# **REVISED FINAL**

# PHASE I REMEDIAL INVESTIGATION MAY 2004 FOLLOW-ON GROUNDWATER SAMPLING

AT THE

RAMSDELL QUARRY LANDFILL AT THE RAVENNA ARMY AMMUNITION PLANT RAVENNA, OHIO

Prepared for



US Army Corps of Engineers®

U.S. Army Corps of Engineers – Louisville District Contract No. F44650-D-99-0007 DELIVERY ORDER CY11



**MARCH 2005** 

### SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

contributed to the preparation of this document and should not be considered an eligible contractor for its review.

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# CONTENTS

FIGU	RES.		v
TAB	LES		v
ACR	ONYN	1S	vii
1.0	INTF 1 1	ODUCTION PURPOSE AND SCOPE	1-1 1-1
2.0		HISTORY AND PREVIOUS INVESTIGATIONS	2-1
	2.2 2.3	PREVIOUS SITE INVESTIGATIONS PHASE I REMEDIAL INVESTIGATION CONSTITUENTS OF POTENTIAL CONCERN	2-2
3.0	MAY 3.1 3.2 3.3	2004 WET SEASON SAMPLING WATER LEVEL MEASUREMENTS MONITORING WELL SAMPLING RESULTS	3-1 3-1
4.0	REFI	ERENCES	4-1
APPI	ENDIX	A GROUNDWATER SAMPLING LOGS	A-1
APPI	ENDIX	B ANALYTICAL LABORATORY DATA TABLES	B-1

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## **FIGURES**

1-1	General Location and Orientation of RVAAP	. 1-2	)
1-2	Ramsdell Quarry Site Map and Groundwater Monitoring Well Locations	. 1-3	;
2-1	Ramsdell Quarry Potentiometric Surface, April 2004	.2-4	ļ
3-1	Groundwater Potentiometric Map, Second Event (May 2004)	. 3-2	)

## **TABLES**

2-1	Summary of COPC Screening for Ramsdell Quarry Groundwater, Phase I RI	
	(December 2003)	2-5
2-2	Detected Analytes in Ramsdell Quarry Phase I RI Wells Baseline Event (December 2003)	2-6
3-1	Groundwater Elevations from Second Event Sampling (May 2004)	3-1
3-2	Summary of COPC Screening for Ramsdell Quarry Groundwater - Wet Season	
	(May 2004)	3-4
3-3	Detected Analytes in Ramsdell Quarry Phase I RI Wells, Wet Season Sampling Event	
	(May 2004)	3-5

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# ACRONYMS

AOC	area of concern
COPC	constituent of potential concern
EPA	U. S. Environmental Protection Agency
JMC	Joint Munitions Command
MCL	maximum contaminant level
PCB	polychlorinated biphenyl
PRG	preliminary remediation goal
RI	remedial investigation
RQL	Ramsdell Quarry Landfill
RVAAP	Ravenna Army Ammunition Plant
SRC	site-related contaminant
SVOC	semivolatile organic compound
TAL	target analyte list
VOC	volatile organic compound

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### **1.0 INTRODUCTION**

This report documents the results of the second round (wet season) of groundwater sampling at the Ramsdell Quarry Landfill (RQL) at the U. S. Army Joint Munitions Command (JMC) at the Ravenna Army Ammunition Plant, (RVAAP), Ravenna, Ohio (Figures 1-1 and 1-2). The second round of groundwater sampling was conducted in May 2004, and represents follow-on sampling of the Groundwater Investigation initiated during the Phase I Remedial Investigation (RI). Both the Phase I RI and follow-on sampling were conducted under the U. S. Department of Defense Installation Restoration Program by Science Applications International Corporation and its subcontractors, under contract number F44650-D-99-0007, Delivery Order CY11, with the U. S. Army Corps of Engineers, Louisville District. This investigation was conducted in compliance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 following work plans reviewed and commented on by the Ohio Environmental Protection Agency.

The reader is referred to the Phase I RI (USACE 2004) for additional details regarding the field program, environmental setting, nature and extent of contamination, and conceptual site model.

#### 1.1 PURPOSE AND SCOPE

During the Phase I RI, six new monitoring wells were installed both downgradient (north-northwest) and upgradient (south-southeast) of the area of concern (AOC). The downgradient wells were installed to bound the extent of contamination observed in groundwater adjacent to the quarry and to further evaluate potentiometric gradient reversals, observed previously adjacent to the quarry. Two groundwater wells (RQLmw-013 and -014) were installed in a configuration along the north side of Ramsdell Road to provide data on general hydrogeologic characteristics and groundwater flow patterns. One monitoring well (ROLmw-012) was installed east of Ramsdell Ouarry to provide data on general hydrogeologic characteristics and groundwater flow patterns, and to provide closure for the monitoring network in the sