contrara del la contrara de la contrara de la contrara del la contrara de  la contrara de  la
Inspection Date: 7-1-08 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: Location/Functional Area:	FBQ	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:	·	
Reported Construction Depth: 31.1 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:	an an anns an an 1970 (1984) de française an anns ann anns anns anns anns anns	
Number of Guard posts at well:	<u></u>	
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?	X I inseen	
Does vegetation around the well need clearing?		
Flush-mount completion:	na manana ma Manana manana manan	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:	and the second of the second s	
Is the well labeled with the correct number?		
Describe labeling: Medallon in muret, stene	cil on well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 31.60		
Thickness of sediment accumulation (reported depth-present mea	asurement): <a>-0.50</a>	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
	antiquisi attitutustaanaanaanaanaanaanaanaanaanaanaanaanaan	
Inspection Date: 7-1-0% Inspected by: John	Miler	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number:	FBQ
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: l つft
Flush-mount/Above-ground Completion:	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 34.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?  Is the traffic cover cracked or broken?  Is the concrete apron cracked or deteriorated? Frost Heaving?  Identification:  Is the well labeled with the correct number?  Describe labeling: Medallon we conselved.  Security:  Does the well have a cap or lid?  Does the well have a weatherproof lock?  Does the lock secure well?  Does the inner casing have a water-tight cap?  Down-hole Condition:  Is the well casing bent, corroded, or broken (at the surface?)	X   X   Non seen   X   X   X   X   X   X   X   X   X
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing? Measured depth of the well from measurement point: Thickness of sediment accumulation (reported depth-present measurement an obstructions in the well? Description of well bottom conditions (soft, pard, etc.):	asurement): -0.   4
Inspection Date: 7-1-80 Inspected by: Tolum	Miler

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: <u>www - 113</u> Location/Functional Area:	
Casing Type: Steel Stainless Steel XPVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 20 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 53 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	<u> </u>
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	урода желе без без без без без без без без без бе
Number of Guard posts at well:	,
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X X X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	nonseen
Does vegetation around the well need clearing?	TO T
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallin in concreta, sq	
Security:	<u>CMII — CM WY</u> control control control in the contr
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confeded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point.	1/06
Thickness of sediment accumulation (reported depth-present me	asurement): + 1.11
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
	-
Inspection Date: 7-1-68 Inspected by: Tolksa	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: 174 Location/Functional Area:	FBQ
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ( ) ft
Flush-mount/Aboye-ground Completion:	
Reported Construction Depth: 242 ft BGS or	BTOC (chose one only)
	L/ Broc (chose the thily)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallion in concrete Stev	rcil on well
Security: /	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?  Does the lock secure well?	
**************************************	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bone, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2.0	)4
Thickness of sediment accumulation (reported depth-present me	asurement): +3.16
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard) etc.):	
	nana ang manana na manana na manana na kaona na manana na manana na manana na manana na manana na manana na ma
Inspection Date: 7-1-68 Inspected by: 18/11	Miller

Upper Logical

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	·
Well Number: <u>mv - [75</u> Location/Functional Area:	FBQ
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: <i>lD</i> ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 35.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	X
Is steel protective casing installed?	Ť
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	namentati kunamentati wakioneni waa waninini wani kunameni wani wani wani wakii kuni ilii wakii walii walii wani wani wani wani wani wani wani wa
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Medallion in concrete, 5.	towil on well
Security:	Andrew Processing and the contract of the cont
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?,	
Measured depth of the well from measurement point: $26.00$	,
Thickness of sediment accumulation (reported depth-present me	asurement): -0.40
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7-1-08 Inspected by: John	M; I fer

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	-4 M
Well Number: Location/Functional Area:	FBY
Casing Type: Steel Stainless Steel PVC	,
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 233 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	Circle around one
Is steel protective casing installed?	& post is profe
Does the protective casing have a weep hole?	nonseen
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the porgect number?	
Describe labeling: Metallim	
Security:	TO THE OWN THE CONTROL OF THE CONTRO
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	X
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.2	- h 42
Thickness of sediment accumulation (reported depth-present me	asurement):
Are there an obstructions in the well?	
Description of well bottom conditions (sof), hard, etc.):	
	and the second s
Inspection Date: 74-63 Inspected by: John	VVI.HEV

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Location/Functional Area:	- FBQ
Casing Type: Steel Stainless Steel PVC	•
Screened/Open-Hole Well Type:	Monitor Interval Length: 0 ft
Flush-mount Above-ground Completion:	
Reported Construction Depth: 34.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	01 (1970)
Number of Guard posts at well:	,
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Meda/IIV w concreto, s	Sencil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.0	~ ~ ~ ( )
Thickness of sediment accumulation (reported depth-present mea	asurement): -0.24
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	,
Inspection Date: 7-108 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: MU-02リ Location/Functional Area:	LNW	
Casing Type: Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: Lo	
Flush-mount/Above-ground Completion: Above Grand		
Reported Construction Depth: 22.7 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X Need point, rusted	
Is a concrete pad installed?	Χ '	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?	X. Scheduled	
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling:   Paint and Tag		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 72.44		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): Hard		
Inspection Date: 7/1/2008 Inspected by: MB	-	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Location/Functional Area:	LNW
Casing Type: Steel Stainless Steel PVC	•
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion: Aleeve Carand	
Reported Construction Depth: 9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	TO THE PERSON SHOWN THE PERSON OF THE PERSON
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	X Need paint
is a concrete pad installed?	<b>V</b>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	× Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	THE CONTROL OF THE CO
Is the well labeled with the correct number?	
Describe labeling: Davit and Tra	
Security:	
Does the well have a cap or lid?	K
Does the well have a weatherproof lock?	<i>F</i>
Does the lock secure well?	<b>F</b>
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 20.42	
Thickness of sediment accumulation (reported depth-present me	asurement): 0.50
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): 上いる	
Inspection Date: 71/1008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-076 Location/Functional Area:	LNW
Casing Type: Steel Stainless Steel VPVC	,
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alore Corond	
Reported Construction Depth: 25.8 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	<u> </u>
Are any of the posts damaged or degraded?	X Need Paint - rusted
Is a concrete pad installed?	×
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	X
Measured depth of the well from measurement point: 26.11	
Thickness of sediment accumulation (reported depth-present me	asurement): <u>-6.31</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Incorption Delay 7.1.1.	
Inspection Date: 7/1/2006 Inspected by: 1993	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-027 Location/Functional Area: I	LNW
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: (つ ft
	Worker morvar Longar.
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 26 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	V50 N0 N/4 001115170
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Need Daint - Rotte
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Yaint and lag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 26.48	
Thickness of sediment accumulation (reported depth-present mea	surement): -0.28
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	n I
Inspection Date: 7/1/2004 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	MACA	
Well Number: WW-10/ Location/Functional Area:	- /VNC//	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	_ Monitor Interval Length: ft	
Flush-mount/Above-ground Completion.	toal	
Reported Construction Depth: 34.6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X Rust on posts	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	user som en	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Stencil on well		
Security:		
Does the well have a cap or lid?	$\mathcal{P}$	
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: $29.3$	10011	
Thickness of sediment accumulation (reported depth-present me	pasurement); +0.09	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
	and the same and the	
Inspection Date: 6-30-0 Inspected by: 15/W	hilfer	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Mw-108 Location/Functional Area:	NACA
Casing Type: Steel Stainless Steel	
Screened Open-Hole Well Type:	Monitor Interval Length: 6
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 24.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Pust on posts
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	X
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	<u> </u>
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	4
Identification:	
is the well labeled with the correct number?	
Describe labeling: Stencil on well	
Security:	
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	
Does the lock secure well?	<u> </u>
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	<u> </u>
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.69	^
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
	* 1
Inspection Date: 6-30-08 Inspected by: John M	Mer

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
•	n AcA
Well Number: <u>MW-109</u> Location/Functional Area:	TNCN
Casing Type: Steel Stainless Steel PVC	·
Screened/Open-Hole Well Type:	Monitor Interval Length: (O ft
Flush-mount/Above-ground Completion:	<u> </u>
Reported Construction Depth: 009 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	TOTAL TOTAL TOTAL STATE STATE OF THE STATE O
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X C Rust on posts
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Stencil on well	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	$\mathcal{V}$
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	<b></b>
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21-19	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.20
Are there an obstructions in the well?	
Description of well bottom conditions (soft hard, etc.):	
	anni arang mang mang mang pang mang mang mang mang mang mang mang m
Inspection Date: 6-30-08 Inspected by: John	MITHEN

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	1 111
Well Number: MW-110 Location/Functional Area:	I ALA
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount Above-ground Completion.	
Reported Construction Depth: QQ (0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Ryst on posts
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	менто в тем метринения в настройный высок общений высок на должного под под под под на выправлений выправления
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	<b>X</b>
Describe labeling: Medallon, Stencil um	nell
Security:	an an an an an an an Air ann an
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	· ·
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2993	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>- 0.35</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	A ATTACA PART OF THE PART OF T
	artinostrumanos antenios anten
Inspection Date: 6-30.07 Inspected by: 10 hm	M,HeV

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-     Location/Functional Area:	NACA
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 22.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Buston pasts
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Scheduled
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number? / /	
Describe labeling: Medallon, Stenci on I	vell
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	1 00 1
Thickness of sediment accumulation (reported depth-present me	asurement): +0.12
Are there an obstructions in the well?	
Description of well bottom conditions (soft, tare, etc.):	
Increasing Date: ( RA-O) Increased him TD4:	Miller
Inspection Date: 6-130-07 Inspected by: 10/11	VVIII IT V

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-112 Location/Functional Area:	MACA
Casing Type: Steel Stainless Steel	
creened/Open-Hole Well Type:	Monitor Interval Length: [O ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 2,9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion: 2	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Y Y W
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medal/Im on cap, stem	cit on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 26,8	
Measured depth of the well from measurement point: 26/8	acuraments to or a
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
Description of well bottom conditions (sort, mail, etc.).	
Inspection Date: 6-30-08 Inspected by: John	Miller

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-13 Location/Functional Area:	
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:     ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 35.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Syst on posts
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	температуры уростураты (барында жүнүн жана жана жана жана жана жана жа
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Medallin, Stencil on	well
Security:	[
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, corroded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 29.79	) <del>[</del>
Thickness of sediment accumulation (reported depth-present me	pasurement): +0,81
Are there an obstructions in the well?	
Description of well bottom conditions (soft) hard, etc.):	
Inspection Date: 6-30-8 Inspected by: John	Miller

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: Location/Functional Area:	WACA	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount Above-ground Completion:	<del>-</del>	
Reported Construction Depth: Q. 6 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	Charles Basil	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:	ом междуна на положно в торо в не на	
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Medalhar as carl, Sta	ncill in prosts	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 22.92	- ^ 29	
Thickness of sediment accumulation (reported depth-present me	easurement): -0.38	
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):		
Inspection Date: 6-30-8 Inspected by: John	Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
·	AAA.	
Well Number: Location/Functional Area:	MACH	
Casing Type: Steel Stainless Steel PVC		
Screened Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount/Above-ground Completion	· • • • • • • • • • • • • • • • • • • •	
Reported Construction Depth: 25,2 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	X Rus on onto	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
is the well labeled with the correct number?		
Describe labeling: Medalling un car, Stone	cit on well	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 25.43		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, lard) etc.):		
Inspection Date: 6-80-00 Inspected by: 0hn	While	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: Location/Functional Area:	DACK	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: ft	
Flush-mount Above-ground Completion		
Reported Construction Depth: 22.6 ft BGS or	BTOC (chose one only)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?	x Cust on picts	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Medallin, Steney on I	ver i	
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?  Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point:	<del></del>	
Thickness of sediment accumulation (reported depth-present mea	- 11	
Are there an obstructions in the well?	Company Control	
Description of well bottom conditions (soft, haze, etc.):		
Inspection Date: 6 30 V Inspected by: Cohr	v Miller	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	· · · · · · · · · · · · · · · · · · ·
Well Number: Location/Functional Area:	NACA
Screened Open-Hole Well Type:	Monitor Interval Length:1
Flush-mount/Above-ground Completion	
Reported Construction Depth: 27.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	K Rust on Pock
Is a concrete pad installed?	<b>W</b>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	and the second s
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	8
Describe labeling: Medallinu on coff	Sterrel Dr Will
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 21,7	
Thickness of sediment accumulation (reported depth-present me	easurement): -0.30
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	
2000 patent of well bottom conditions (soft, flaid, etc.).	
Inspection Date: 6-30-68 Inspected by: 10 has	111

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: mw-118 Location/Functional Area: MACA	
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type: Monitor Interval Length:	ft
Flush-mount Above-ground Completion:	``
Reported Construction Depth: 34.6 ft BGS or BTOC (chose one only)	
Well-Head Completion: INSPECTION ITEMS  YES NO N/A COMMENTS	3
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	pusto
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	AND THE PARTY OF T
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	**************************************
Is the well labeled with the correct number?	
Describe labeling: Meskallin an cap, Schil on wall	
Security:	THE PARTY OF THE P
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 2489	
Thickness of sediment accumulation (reported depth-present measurement):	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
122 A	This of the second seco
Inspection Date: 6-30-60 Inspected by: 50/00 //////	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:		
Well Number: Location/Functional Area:	MBS	
Casing Type: Steel Stainless Steel VPVC	,	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 31.5 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	Formand	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?	U under water	
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct,number?		
Describe labeling: Stencil on well		
Security:	and and a second contract of the contract of t	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:		
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 3/1/1	<u></u>	
Thickness of sediment accumulation (reported depth-present me	asurement): +.40	
Are there an obstructions in the well?		
Description of well bottom conditions (soft hard, etc.):		
	0.01	
Inspection Date: 6-30-08 Inspected by: 10 hrs	Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	mnc
Well Number: Location/Functional Area:	739
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion:	
Reported Construction Depth: 30.7 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	** Committee of the Com
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	X L water In youngly
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	TO A
Is the well labeled with the correct number?	X D C
Describe labeling: Ganger Tan on Marie Si	tencil on well
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $305$	<u></u>
Thickness of sediment accumulation (reported depth-present me	asurement): +0.18
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	l l

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-003 Location/Functional Area:	MBS
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: O ft
Flush-mount/Above-ground Completion	
Reported Construction Depth: 30.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?  Is the concrete apron cracked or deteriorated? Frost Heaving?  Identification:  Is the well labeled with the correct number?	X X X X X X X X X X X X X X X X X X X
Describe labeling:	
Does the well have a cap or lid? Does the well have a weatherproof lock? Does the lock secure well? Does the inner casing have a water-tight cap?  Down-hole Condition: Is the well casing bent, corroded, or broken (at the surface?) Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point:  Thickness of sediment accumulation (reported depth-present measure there an obstructions in the well?  Description of well bottom conditions (soft hard, etc.):	
Inspection Date: 6/30/2008 Inspected by: John	miller

· · · · · · · · · · · · · · · · · · ·	Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:  Well Number:	MBS	
Casing Type: X Steel Stainless Steel X PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: 0 ft	
Flush-mount/Above-ground Completion:)	· ·	
Reported Construction Depth: 37.0 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS	Brook (Grosse Grie Grity)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:  Number of Guard posts at well:  Are the posts positioned to prevent collision damage to the well?  Are any of the posts damaged or degraded?  Is a concrete pad installed?  Is the pad cracked or deteriorated? Frost Heaving?  Is steel protective casing installed?  Does the protective casing have a weep hole?  Does vegetation around the well need clearing?  Flush-mount completion:  Is the traffic cover securely bolted to the flush-mount box?  Does the well have a flush-mount box?  Is the traffic cover cracked or broken?	Some evision under	
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification: Is the well labeled with the correct number? Describe labeling:		
Security:  Does the well have a cap or lid?  Does the well have a weatherproof lock?  Does the lock secure well?  Does the inner casing have a water-tight cap?		
Down-hole Condition:  Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)  Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 26,72 Thickness of sediment accumulation (reported depth-present measurement point: 26,72 Are there an obstructions in the well? Description of well bottom conditions (soft, hard), etc.):		

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	Km so (	
Well Number: MW-005 Location/Functional Area:	MBS	
Casing Type: Steel Stainless Steel PVC		
Screened/Open-Hole Well Type:	Monitor Interval Length: (7) ft	
Flush-mount/Above-ground Completion:		
Reported Construction Depth: 30.2 ft BGS or	BTOC (chose one only)	
	ET BY CO (Choose one ormy)	
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?		
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Stucil on well	<del>/</del>	
Security:	neren arrenon errora eta eta eta eta eta eta eta eta eta et	
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		
Down-hole Condition:	The second secon	
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 39/6	1	
Thickness of sediment accumulation (reported depth-present me	easurement): +0.01	
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):		
	rando mar	
Inspection Date: Inspected by:		

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST		
WELL INFORMATION:	MBS	
Well Number: <u>MW-006</u> Location/Functional Area:	11177	
Casing Type: Steel Stainless Steel PVC		
Screened Open-Hole Well Type:	Monitor Interval Length: [O ft	
Flush-mount/Above-ground Completion:>		
Reported Construction Depth: 28.2 ft BGS or	BTOC (chose one only)	
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A COMMENTS	
Above-ground completion:		
Number of Guard posts at well:		
Are the posts positioned to prevent collision damage to the well?	* needs pantal	
Are any of the posts damaged or degraded?	<u> </u>	
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?		
Does the protective casing have a weep hole?	<u>x</u>	
Does vegetation around the well need clearing?		
Flush-mount completion:		
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		
Is the well labeled with the correct number?		
Describe labeling: Stency led		
Security:		
Does the well have a cap or lid?		
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?  Down-hole Condition:		
ave.		
Is the well casing bent, corroded, or broken (at the surface?)  Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 28,30		
Thickness of sediment accumulation (reported depth-present me		
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.):	Murn ———	
Inspection Date: 6-50-08 Inspected by: John	Miller	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MU-DO6 Location/Functional Area:	lal
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: <u>d</u> O ft
Flush-mount/Above-ground Completion: Above Grown	d
(1) (1)	BTOC (chose one only)
	Broc (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 나	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X peeling paint
Is a concrete pad installed?	× × ×
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing installed?  Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
No.	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
1	
Is the well easing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?  Measured depth of the well from measurement point: 41.37	
Measured depth of the well from measurement point: 41.37 Thickness of sediment accumulation (reported depth-present measurement)	
Are there an obstructions in the well?	Asurement).
Description of well bottom conditions (soft, hard, etc.):	)
(25.1)	<u> </u>
Inspection Date: 6/30/700% Inspected by: MS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-007 Location/Functional Area: K	CQL
Casing Type: Steel Stainless Steel ✓ PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
AI C	Monte Mercan Longen
Reported Construction Depth: 18.2 ft BGS or	BTOC (chose one only)
Well-Head Completion: INSPECTION ITEMS	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	K X M
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	<u> </u>
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	and the second s
Is the well labeled with the correct number?	
Describe labeling:	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.70	
Thickness of sediment accumulation (reported depth-present mea	asurement): $-0.50$
Are there an obstructions in the well?	X
Description of well bottom conditions (soft, hard, etc.): Had	
Inspection Date: 6/30/2008 Inspected by: MB	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-008 Location/Functional Area:	Ral
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alarc Ground	
Reported Construction Depth: 18.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	Z z z z z z z z z z z z z z z z z z z z
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	×
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	<del></del>
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:	anticide transference and the control of the contro
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 18.74	
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>~0.2</u> 4
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
Inspection Date: 6/30/2008 Inspected by: iMS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-009 Location/Functional Area:	RQL
Casing Type: Steel Stainless Steel PVC	
	Manitan Internal Leaveston 10
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 19.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	от труго (1909)
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u>K</u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
is the well labeled with the correct number?	K
Describe labeling: Paint and Tag	
Security:	мен менения на принципального принципального в принц
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	<u> </u>
Measured depth of the well from measurement point: 18.63	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.23
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	· · · · · · · · · · · · · · · · · · ·
Inspection Date: 6/30/2009 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-010 Location/Functional Area:	RQL
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 100 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 35.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 2	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	x peeling paint
Is a concrete pad installed?	X J
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	none seen
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	K
Describe labeling: Paint and Tag	
Security:	AND THE RECORD WATER CORP. THE PROPERTY OF THE
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 35.1	<del>-</del>
Thickness of sediment accumulation (reported depth-present me	easurement):O.O.Q.
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<del>\</del>
Inspection Date: 6/30/200% Inspected by: Mg	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-DII Location/Functional Area:	RQL
Casing Type: Steel Stainless Steel V PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: $ao$ ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 34.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Deelins paint
Is a concrete pad installed?	×
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	หรองโทยที่ที่ และเมื่อง และ เพื่องการเราะห์ และในการเกราะหรือการเล่า เพื่องการหรายการเกราะหรอบการและ การเกราะห เกราะหรอบการเกราะหรอบการเกราะหรอบการและ การเกราะหรอบการเกราะหรอบการเกราะหรอบการเกราะหรอบการเกราะหรอบการและ เพื
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint + Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	one di mana manda di mana mana mana mana mana mana mana man
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	×
Is a measurement point marked a the top of well casing?	X III
Measured depth of the well from measurement point: 35.43	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.83
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/3/2006 Inspected by: MS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-012 Location/Functional Area:	Ral
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Corand	<u> </u>
Reported Construction Depth: 32.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	417 Сайын Сайтий кайтын көтемий көмий
Number of Guard posts at well: 4	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	xpeeling pount
Is a concrete pad installed?	K
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	en de la companya de
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	K
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 32.75	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.25
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: <u>L/30/2009</u> Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: Mw-ロロ Location/Functional Area:	RaL
Casing Type: Steel Stainless Steel K PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Algore Ground	
Reported Construction Depth: 36.76 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	. !
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	relingpaint
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	X   _
Describe labeling: Pain++Tag	
Security:	Commence of the second of the
Does the well have a cap or lid?	[X]
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	×
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	K
Measured depth of the well from measurement point: 36.55	
Thickness of sediment accumulation (reported depth-present me	asurement): <u>+0.05</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	1
Inspection Date: 6/20/2008 Inspected by: MS	та выполняем в на постоящим принципанном на достоя в на поста на на принципанном на принципанном на поста на на На принципанном на поста поста на принципанном на на поста на на поста на на принципанном на принципанном на на

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-014 Location/Functional Area:	RQL
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Alone Ground	
Reported Construction Depth: 31.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	2
Are any of the posts damaged or degraded?	x peeling pount
Is a concrete pad installed?	X ' ' ' '
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Pamt + Tag	
Security:	THE RESIDENCE OF THE PROPERTY
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 31.25	
Thickness of sediment accumulation (reported depth-present mea	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
1	
Inspection Date: 6/30/2008 Inspected by: MS	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: _MW-015 Location/Functional Area:	Ral
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
<u> </u>	
Reported Construction Depth: 41.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 닉	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Deeling munt
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	×
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: $42.11$	-0.51
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?  Description of well bottom conditions (soft, hard, etc.):	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-016 Location/Functional Area:	RQL
Casing Type: Steel Stainless Steel X PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 41.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X rust peeling pain
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	<u> </u>
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	×
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	X
Measured depth of the well from measurement point: 41.75	
Thickness of sediment accumulation (reported depth-present me	easurement): - 0 . 15
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 6/30/2008 Inspected by: MS	

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Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-017 Location/Functional Area:	RQL
Casing Type: Steel Stainless Steel K PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: /O ft
Flush-mount/Above-ground Completion: Above Coround	
Reported Construction Depth: 32.5 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	37
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X rusty peelingpain
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	×
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	one and the state of the state
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	K
Measured depth of the well from measurement point: 32.95	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.35
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
	gorganica de alcabata anno como como que por por porto de antico d
Inspection Date: 1/30/2004 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-005 Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: ft
Flush-mount/Above-ground Completion: Above Ground	-
Reported Construction Depth: 21.1 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	× nard to see
Does vegetation around the well need clearing?	X I I I I I I I I I I I I I I I I I I I
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tra	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	and and an artist and an artist and an artist and artist artist and artist artist and artist artin artist artist artist artist artist artist artist artist artist
Is the well casing bent, corroded, or broken (at the surface?)	X
Is the well casing loose, (at the surface?)	X
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 21.24	
Thickness of sediment accumulation (reported depth-present mea	asurement): <u>- 0.13</u>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: MB	

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Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW - 006 Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length:lo ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 30.4 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X _
Is a concrete pad installed?	X I
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	A CONTRACTOR OF THE PROPERTY O
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and tag	
Security:	CONTRACTOR OF THE PROPERTY OF
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: Zo.Z	7
Thickness of sediment accumulation (reported depth-present me	<del></del>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
	NORTHWAND OF THE PROPERTY OF T
Inspection Date: 7/1/2007 Inspected by: M3	·

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: Mw-007 Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel V PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 3103 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	X
Are any of the posts damaged or degraded?	X no concrete un tops
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Inside Posts
Flush-mount completion:	unum dan
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	X
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point:	)
Thickness of sediment accumulation (reported depth-present me	asurement): _0.Z.0
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hwd	
Inspection Date: 7/1/2007 Inspected by: Mß	onte a kidentini kantenia era antan monata era antan eraka ere eraka antan antan antan antan antan antan antan
mapeolion bale. 11 000 7 mapeoled by. 118	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-∞S Location/Functional Area: U	10186
<del></del>	
Casing Type: Steel Stainless Steel K PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Caronal	· · · · · · · · · · · · · · · · · · ·
Reported Construction Depth: 21.0 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 3	
Are the posts positioned to prevent collision damage to the well?	[X]
Are any of the posts damaged or degraded?	no concrete un tops
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	X Inside Posts
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	Z Z
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 20.96	<u> </u>
Thickness of sediment accumulation (reported depth-present mea	asurement): +0.04
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2018 Inspected by: M	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-999 Location/Functional Area:	WB6
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	_ Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: 04 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:3	
Are the posts positioned to prevent collision damage to the well?	×
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	K
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	The Administration of the Control of
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling:Yaun+	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?  Does the lock secure well?	
I service of the serv	
Does the inner casing have a water-tight cap?  Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing bent, confoded, or broken (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 74.44	
Thickness of sediment accumulation (reported depth-present mea	<del>`                                    </del>
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2006 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-010 Location/Functional Area: L	NB6
Casing Type: Steel Stainless Steel PVC	
Screened Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Coround	
Reported Construction Depth: 23.6 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	$a_{1} = a_{2} + a_{3} + a_{4} + a_{5} + a_{5$
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	N K N
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	то в потом на положения потом на простоя на простителности на простителност на простителност на простителност Потом на применения простителност на простителност на простителност на простителност на простителност на прости
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	X
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	×
Measured depth of the well from measurement point: 23.4	<del></del>
Thickness of sediment accumulation (reported depth-present me	asurement): ±0.12
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2002 Inspected by: MS	
moposida by	

Ravenna Army Ammunition WELL INSPECTION CHECK		
WELL INFORMATION:		
Well Number: MW-011 Location/Functional Area:	WBG	
Casing Type: Steel Stainless Steel K PVC		
		h
Screened/Open-Hole Well Type:	Monitor Interval Le	ength: C t
Flush-mount/Above-ground Completion: Above Grand		
Reported Construction Depth: 21.0 ft BGS or	BTOC (cho	se one only)
INSPECTION ITEMS		
Well-Head Completion:	YES NO N/A	COMMENTS
Above-ground completion:	nazana menentra salam terseman menanca salam salam tahun dalam hadi anti-dalam terseta dalam terseta dalam ter	
Number of Guard posts at well:3		
Are the posts positioned to prevent collision damage to the well?		
Are any of the posts damaged or degraded?		
Is a concrete pad installed?		
Is the pad cracked or deteriorated? Frost Heaving?		
Is steel protective casing installed?	×	
Does the protective casing have a weep hole?		•
Does vegetation around the well need clearing?		MB Thoms
Flush-mount completion:	CAMMINISTER CONTROL OF THE CONTROL O	en andre service e en
Is the traffic cover securely bolted to the flush-mount box?		
Does the well have a flush-mount box?		
Is the traffic cover cracked or broken?		
Is the concrete apron cracked or deteriorated? Frost Heaving?		
Identification:		**************************************
Is the well labeled with the correct number?		
Describe labeling: Paint		-
Security:		
Does the well have a cap or lid?	K	
Does the well have a weatherproof lock?		
Does the lock secure well?		
Does the inner casing have a water-tight cap?		***************************************
Down-hole Condition:		THE THE PROPERTY OF THE PROPER
Is the well casing bent, corroded, or broken (at the surface?)		
Is the well casing loose, (at the surface?)		
Is a measurement point marked a the top of well casing?		
Measured depth of the well from measurement point: 23.96		
Thickness of sediment accumulation (reported depth-present me	asurement): +0.0	24
Are there an obstructions in the well?		
Description of well bottom conditions (soft, hard, etc.): Mediu	m	

Well Number: MU-017 Location/Functional Area: W&C  Casing Type: Steel Stainless Steel PVC  Screened/Open-Hole Well Type: Monitor Interval Length: Flush-mount/Above-ground Completion: Move Corond  Reported Construction Depth: 32.0 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion:  Number of Guard posts at well:	
Casing Type: Steel Stainless Steel PVC Screened/Open-Hole Well Type: Monitor Interval Length: Flush-mount/Above-ground Completion: Move Coronal Reported Construction Depth: 32.0 ft BGS or BTOC (chose one only)  INSPECTION ITEMS Well-Head Completion: YES NO N/A COMMENTS  Above-ground completion:	
Screened/Open-Hole Well Type:  Flush-mount/Above-ground Completion:  Reported Construction Depth: 32.0 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion:  YES NO N/A COMMENTS	
Flush-mount/Above-ground Completion: Above Coround  Reported Construction Depth: 32.0 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion: YES NO N/A COMMENTS  Above-ground completion:	
Reported Construction Depth: 32.0 ft BGS or BTOC (chose one only)  INSPECTION ITEMS  Well-Head Completion:  YES NO N/A COMMENTS  Above-ground completion:	ft
Well-Head Completion:  INSPECTION ITEMS  YES NO N/A COMMENTS  Above-ground completion:	
Well-Head Completion: YES NO N/A COMMENTS  Above-ground completion:	
Above-ground completion:	
Number of Guard posts at well:	infainte et interes anno en
Number of Coura pools at Well:	
Are the posts positioned to prevent collision damage to the well? X Deed Paint	
Are any of the posts damaged or degraded?	<del>~</del>
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	Manager Company
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	MEALWAND COMMISSION CO
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	therefore in the state of the s
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	*****************
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 31.75	
Thickness of sediment accumulation (reported depth-present measurement): +0.25	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	<del> </del>
Inspection Date: 7/1/201/3 Inspected by: MR	Secretarios de Cinema e e escentido de Cinema e e e e e e e e e e e e e e e e e e

Ravenna Army Ammunition WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-013 Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel K PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
	_ Workor titler var zerigtii t
Flush-mount/Above-ground Completion: Above Grand	
Reported Construction Depth: <u>239</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	×
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	<u> </u>
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	X
Does vegetation around the well need clearing?	
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	X
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 24.24	
Thickness of sediment accumulation (reported depth-present me	asurement): -0.34
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	l VV
Inspection Date: 7/1/2008 Inspected by: MS	

Ravenna Army Ammunition WELL INSPECTION CHECH	
WELL INFORMATION:	
Well Number: Mw-อเชี Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 25 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	2.00 (0.1000 0.10 0.11,)
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	× -
Does vegetation around the well need clearing?	X Turide Posts
Flush-mount completion:	
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.10	
Thickness of sediment accumulation (reported depth-present me	asurement):O.IO
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	
Inspection Date: 7/1/2008 Inspected by: M	

Ravenna Army Ammunition WELL INSPECTION CHEC	
WELL INFORMATION:	
Well Number: MW-015 Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: 10 ft
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 23.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well: 니	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	x hard to see
Does vegetation around the well need clearing?	
Flush-mount completion:	11 to 18 to
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	X
Describe labeling: Pain+	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23.63	
Thickness of sediment accumulation (reported depth-present me	easurement): +0.17
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.): Hard	
	тембетине и по выдышно уда до гороно и потрано на поражения протоков и потрано на потран
Inspection Date: 7/1/700% Inspected by: MS	·

Ravenna Army Ammunition	Plant
WELL INSPECTION CHECK	
WELL INFORMATION:	
Well Number: MW-016 Location/Functional Area: L	N BG
Casing Type: Steel Stainless Steel PVC	<del></del>
Screened/Open-Hole Well Type:	Monitor Interval Length:
Flush-mount/Above-ground Completion: Alore Ground	
Reported Construction Depth: <u>25.4</u> ft BGS or	BTOC (chose one only)
INSPECTION ITEMS	
Well-Head Completion:	YES NO N/A COMMENT
Above-ground completion:	Marriago Abangtina seraturah Seraturah (1975-1976-1976-1976-1976-1984) seraturah serat
Number of Guard posts at well: 니	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	Need pan
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?	
Flush-mount completion:	reamente in a compression de la compression del compression della compresion della compression della compression della compression della c
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint and Tag	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?)	
Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 25.32	
Thickness of sediment accumulation (reported depth-present me	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	

Ravenna Army Ammunition Plant WELL INSPECTION CHECKLIST	
WELL INFORMATION:	
Well Number: MW-017 Location/Functional Area:	WBG
Casing Type: Steel Stainless Steel X PVC	
Screened/Open-Hole Well Type:	Monitor Interval Length: し ft
	Wormon Interval Length it
Flush-mount/Above-ground Completion: Above Ground	
Reported Construction Depth: 33.9 ft BGS or	BTOC (chose one only)
INSPECTION ITEMS Well-Head Completion:	YES NO N/A COMMENTS
Above-ground completion:	
Number of Guard posts at well:	
Are the posts positioned to prevent collision damage to the well?	
Are any of the posts damaged or degraded?	X Need pant
Is a concrete pad installed?	
Is the pad cracked or deteriorated? Frost Heaving?	
Is steel protective casing installed?	
Does the protective casing have a weep hole?	
Does vegetation around the well need clearing?  Flush-mount completion:	\   hard to find
Is the traffic cover securely bolted to the flush-mount box?	
Does the well have a flush-mount box?	
Is the traffic cover cracked or broken?	
Is the concrete apron cracked or deteriorated? Frost Heaving?	
Identification:	
Is the well labeled with the correct number?	
Describe labeling: Paint	
Security:	
Does the well have a cap or lid?	
Does the well have a weatherproof lock?	
Does the lock secure well?	×
Does the inner casing have a water-tight cap?	
Down-hole Condition:	
Is the well casing bent, corroded, or broken (at the surface?)	
Is the well casing loose, (at the surface?) Is a measurement point marked a the top of well casing?	
Measured depth of the well from measurement point: 23,79	<u> </u>
Thickness of sediment accumulation (reported depth-present measurement): +0.12	
Are there an obstructions in the well?	
Description of well bottom conditions (soft, hard, etc.):	سال المسال
Inspection Date: 7/1/2008 Inspected by: M3	

## APPENDIX G

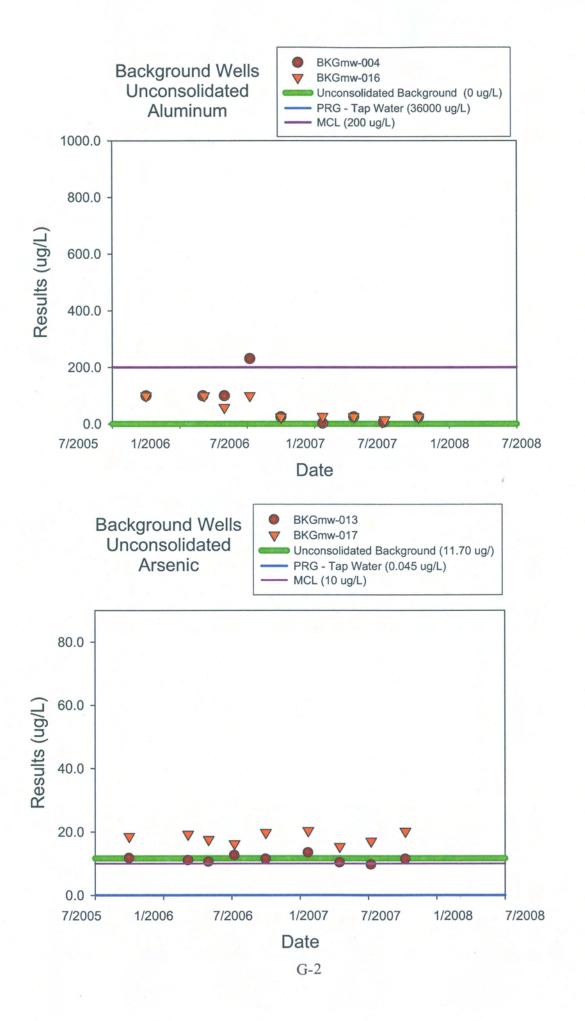
## TIME-TREND GRAPHS

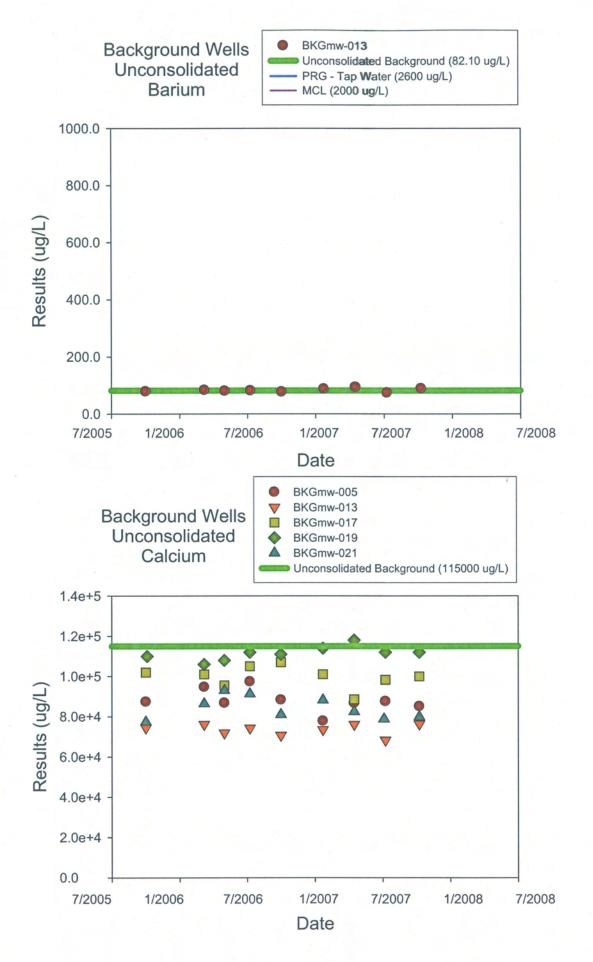
## **Contaminant Trends in Groundwater**

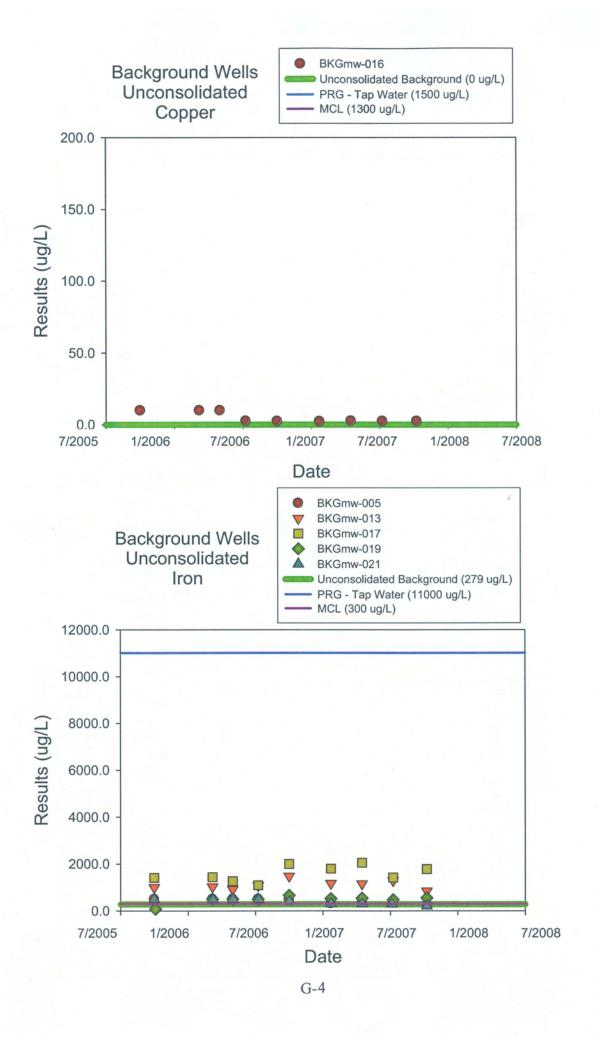
## Approach

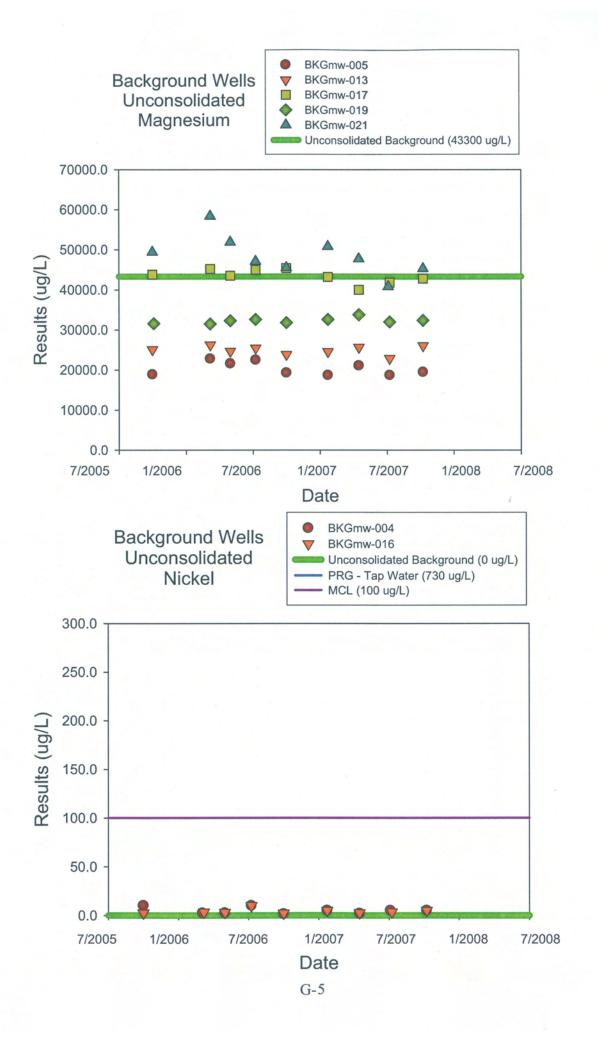
Time series graphs were generated to display the sampling results. The first sampling event included in the dataset is October 2005 and the last event is July 2008. The following guidelines were applied to produce the graphs:

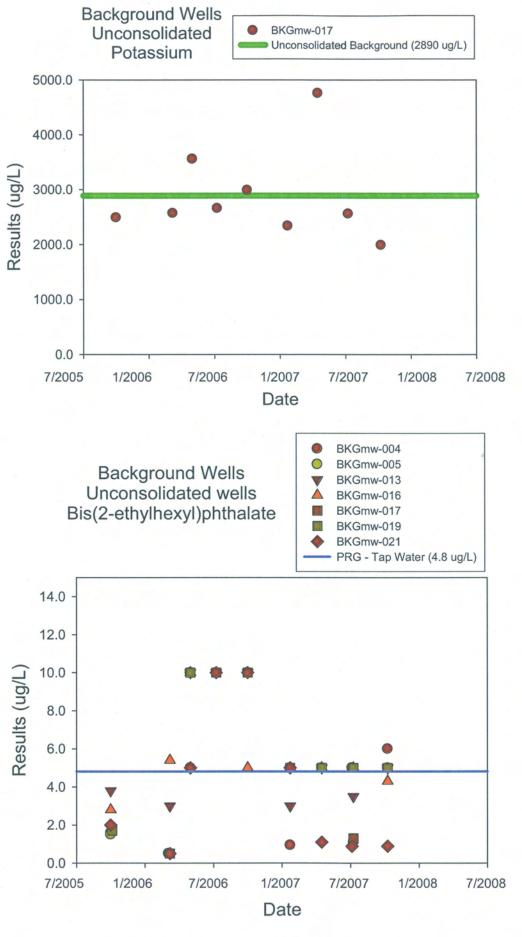
- 1. Only well locations with three or more detections (above background for inorganics) are graphed.
- 2. For background wells, inorganics with background values are screened and graphed. Any background well with a detected organic compound is also graphed.
- 3. Values reported as "non-detect" are shown as one-half the reporting limit.
- 4. The graphs are organized as follows:
  - a. By Site (alphabetically ordered beginning with Background Wells)
    - 1. Inorganic Compounds
    - 2. Organic Compounds

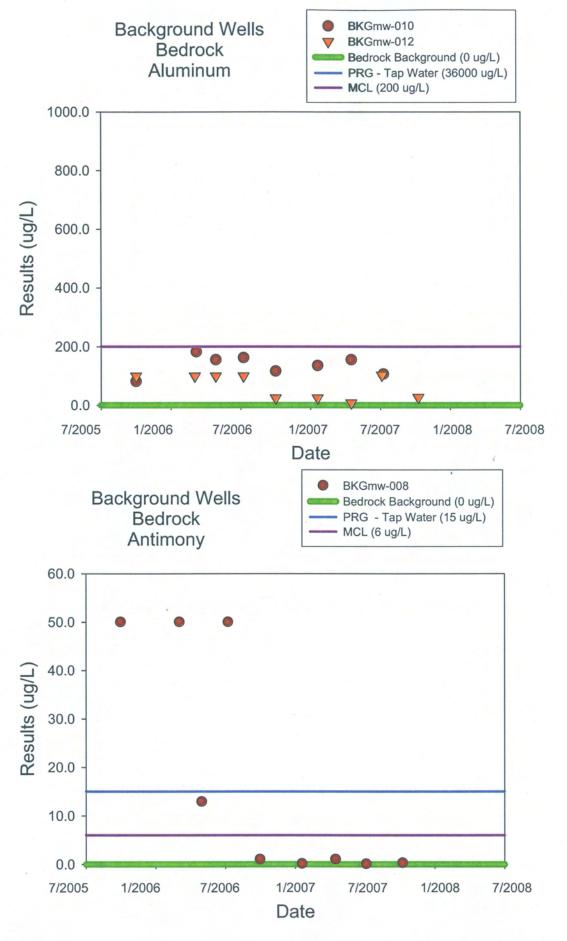


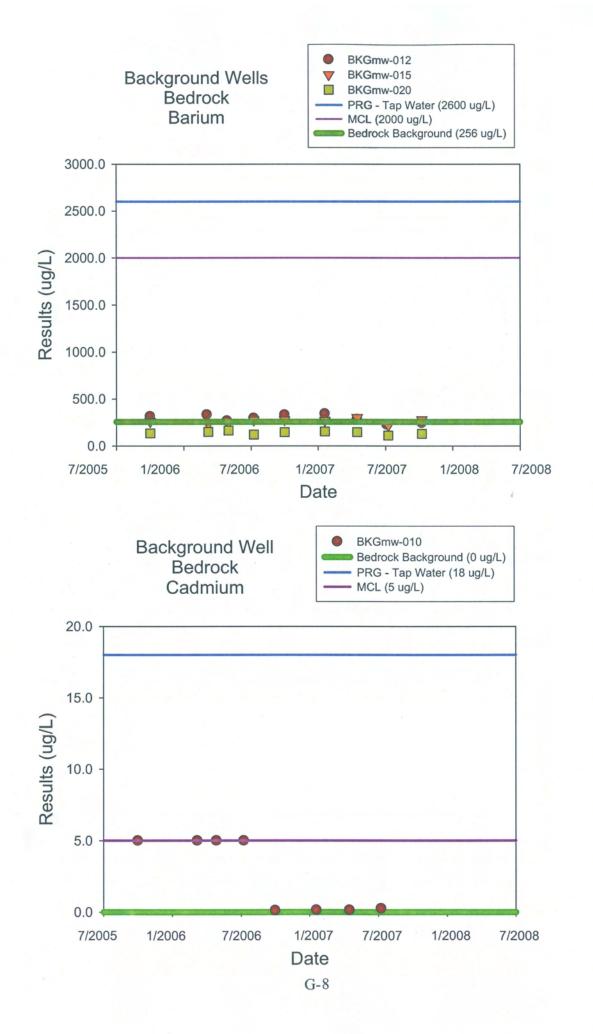


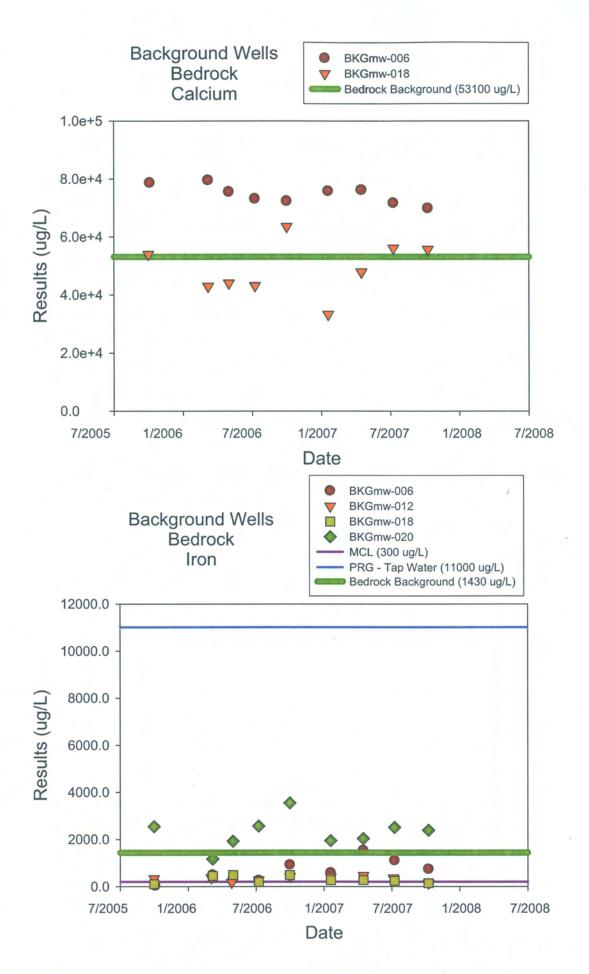


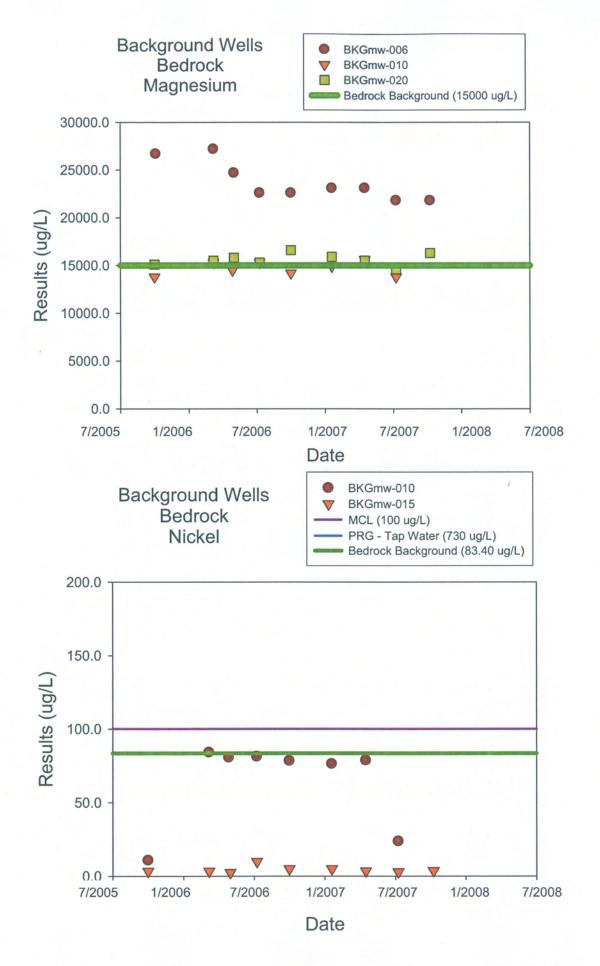


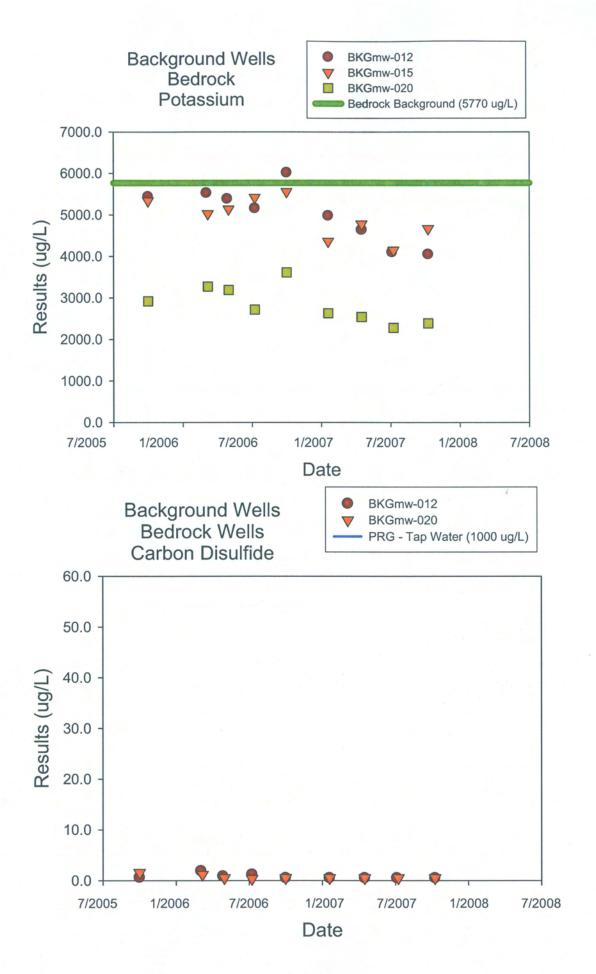


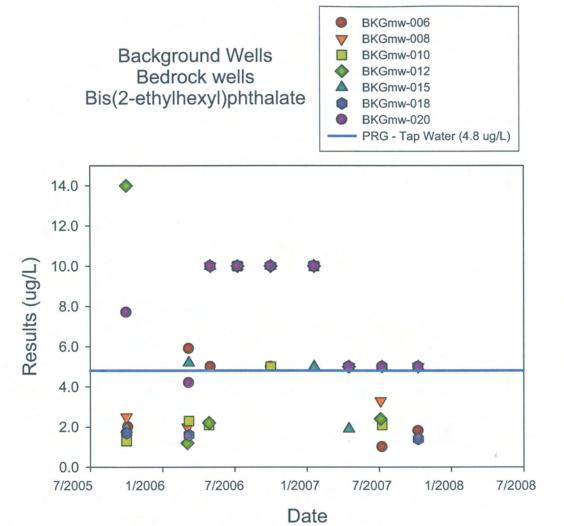


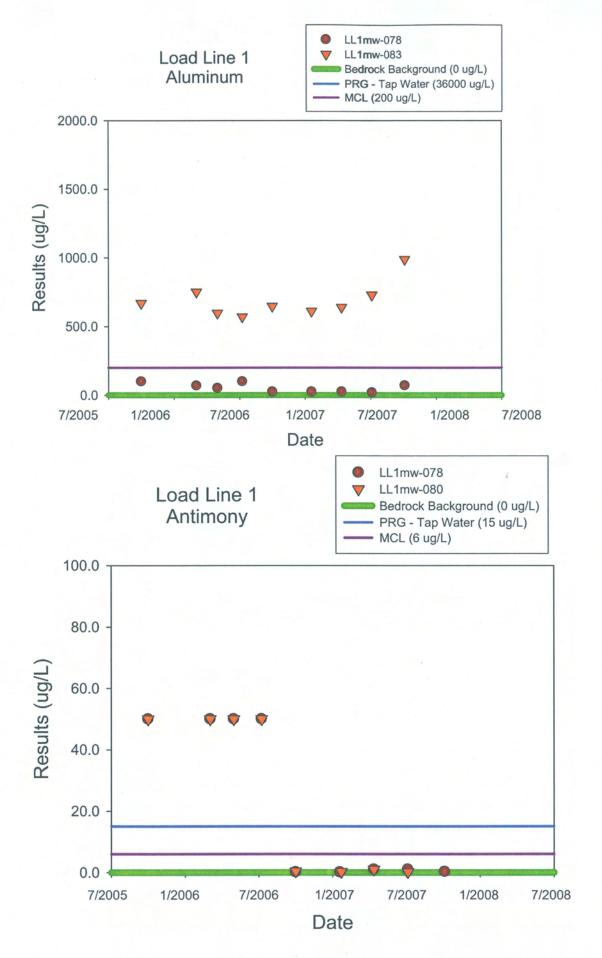


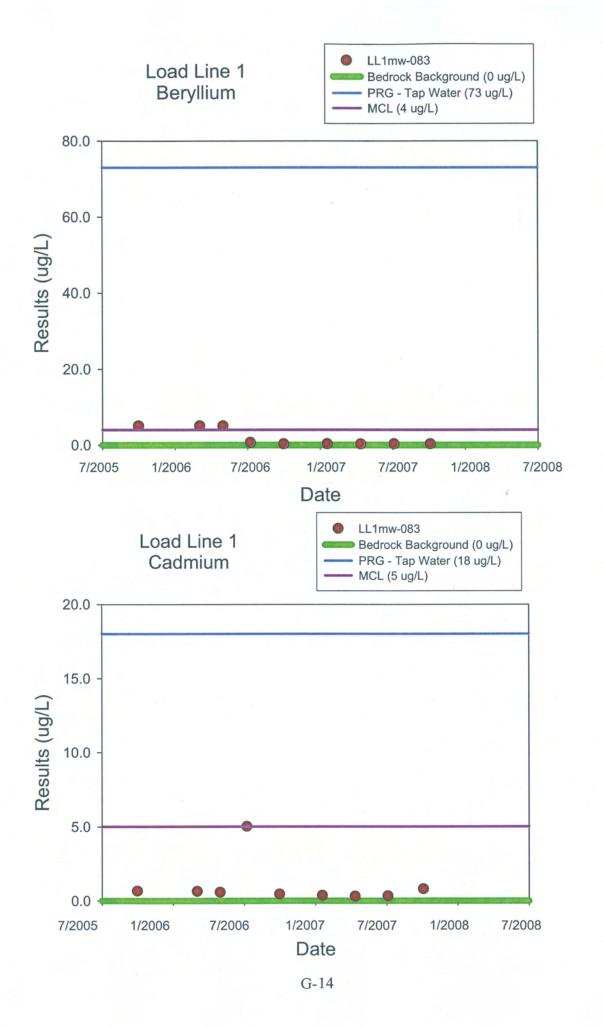


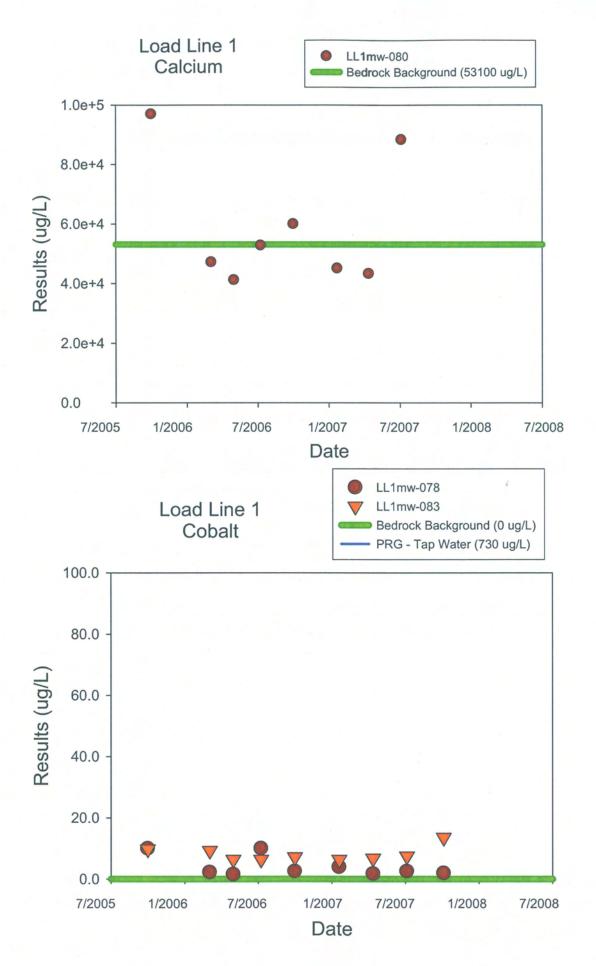


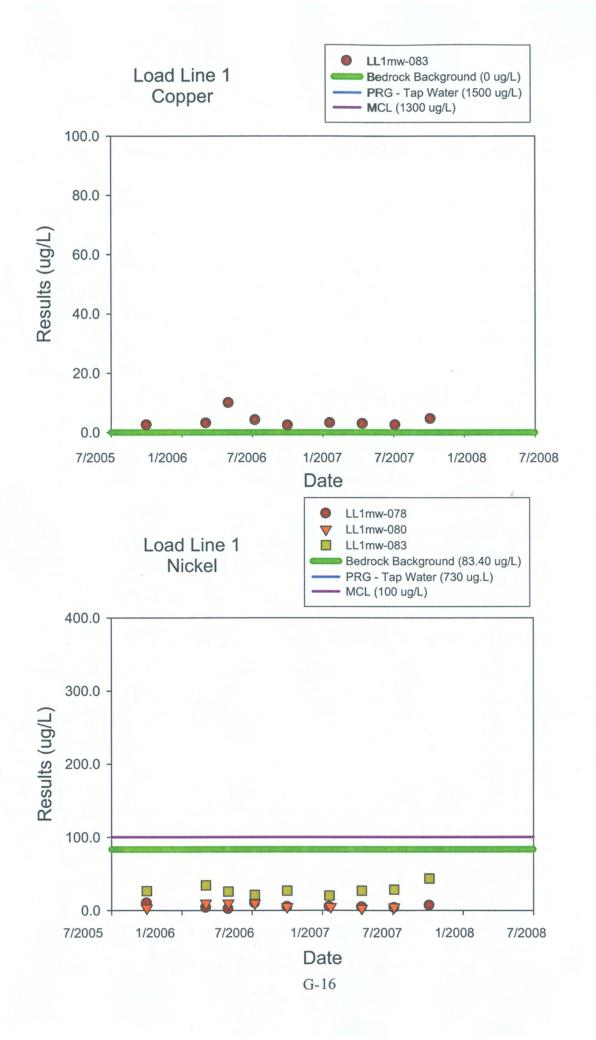


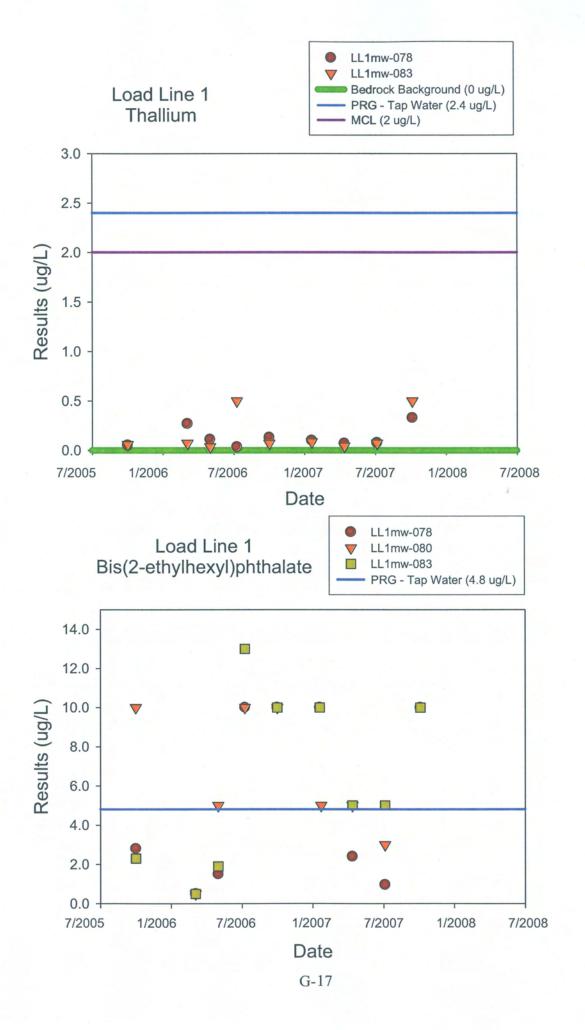


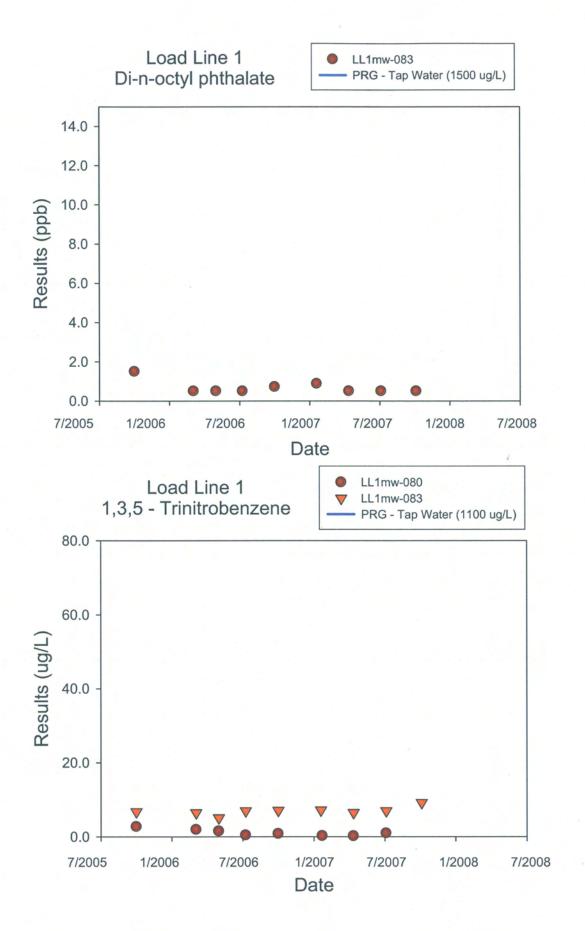


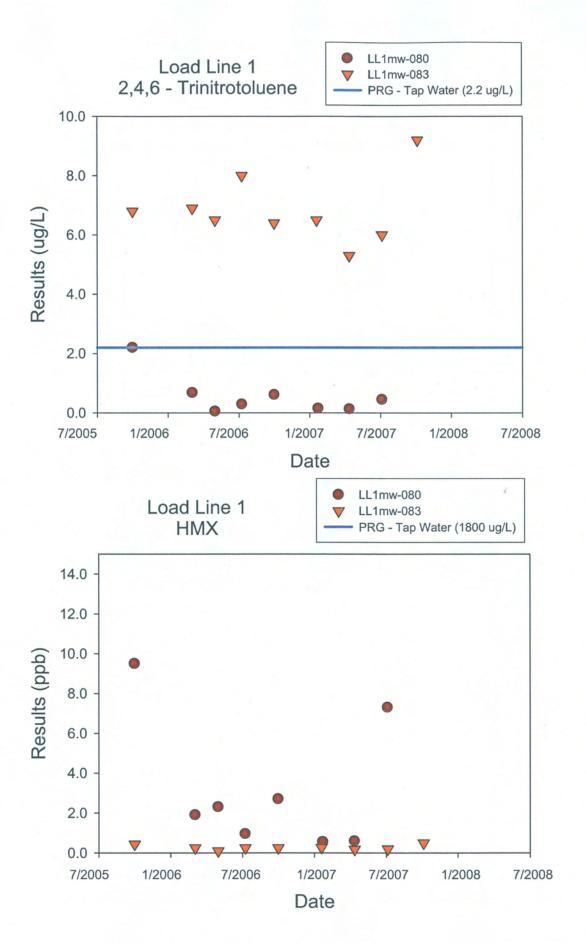


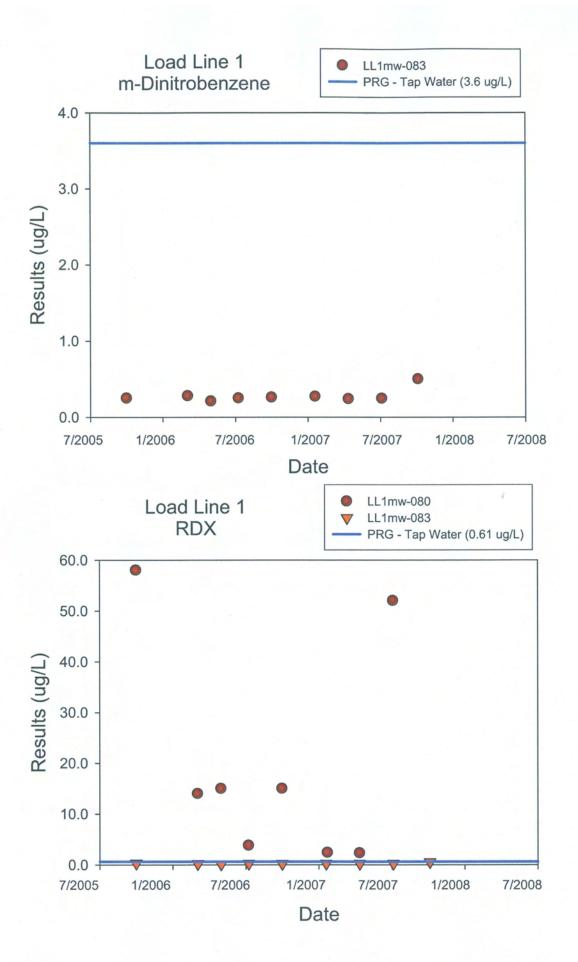


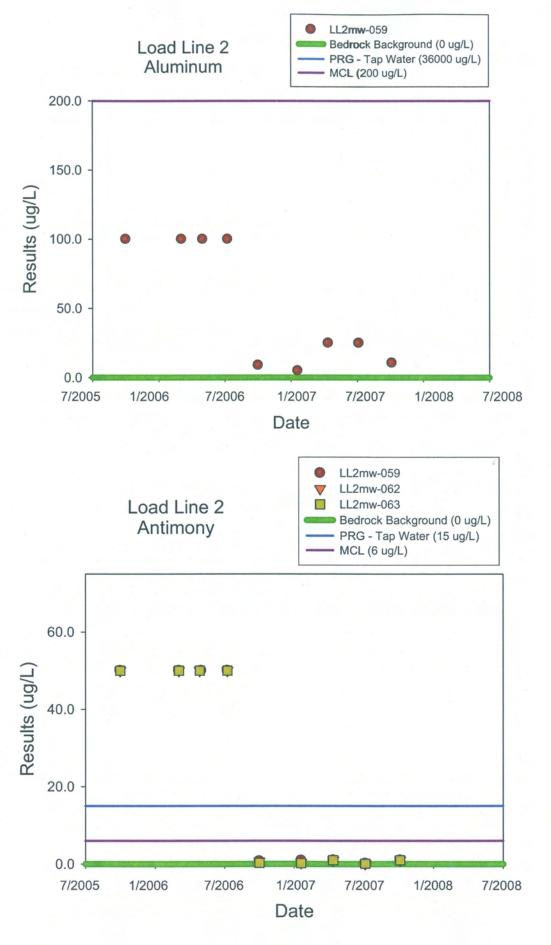


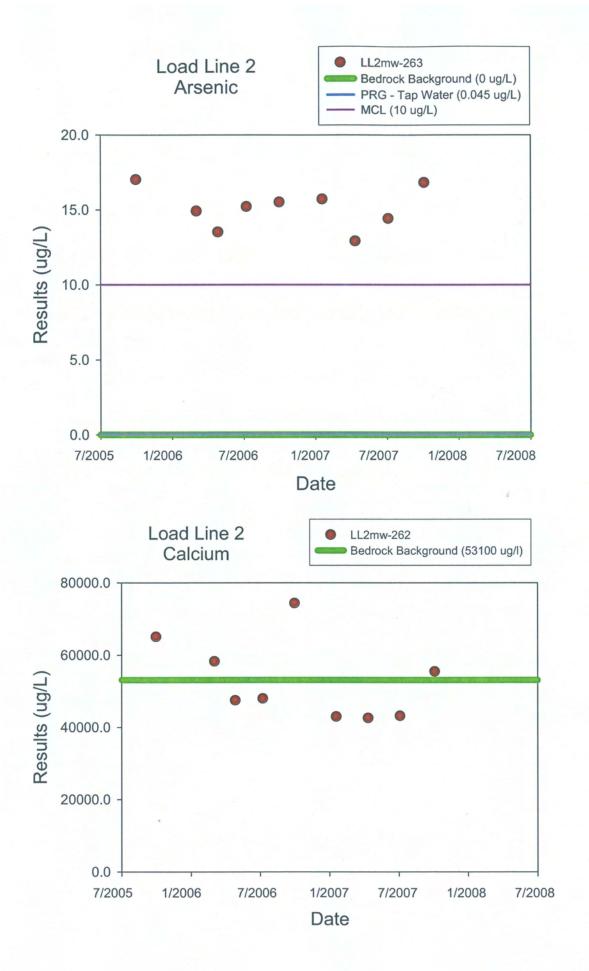


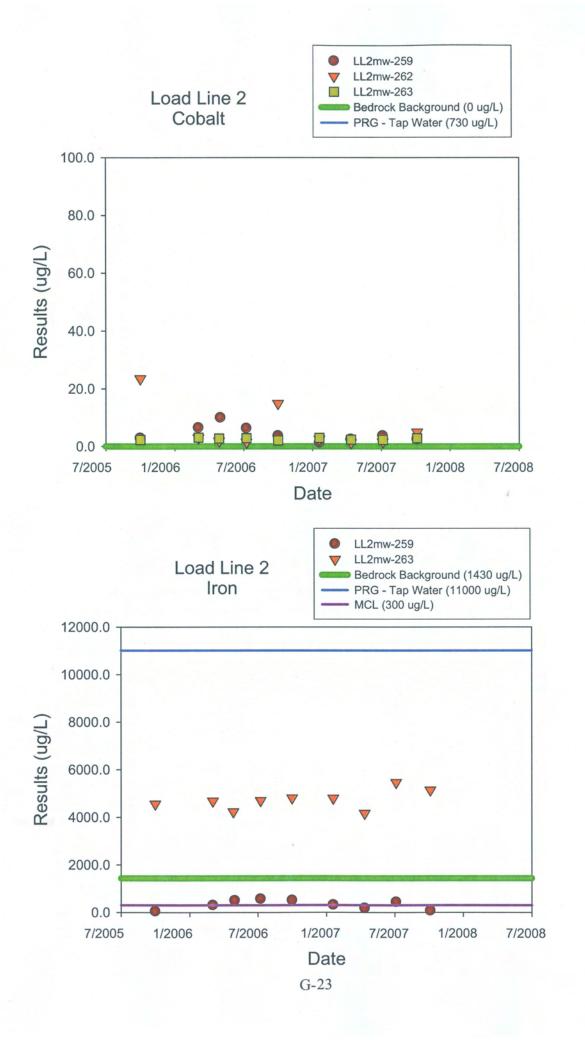


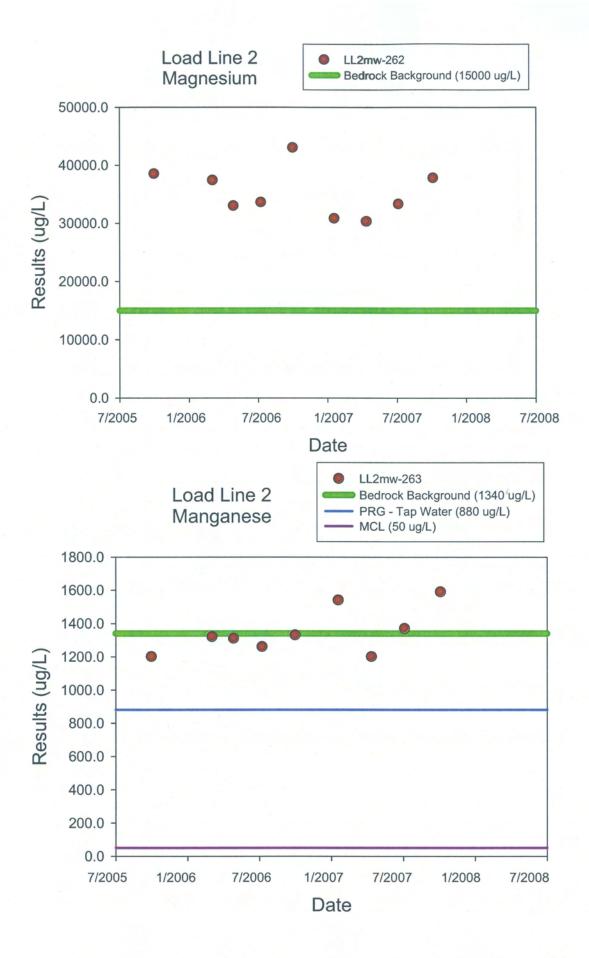


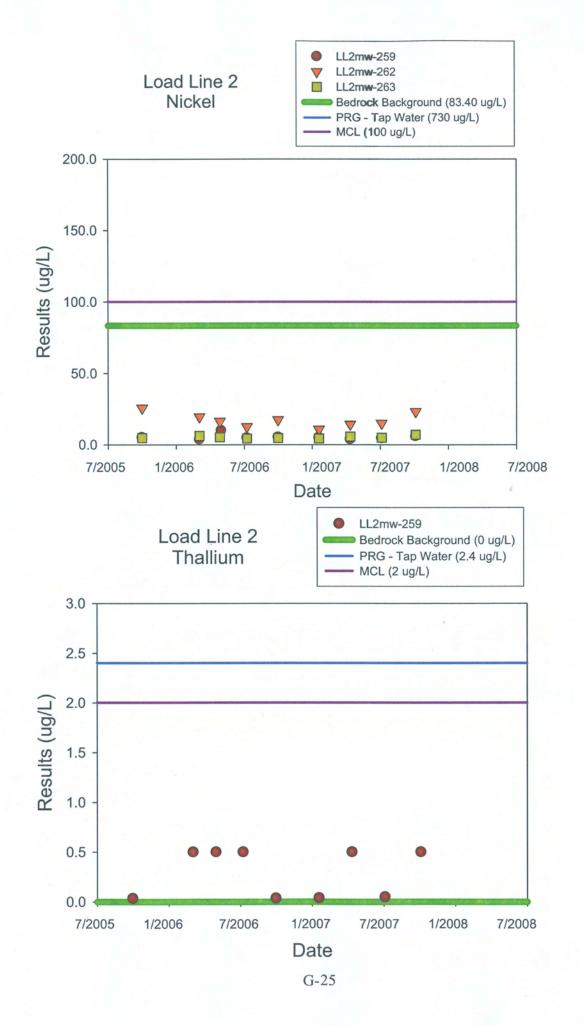


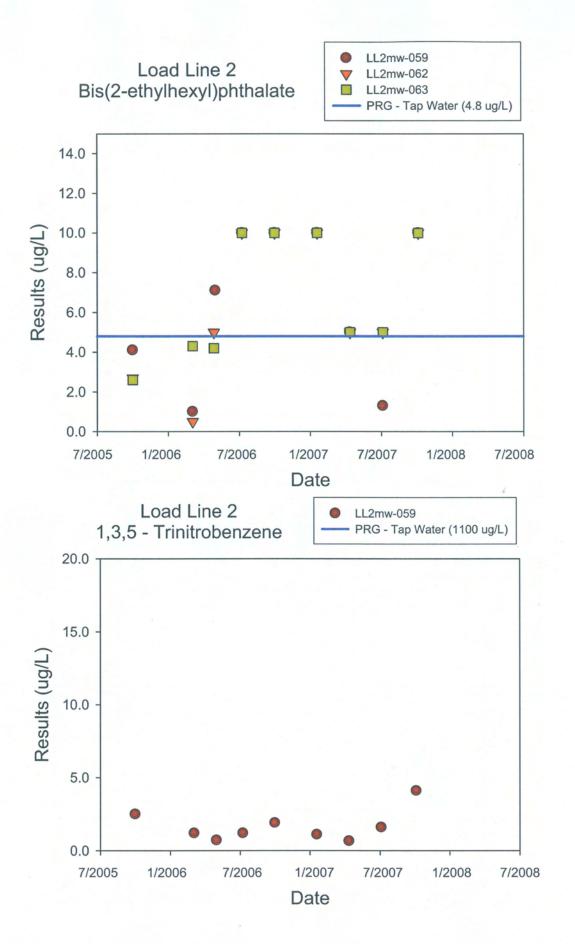


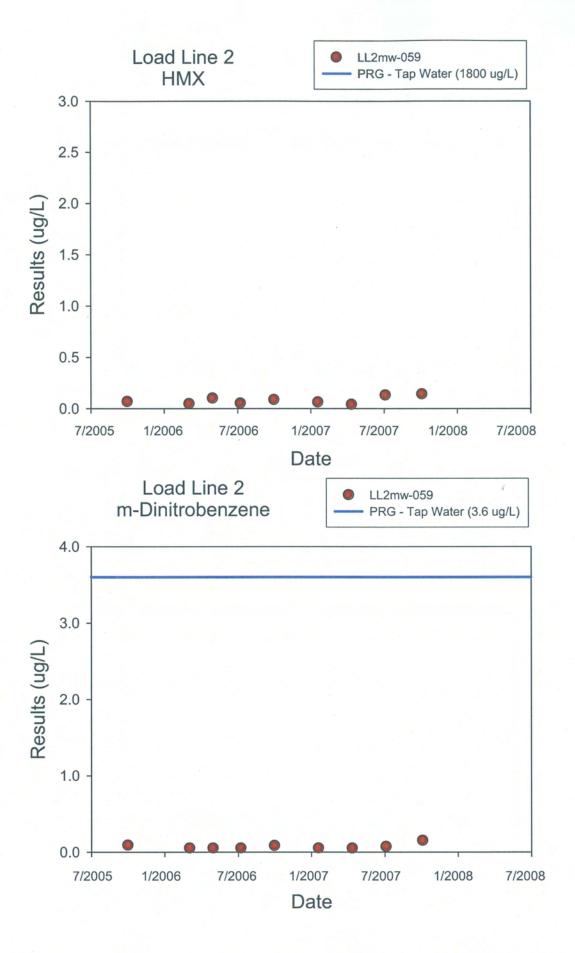


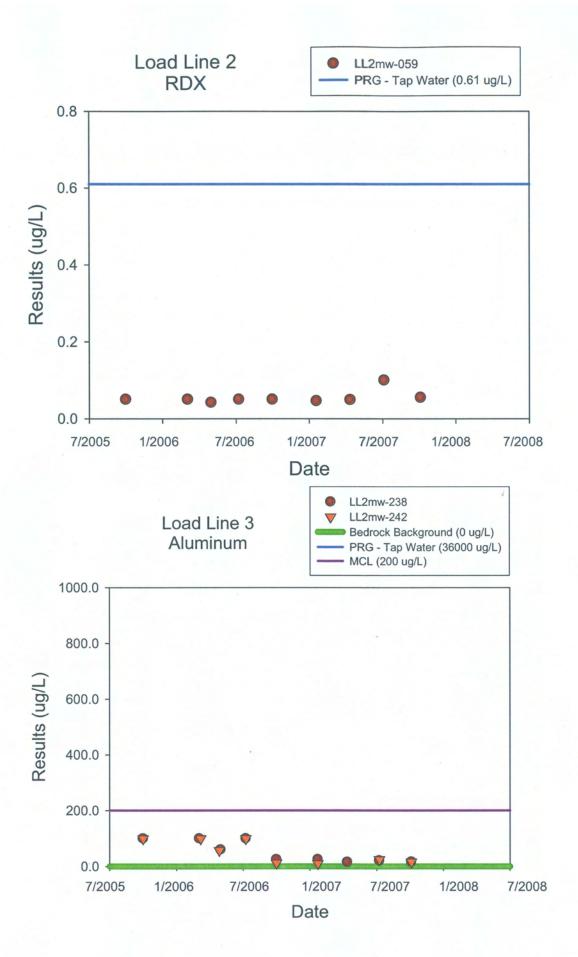


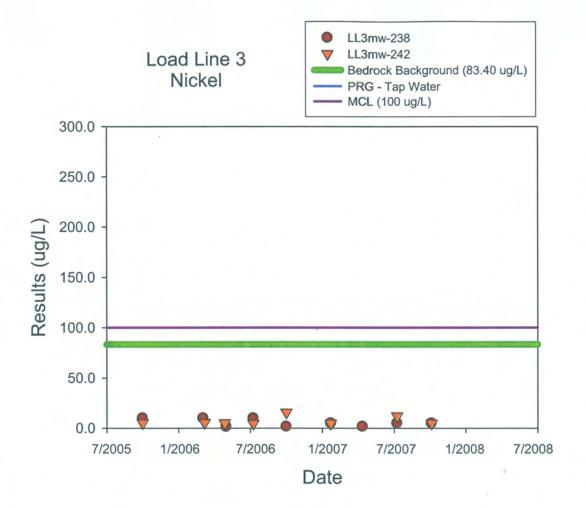


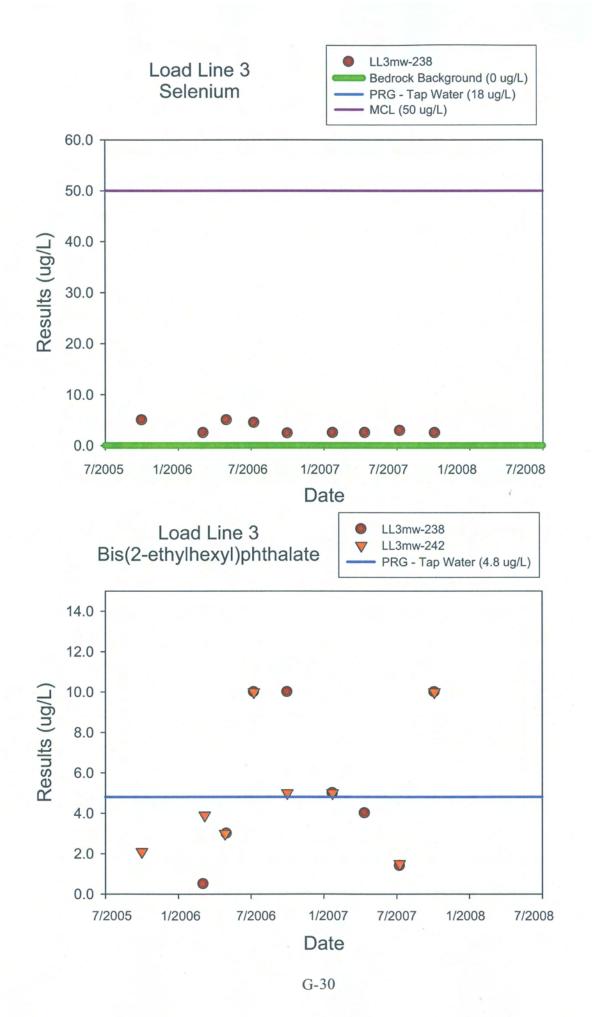


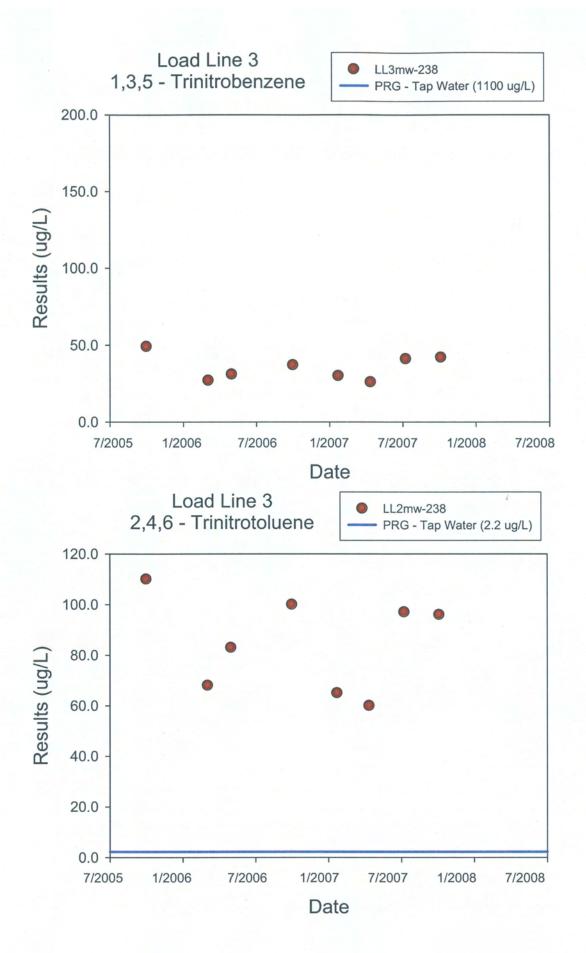


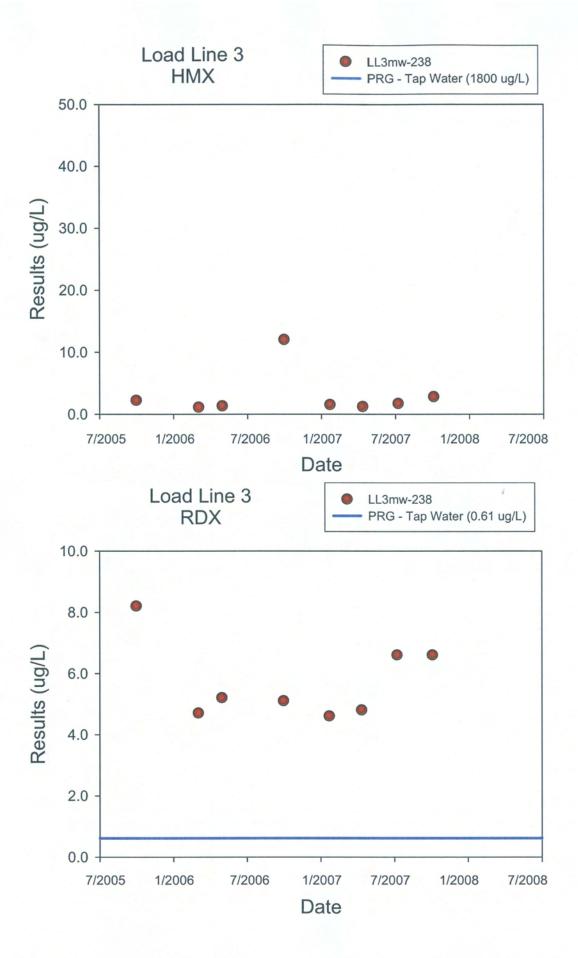


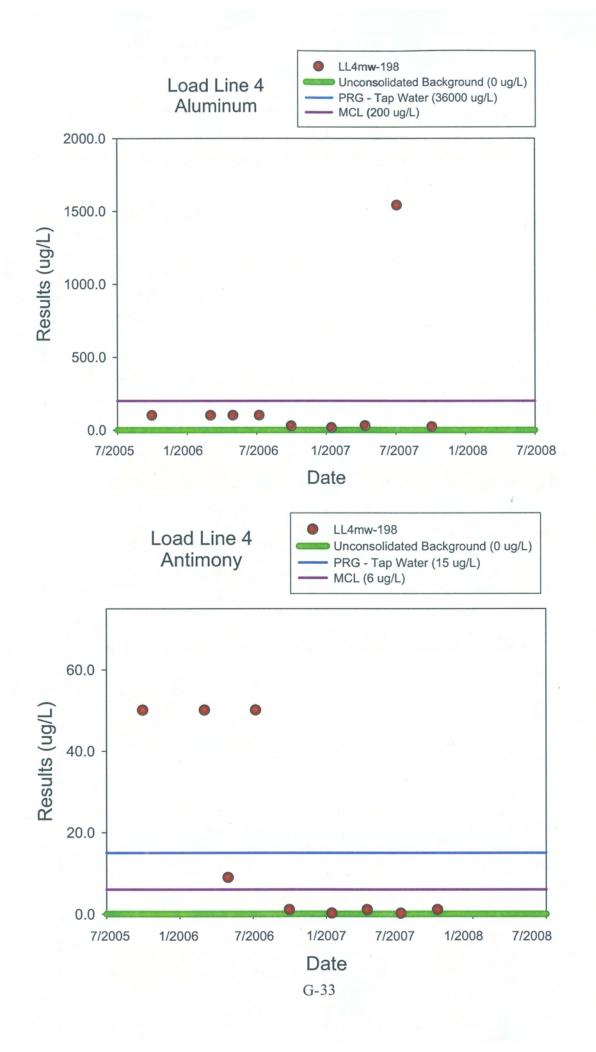


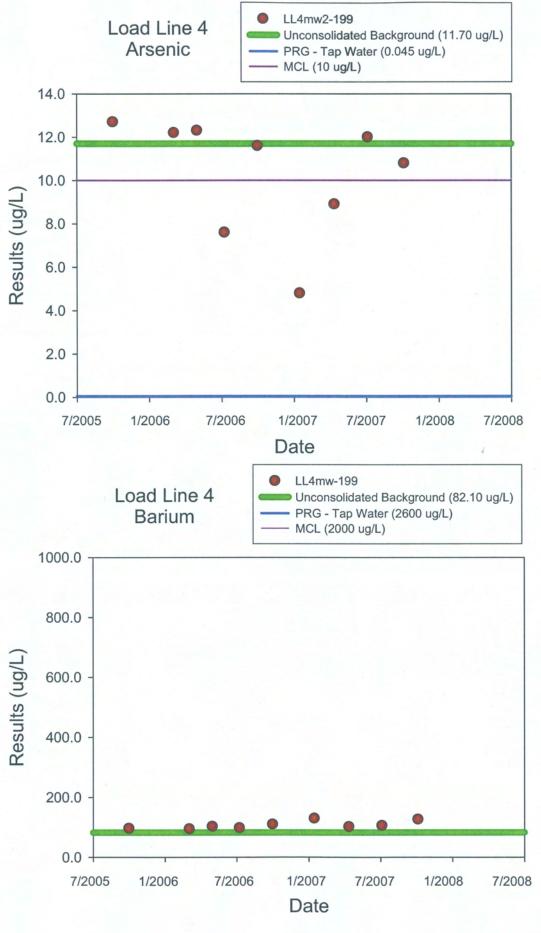


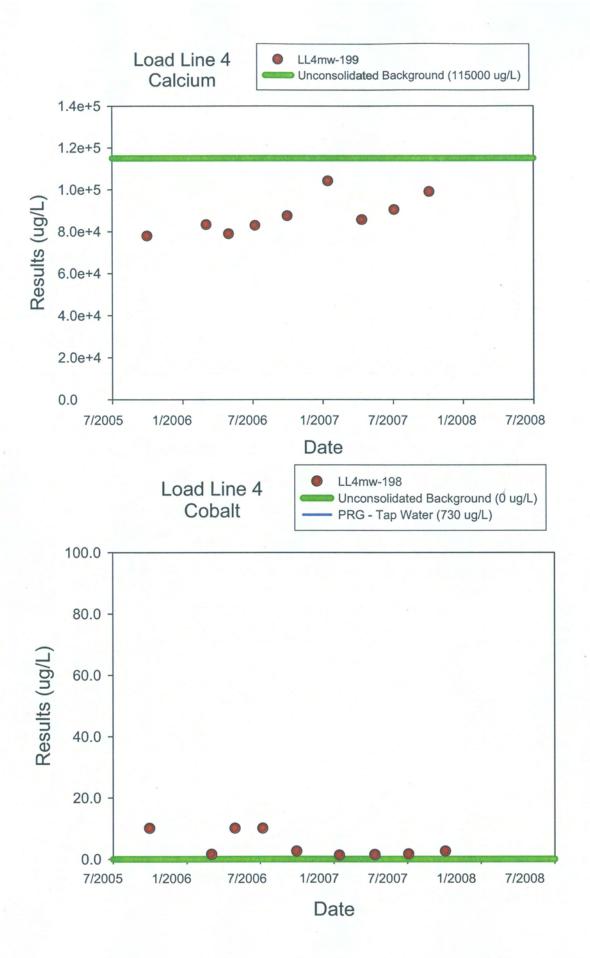


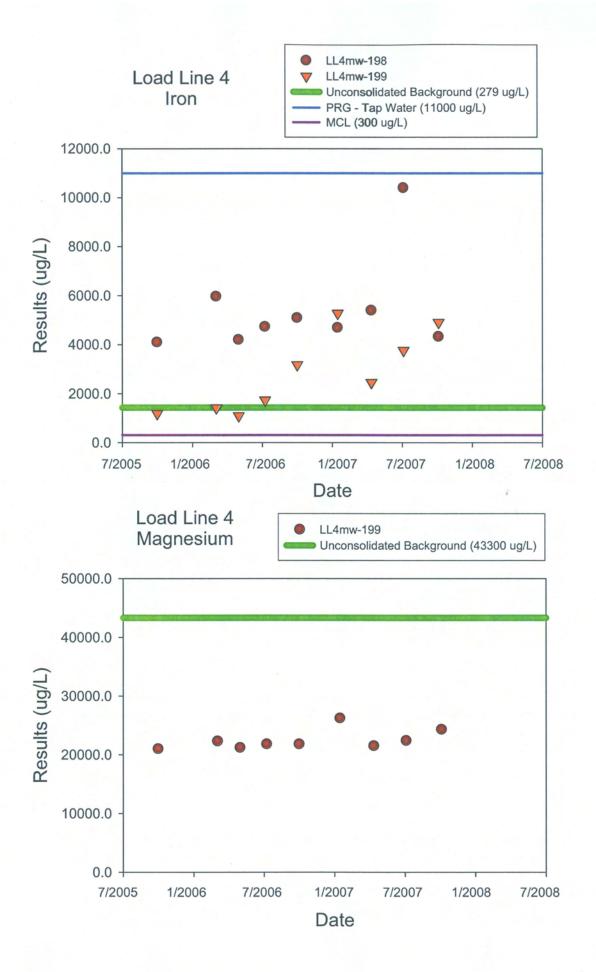


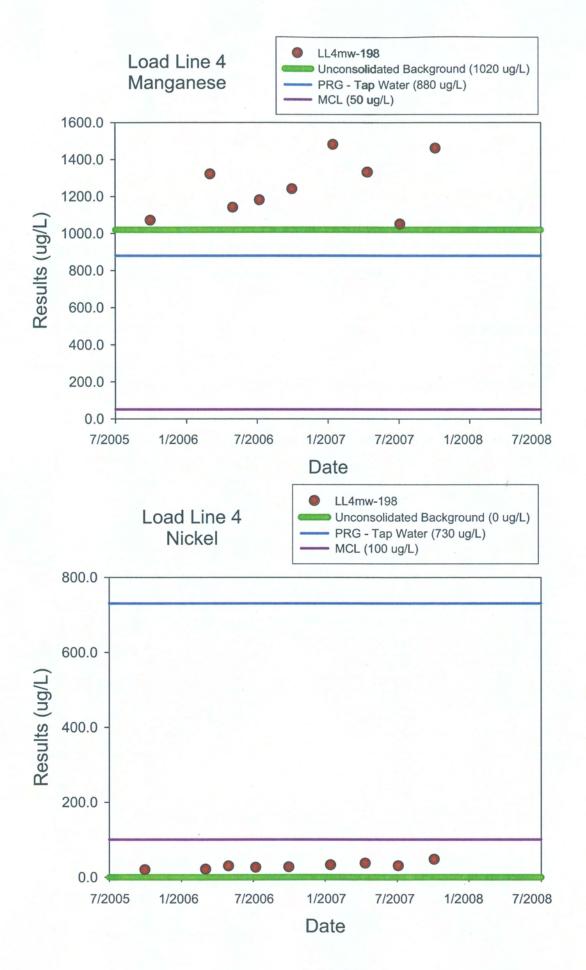


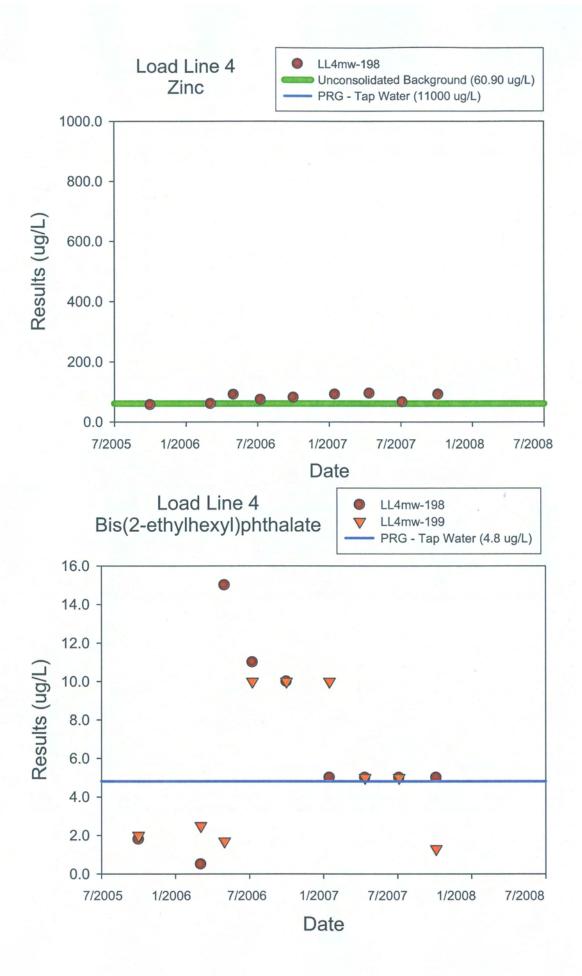


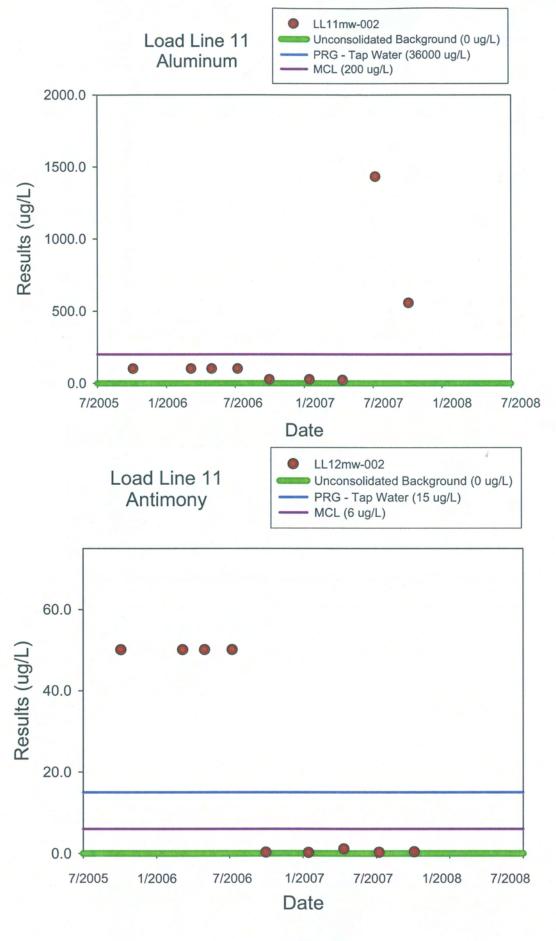


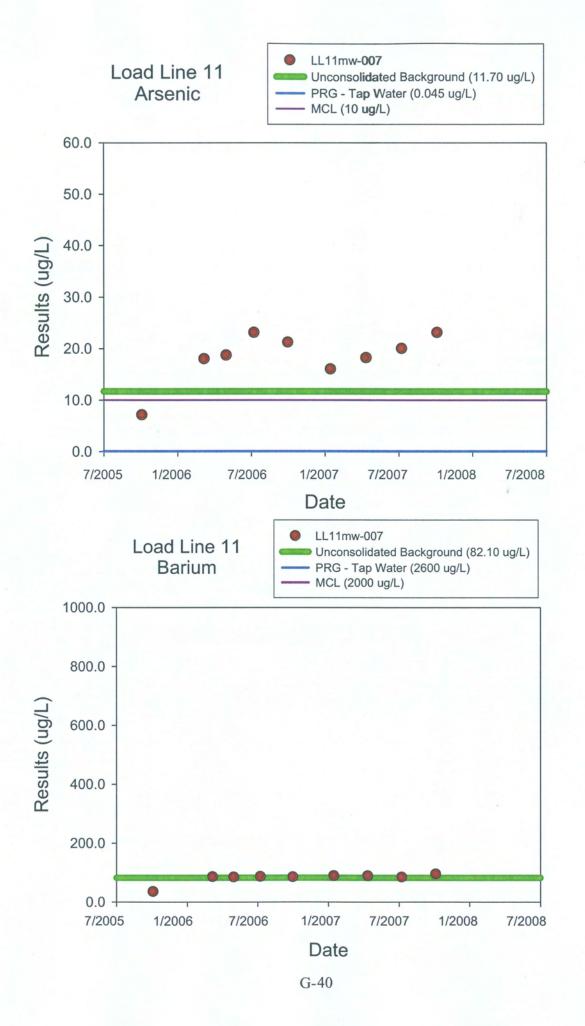


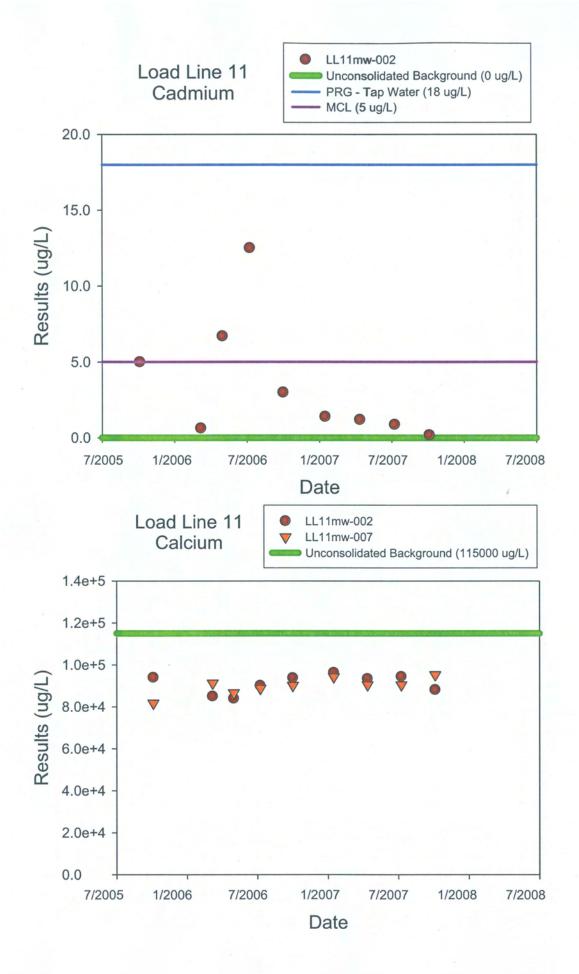


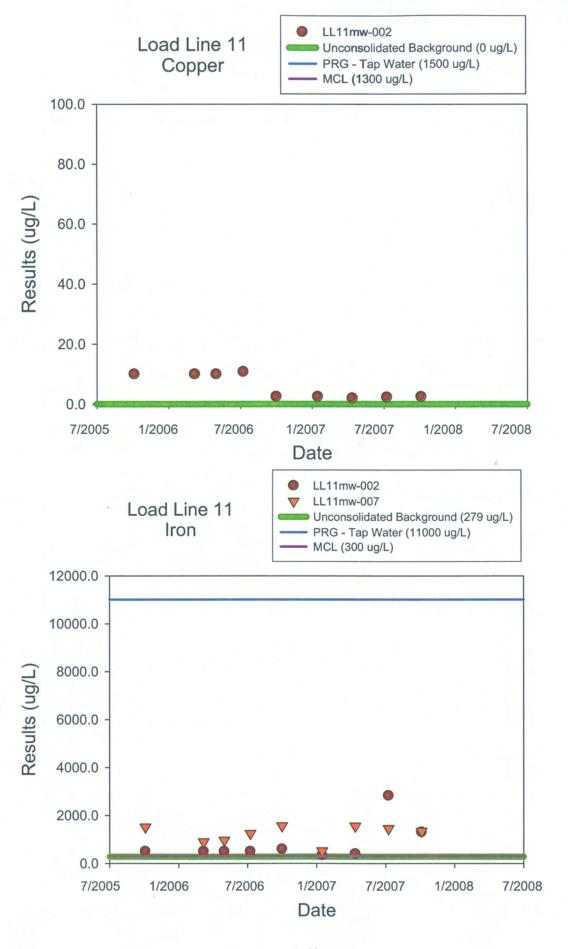


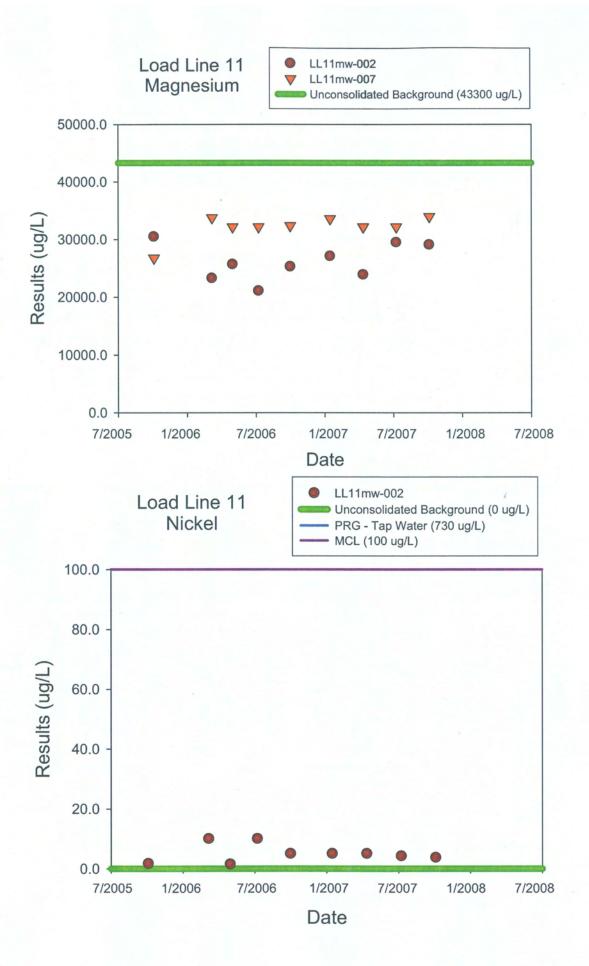


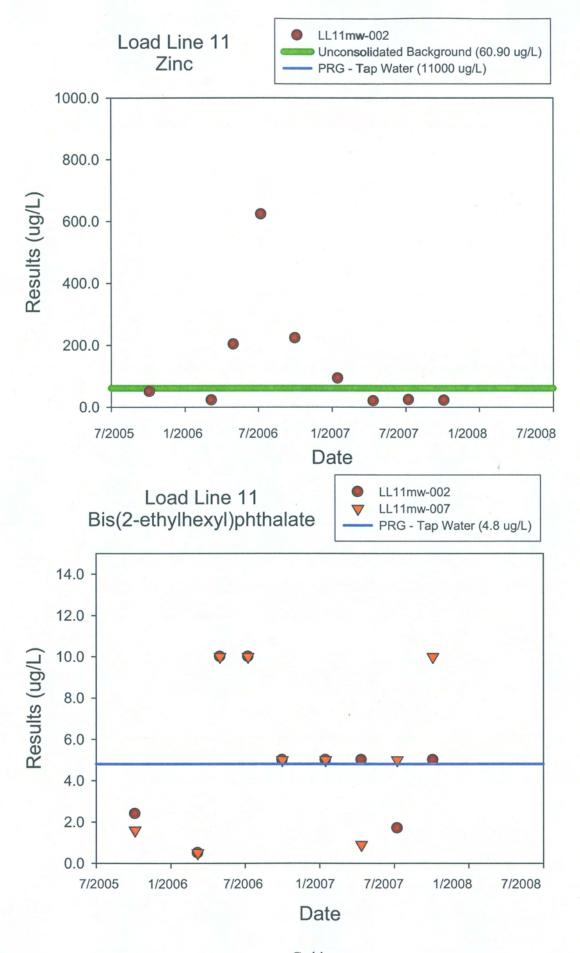


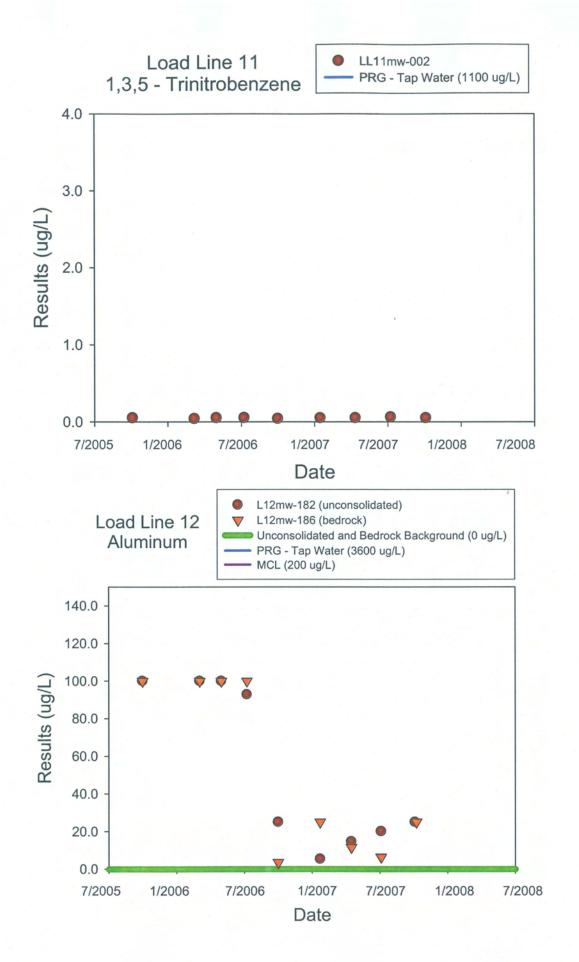


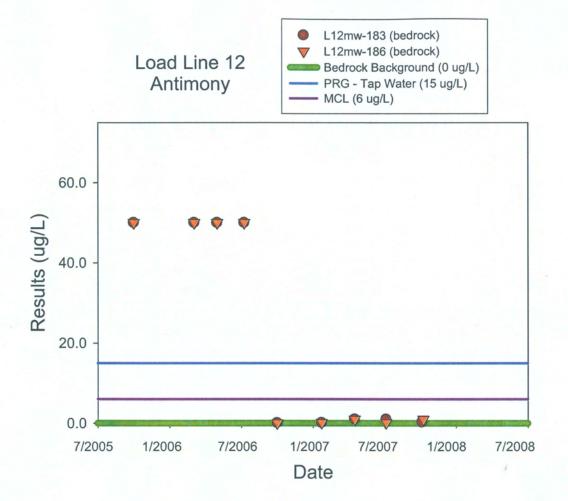


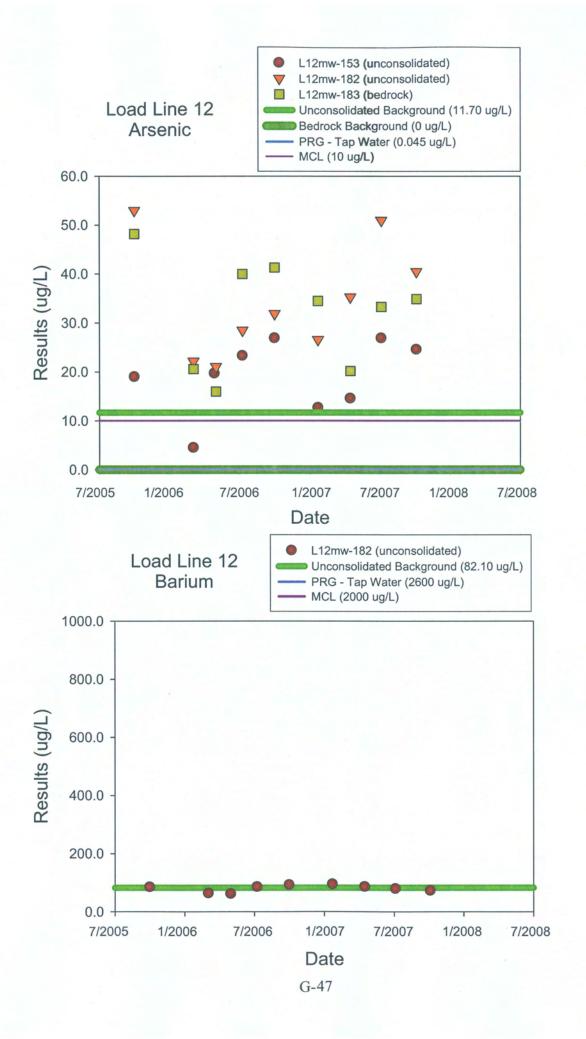


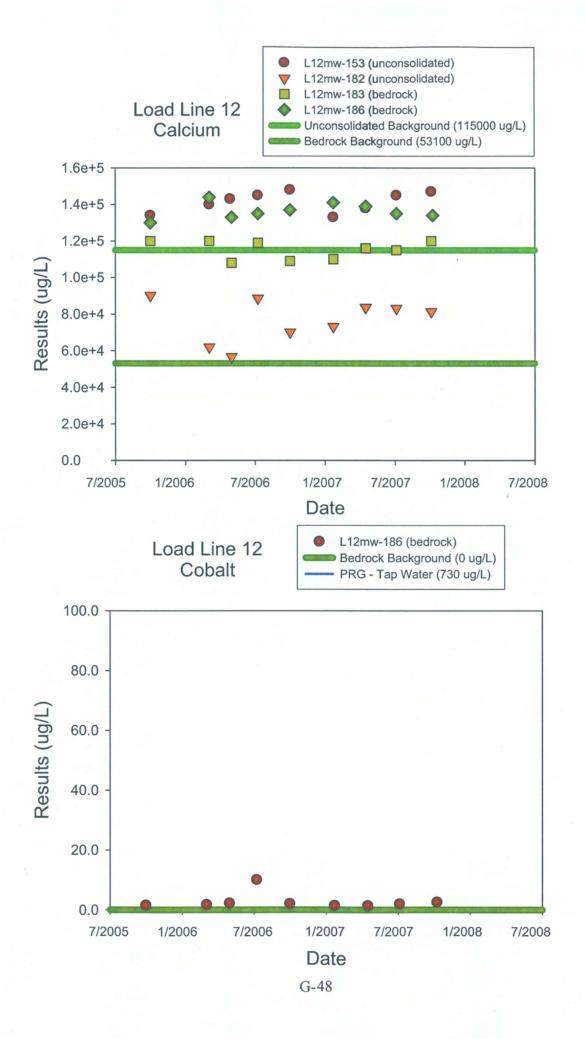


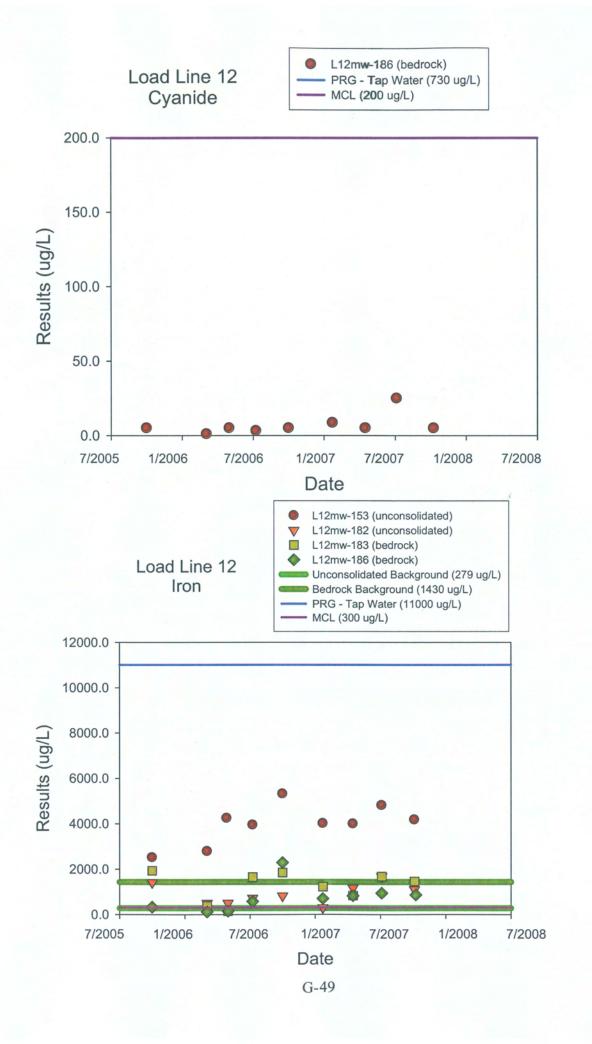


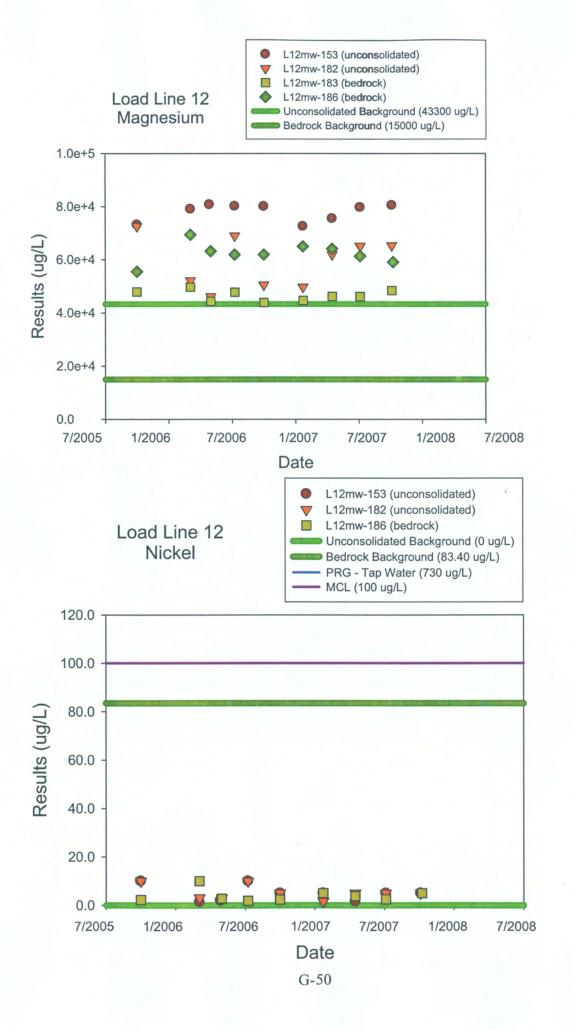


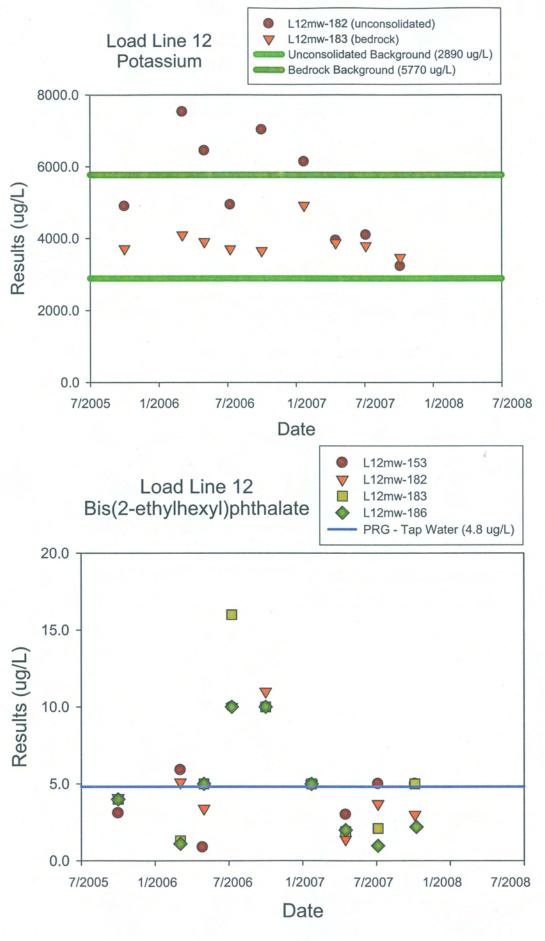


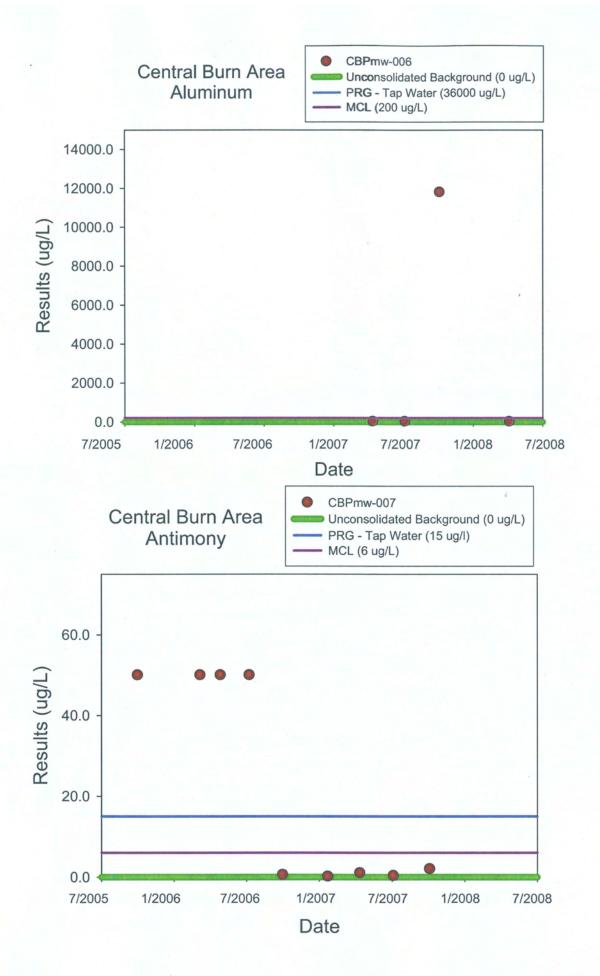


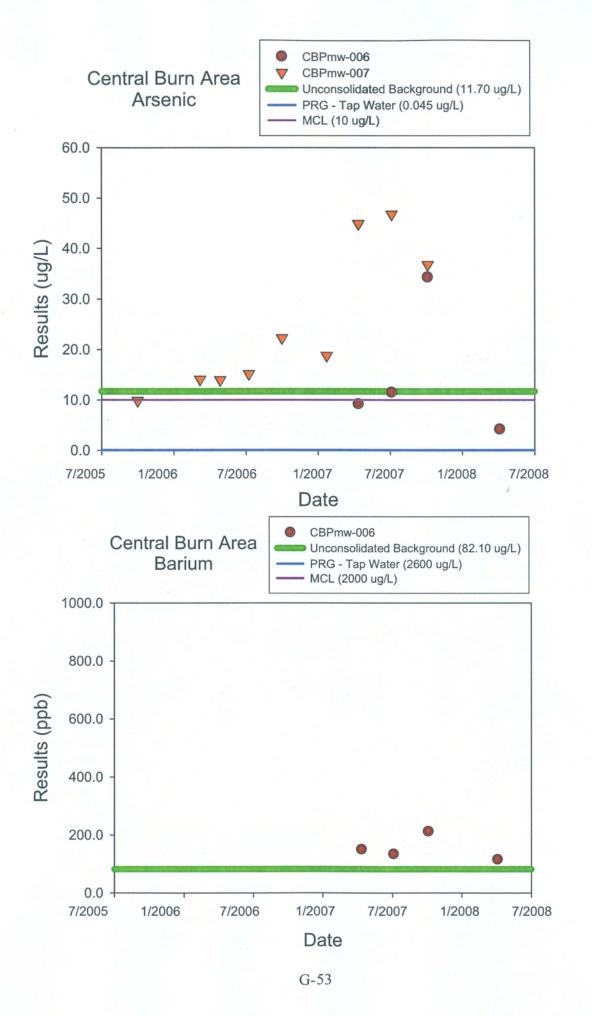


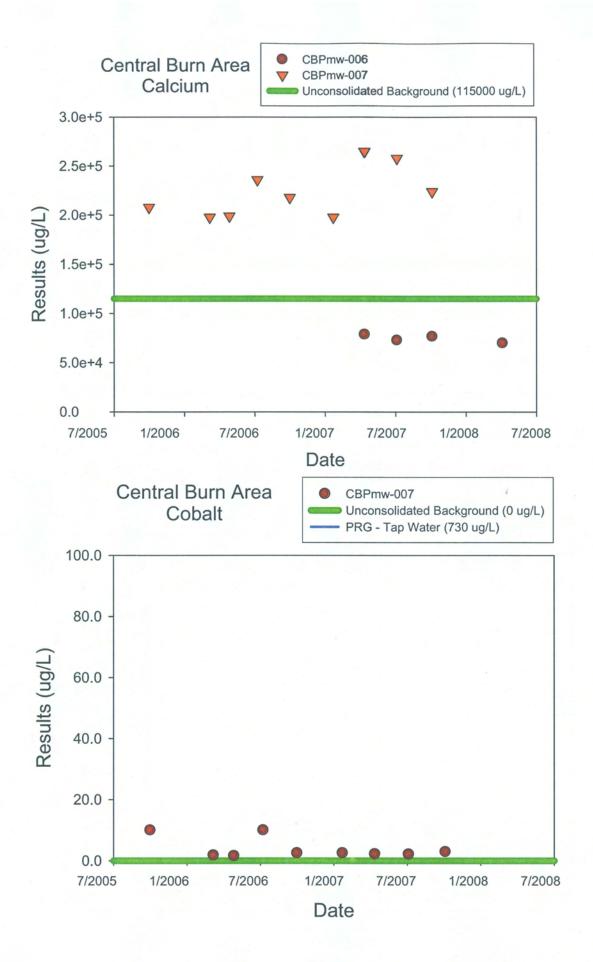


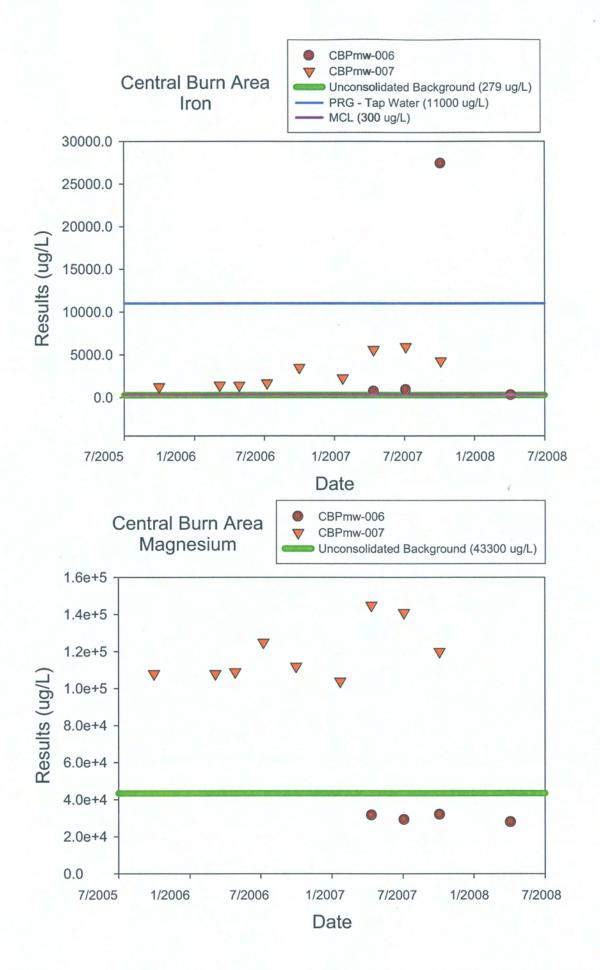


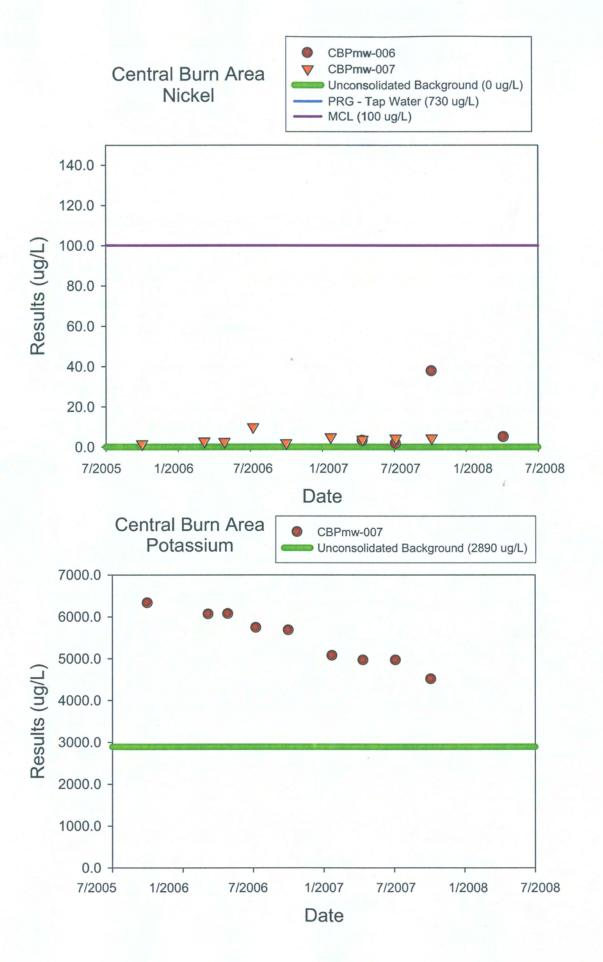


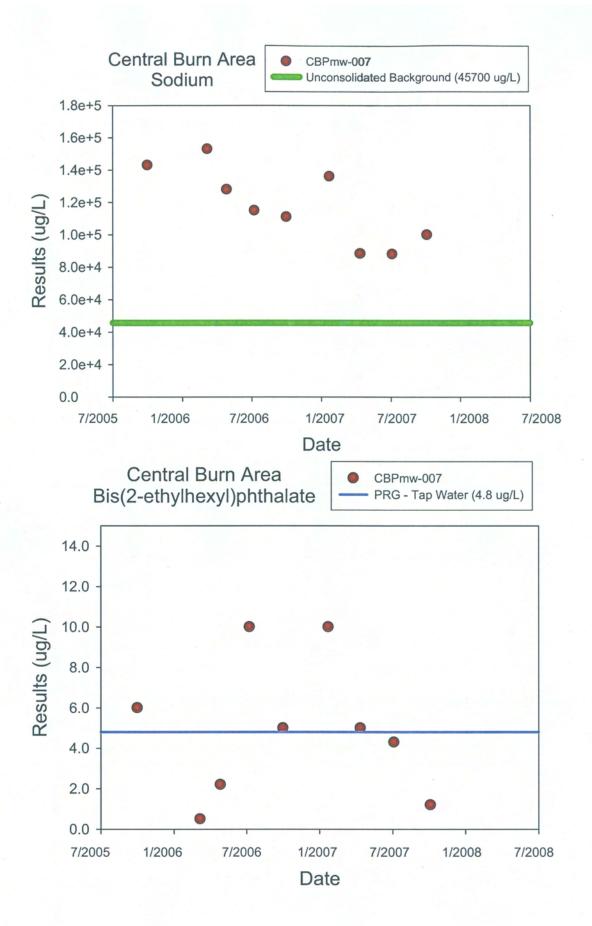


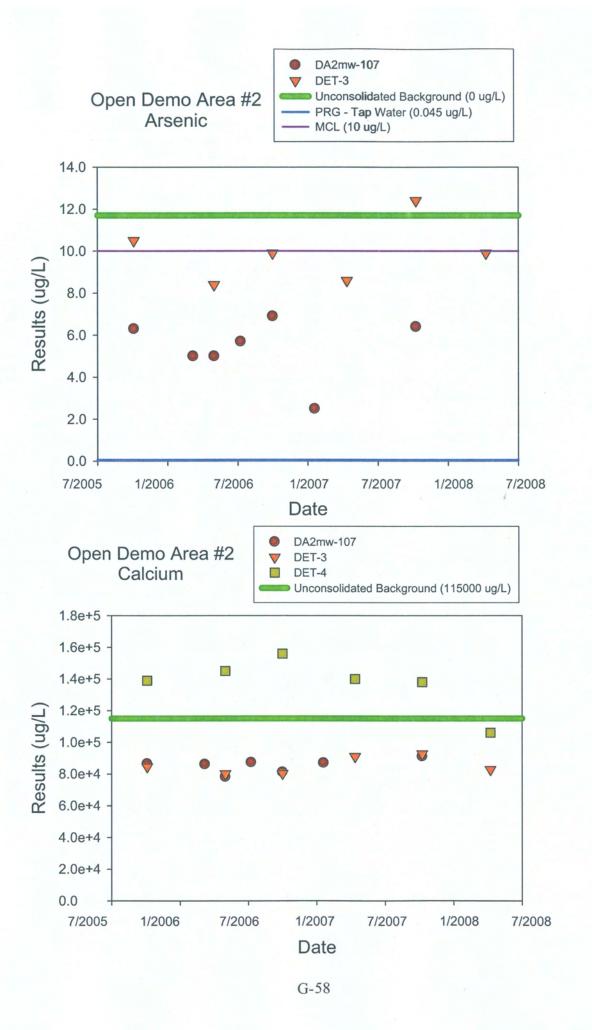


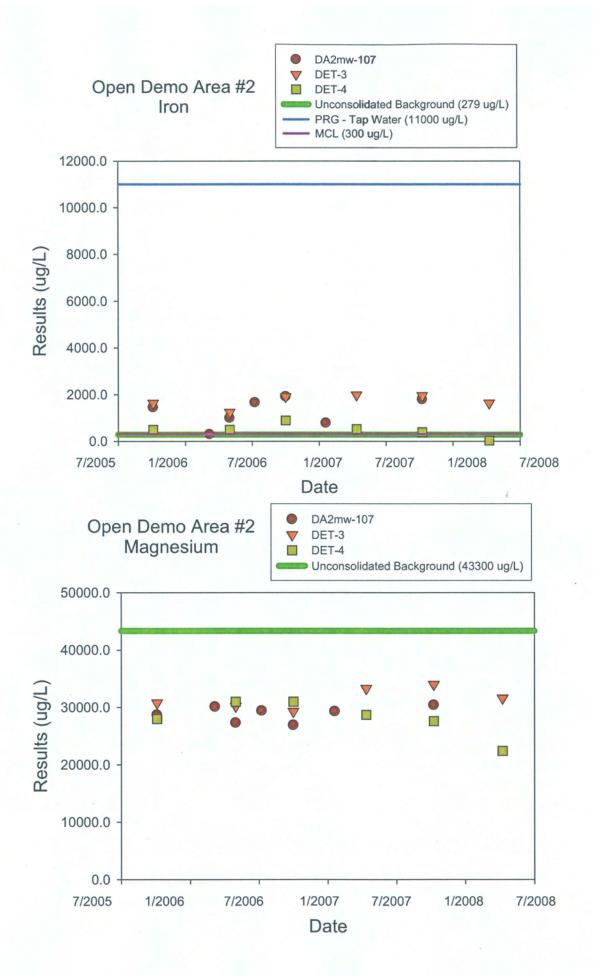


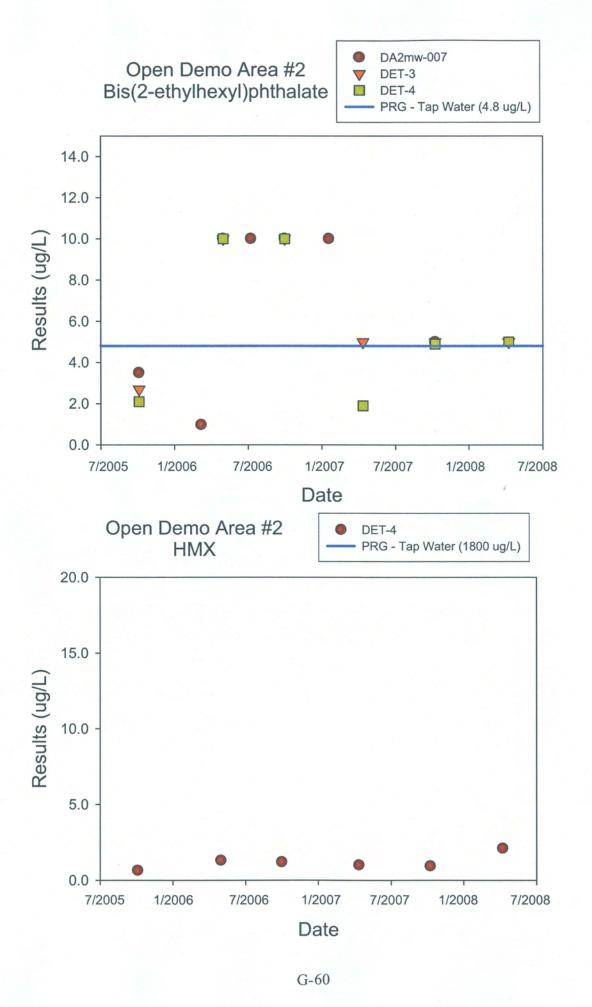


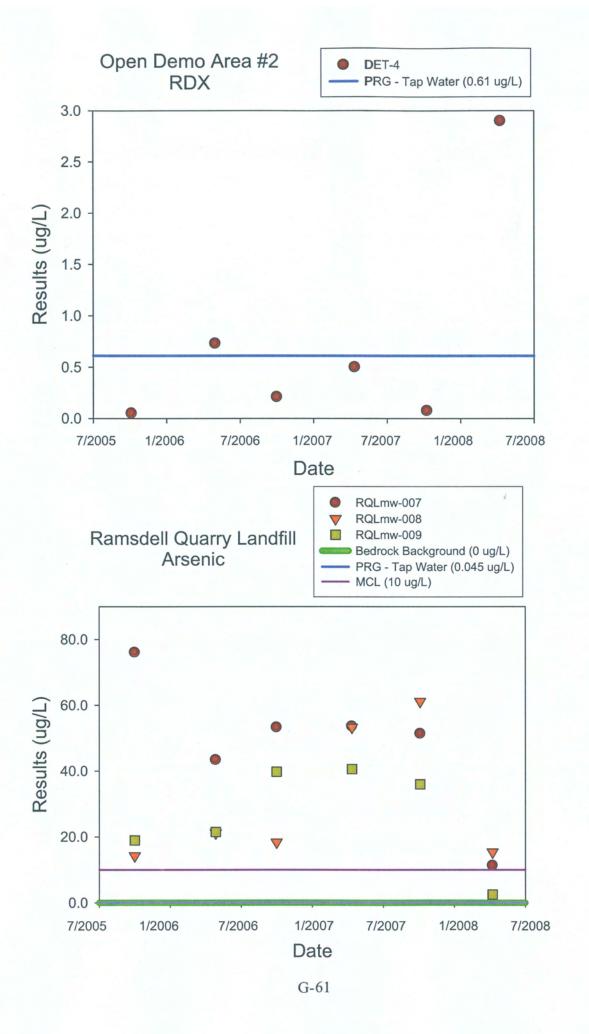


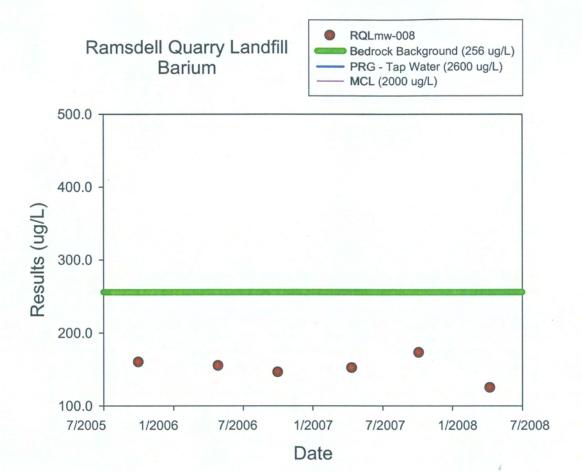


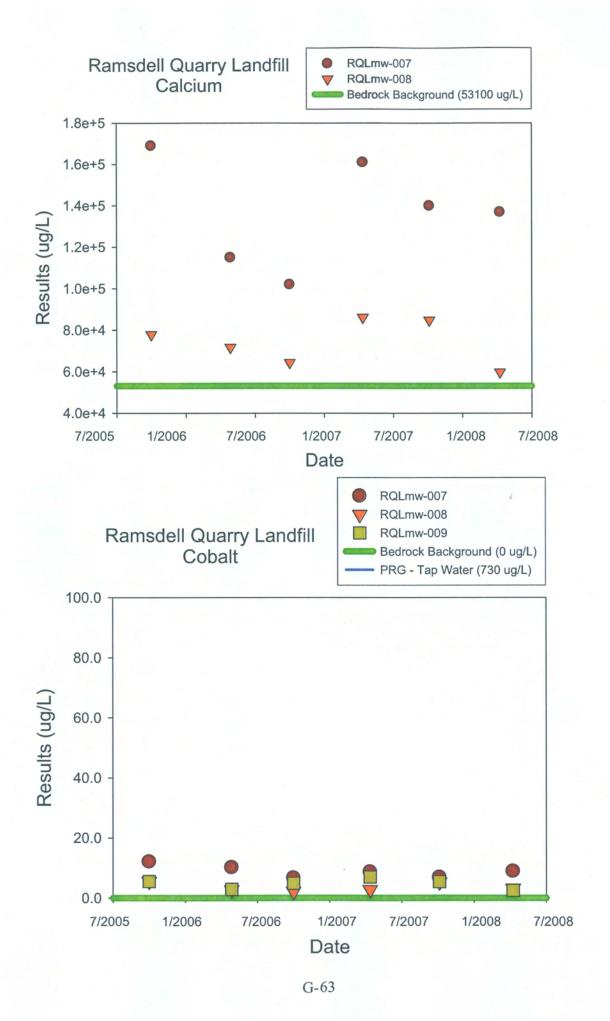


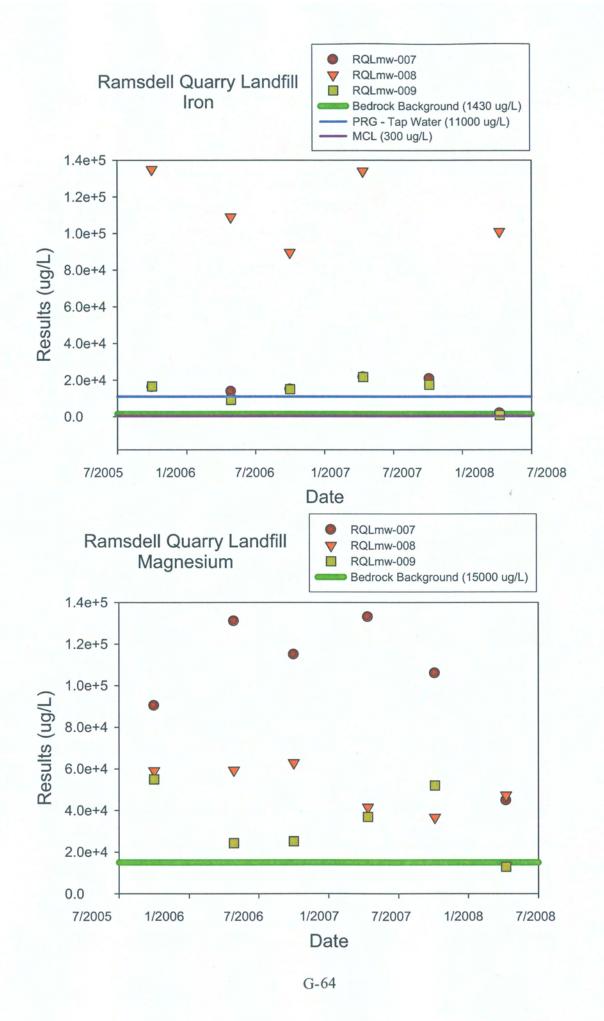


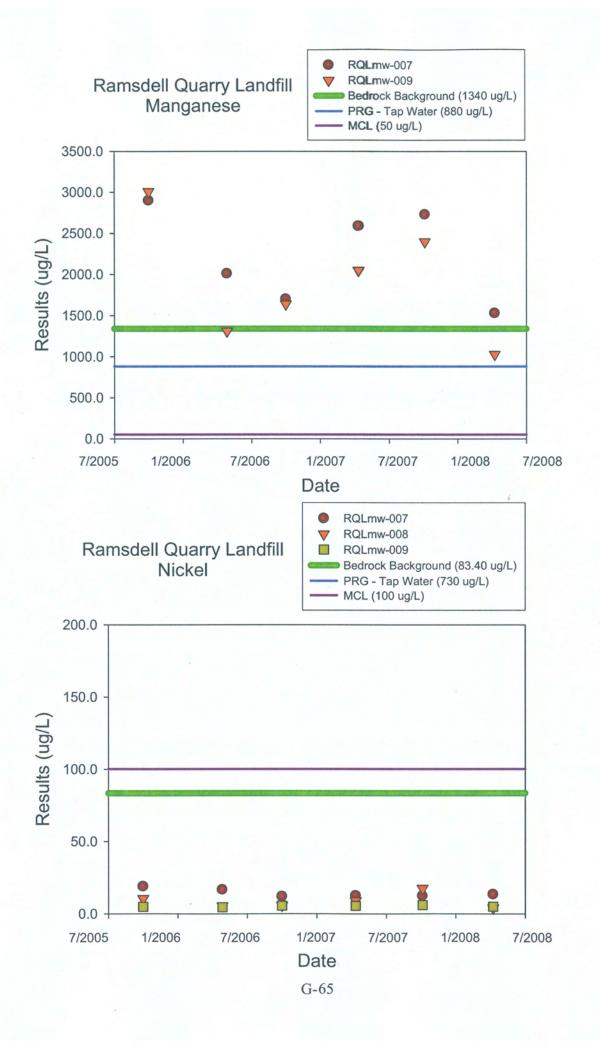


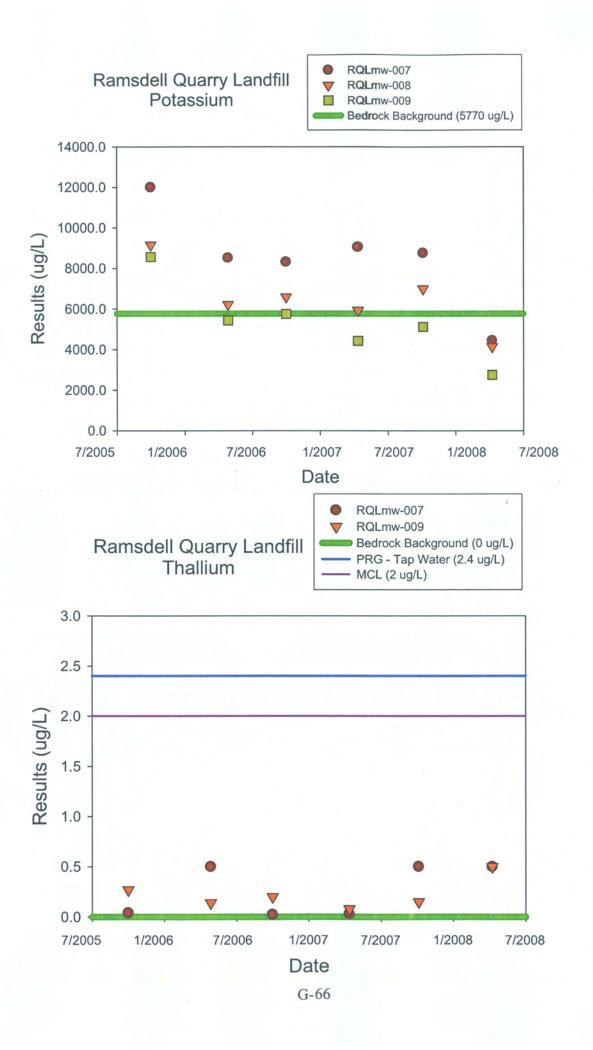


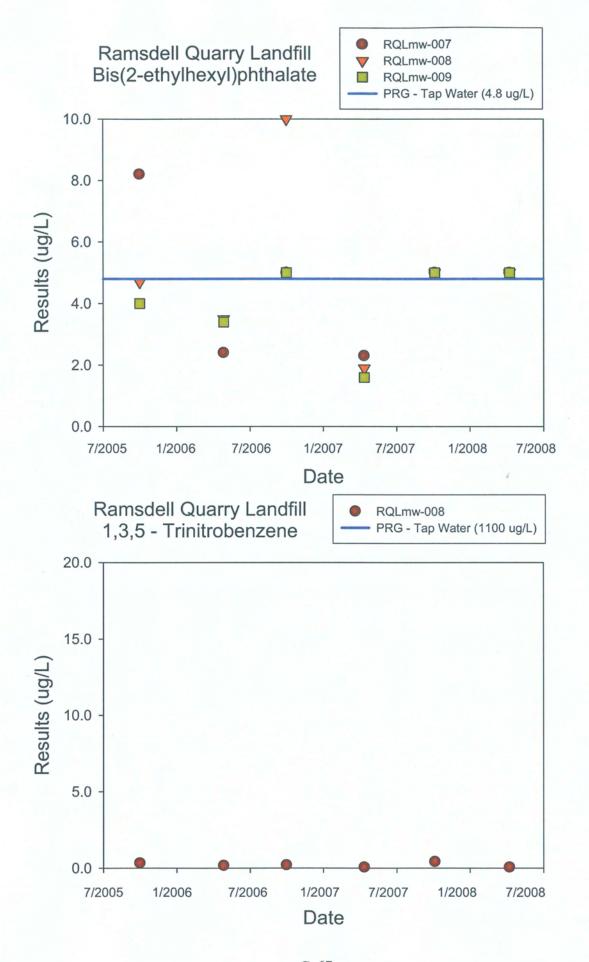


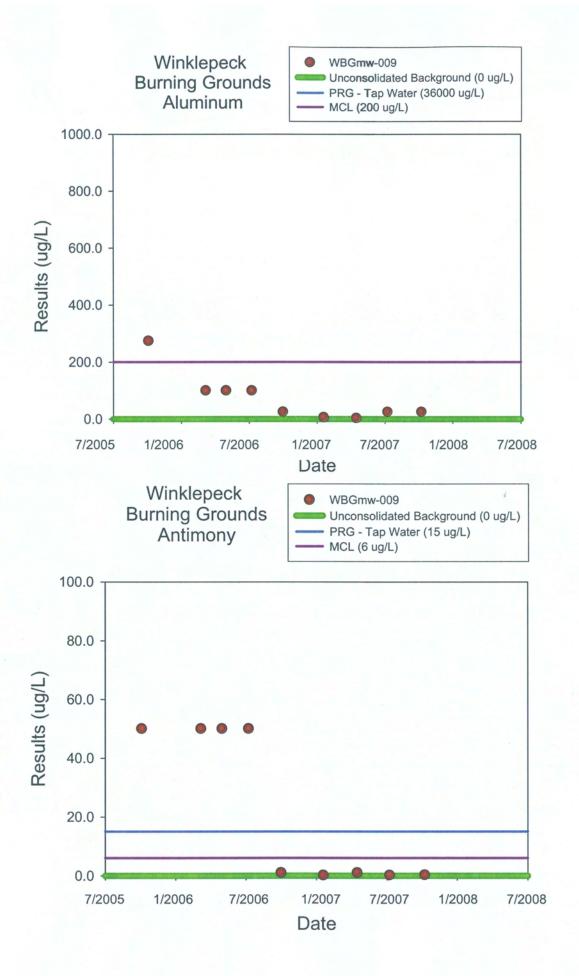


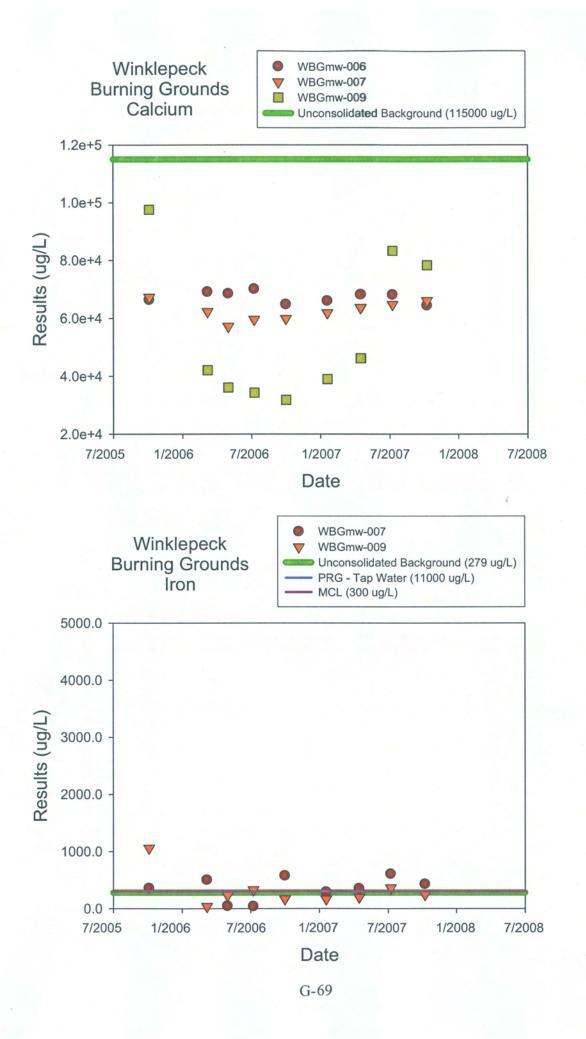


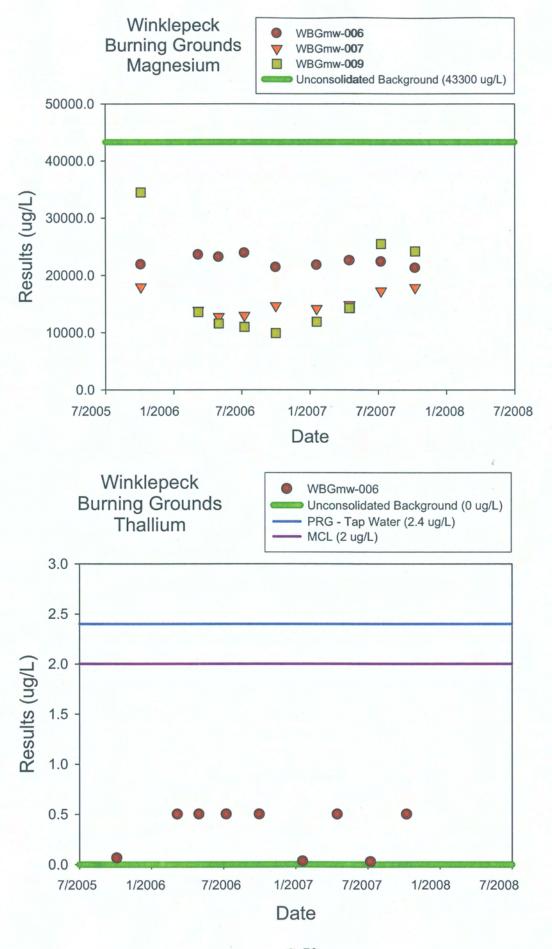


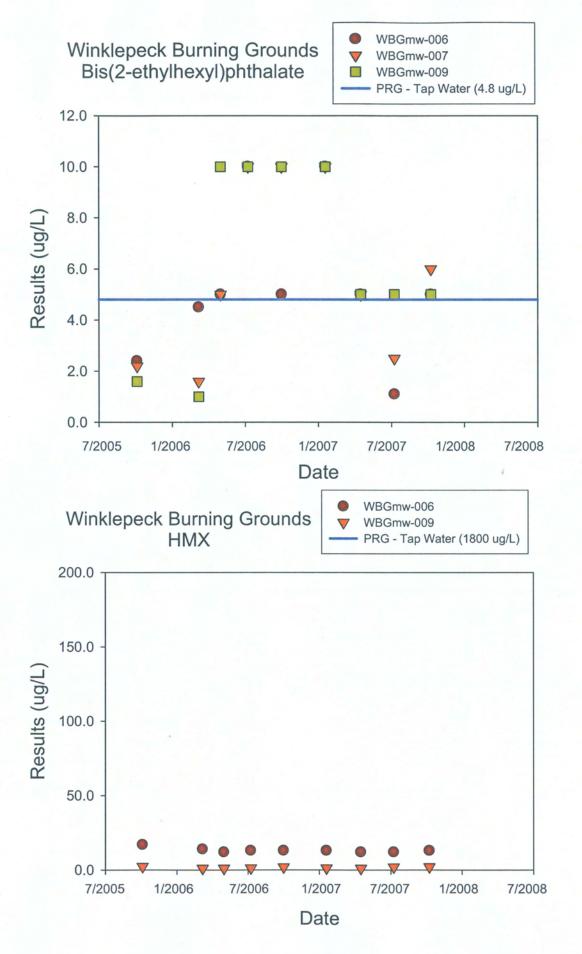


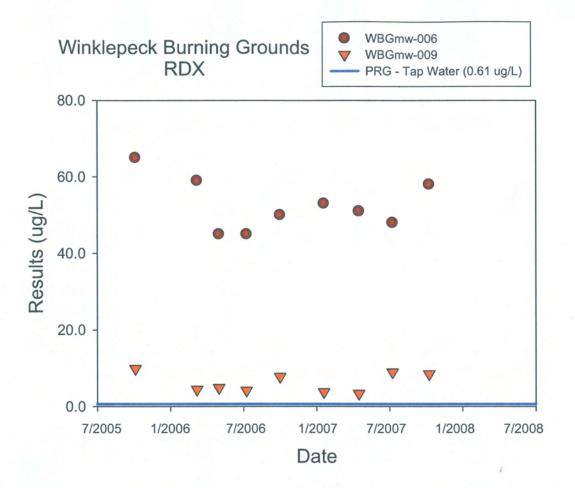




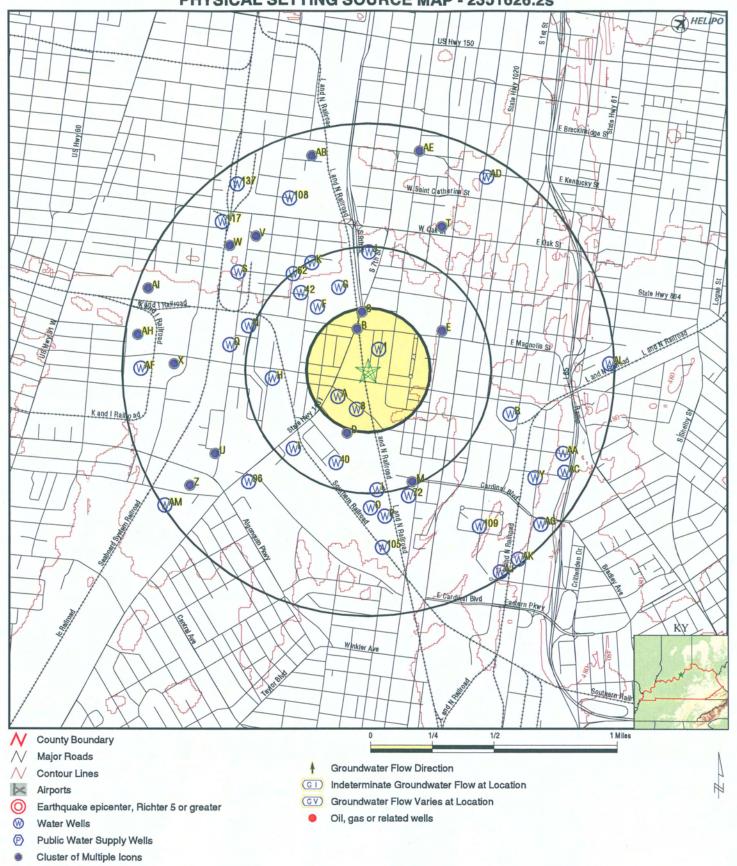








#### PHYSICAL SETTING SOURCE MAP - 2351626.2s



SITE NAME: Pepsi Site 1
ADDRESS: 625 West Hill Street
Louisville KY 40208
LAT/LONG: 38.2272 / 85.7666

CLIENT: Environmental Quality Mgmt. CONTACT: Stephanie Werner

INQUIRY #: 2351626.2s

DATE: October 29, 2008 1:03 pm

## APPENDIX H

#### MAPS OF FWGWMP STUDY AREAS

15

Note: The following maps have been reproduced from various separate reports. Each map has not been altered in any way from the original format from which it was copied.

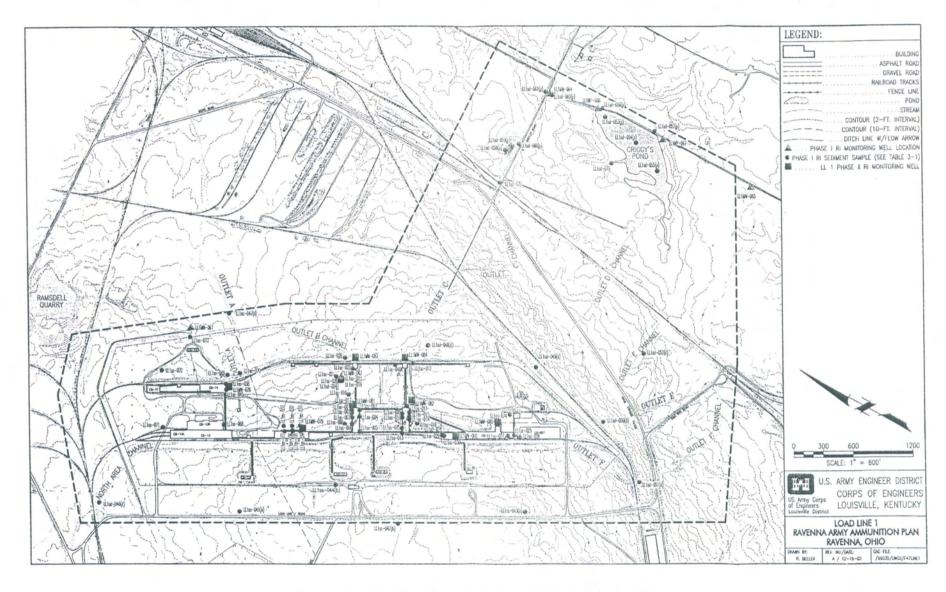


Figure 1-6. Existing Phase I RI Sampling Locations and Phase II RI Monitoring Wells at Load Line 1

92 Nov

9

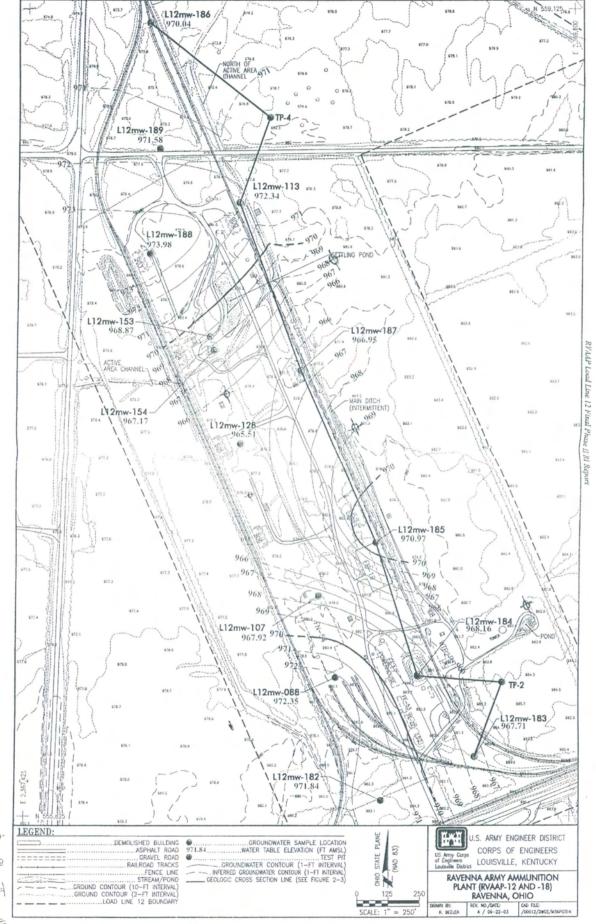


Figure 2-5. Potentiometric Groundwater Surface at Load Line 12, November 9, 2000

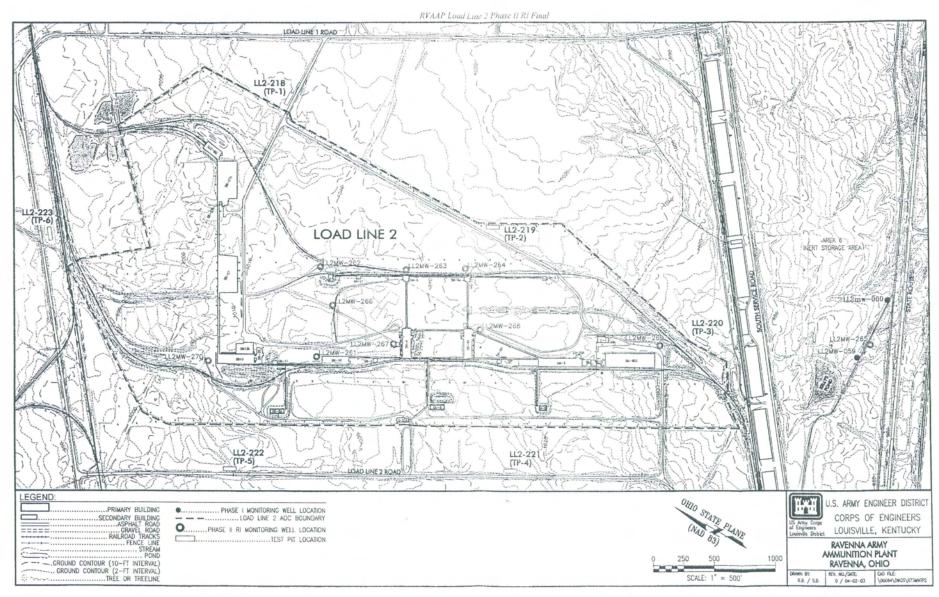
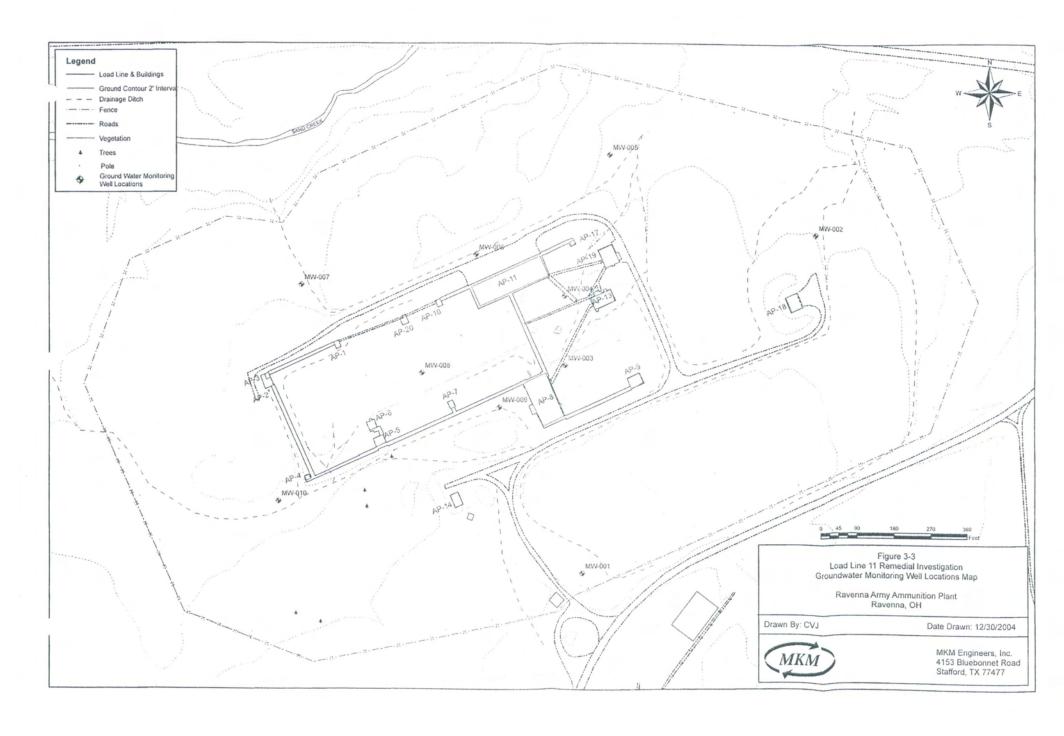


Figure 3-6. Phase II RI Monitoring Well and Test Pit Locations at Load Line 2



Figure 3-6. Phase II RI Monitoring Well and Test Pit Locations at Load Line 3



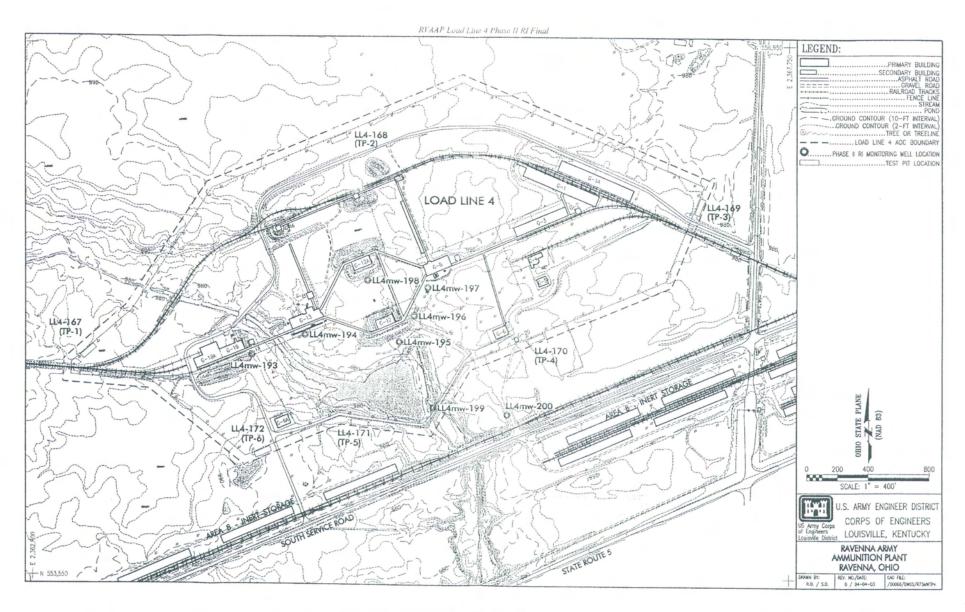
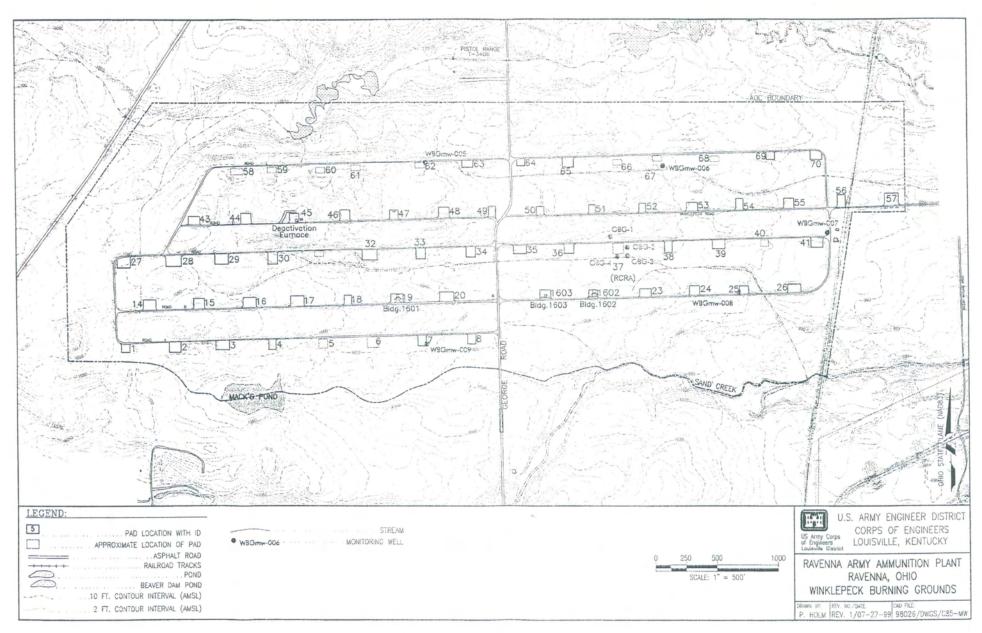
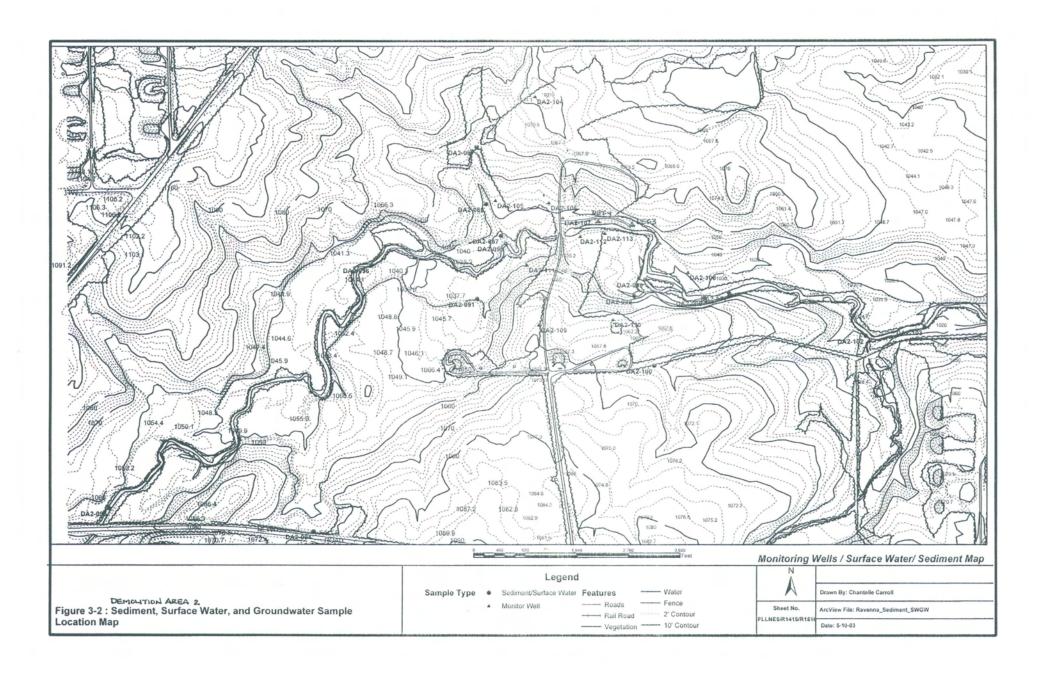


Figure 3-5. Phase II RI Monitoring Well and Test Pit Locations for Load Line 4







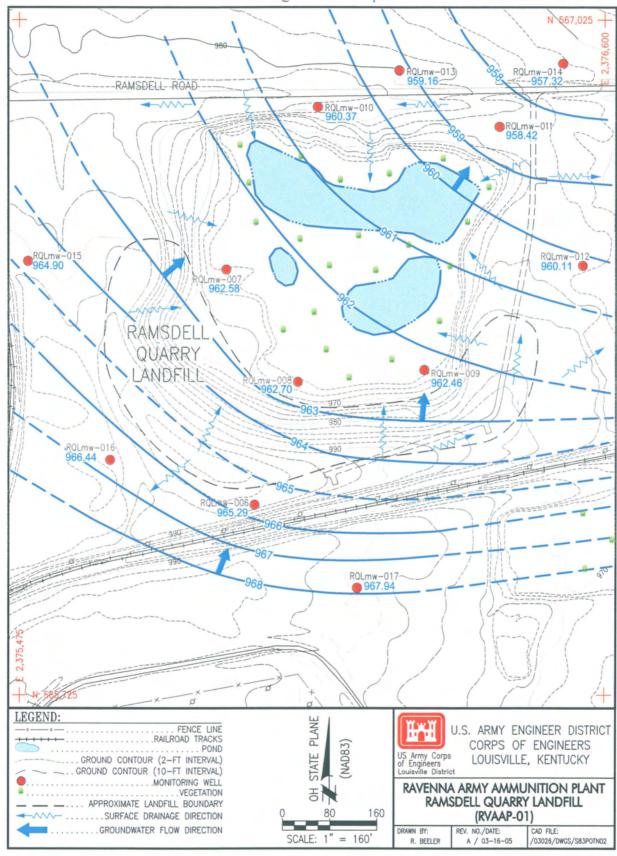


Figure 2-4. Ramsdell Quarry Potentiometric Surface, May 2004

### APPENDIX I

# REPORTING LIMITS THAT CURRENTLY DO NOT MEET THE RVAAP QAAP PQLS AND/OR REGION 9 PRGS

VOCs

			Lab	RVAAP QAPP	Region 9
CAS No	Analyte Name	MDL	RL	PQL	PRG
107-06-2	1,2-Dichloroethane	0.16	1.0	1.0	0.12
71-43-2	Benzene	0.22	1.0	1.0	0.35
67-66-3	Chloroform	0.16	1.0	1.0	0.17
10061-					
01-5	cis-1,3-Dichloropropene	0.12	1.0	1.0	0.4
75-01-4	Vinyl chloride	0.21	1.0	1.0	0.02
	1,1,2,2-		1		
79-34-5	Tetrachloroethane	0.22	1.0	1.0	0.055
106-93-4	1,2-Dibromoethane	0.24	1.0	1.0	0.0056
79-01-6	Trichloroethene	0.28	1.0	1.0	0.028
127-18-4	Tetrachloroethene	0.19	1.0	1.0	0.1
75-27-4	Bromodichloromethane	0.14	1.0	1.0	0.18
79-00-5	1,1,2-Trichloroethane	0.22	1.0	1.0	0.2
124-48-1	Dibromochloromethane	0.19	1.0	1.0	0.13
10061-	trans-1,3-				
02-6	Dichloropropene	0.17	1.0	1.0	0.4
56-23-5	Carbon tetrachloride	0.19	1.0	1.0	0.17

Note: All units are ug/L

SVOCs

CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
111-44-4	Bis(2-Chloroethyl) ether	0.088	1.0	10	0.01
			<del></del>		
50-32-8	Benzo(a)pyrene	0.048	0.20	10	0.0092
53-70-3	Dibenz(a,h)anthracene	0.039	0.20	10	0.0093
118-74-1	Hexachlorobenzene .	0.065	0.20	10	0.042
205-99-2	Benzo(b)fluoranthene	0.049	0.20	10	0.092
193-39-5	Indeno(1,2,3-cd)pyrene	0.065	0.20	10	0.092
56-55-3	Benzo(a)anthracene	0.052	0.20	10	0.092
91-94-1	3,3'-Dichlorobenzidine	0.48	5.0	10	0.15
106-46-7	1,4-Dichlorobenzene	0.52	1.0	10	0.5
87-86-5	Pentachlorophenol	0.48	5.0	25	0.56
87-68-3	Hexachlorobutadiene	0.51	1.0	10	0.86
88-06-2	2,4,6-Trichlorophenol	1.4	5.0	10	3.6

Note: All units are ug/L

Pesticides

CAS No	Analyte Name	MDL_	Lab RL	RVAAP QAPP PQL	Region 9 PRG
60-57-1	Dieldrin	0.0067	0.030	0.05	0.0042
309-00-2	Aldrin	0.0061	0.030	0.05	0.004
1024-57-3	Heptachlor epoxide	0.0065	0.030	0.05	0.0074
319-84-6	alpha-BHC	0.0062	0.030	0.05	0.011
76-44-8	Heptachlor	0.0062	0.030	0.05	0.015

Note: All units are ug/L

Explosives

CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
88-72-2	2-Nitrotoluene	0.1	0.48	0.2	120
99-08-1	3-Nitrotoluene	0.1	0.48	0.2	0.049
99-99-0	4-Nitrotoluene	0.1	0.48	0.2	0.66

Note: All units are ug/L

**PCBs** 

	CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
İ	11104-28-2	PCB-1221	0.49	0.50	0.50	0.034
1	11141-16-5	PCB-1232	0.41	0.50	0.50	0.034
	53469-21-9	PCB-1242	0.11	0.50	0.50	0.034
١	12672-29-6	PCB-1248	0.049	0.50	0.50	0.034
ı	11097-69-1	PCB-1254	0.087	0.50	0.50	0.034
ĺ	11096-82-5	PCB-1260	0.071	0.50	0.50	0.034

Note: All units are ug/L

Inorganics

	morgamoo				·
		<u> </u>			
				RVAAP	·
	Analyte		Lab	QAPP	
CAS No	Name	MDL	RL	PQL	Region 9 PRG
7440-70-2	Calcium	80	1000	100	NS
7440-23-5	Sodium	410	1000	200	NS

# Notes:

NS = Not Specified
These compounds will not meet the reporting limits specified in the QAPP. However, both of these chemicals have been consistently been found naturally occurring on the site at values that exceed the QAPP RLs.

Inorganics

CAS No	Analyte Name	MDL	Lab RL	RVAAP QAPP PQL	Region 9 PRG
7440-70-2	Calcium	80	100	100	NS
7440-23-5	Sodium	410	1000	200	NS
7440-09-7	Potassium	72	1000	200	NS

### Notes:

NS=Not Specified

These compounds will not meet the reporting limits specified in the QAPP. However, these chemicals have consistently been found naturally occurring on the site at values that exceed the QAPP RLs.

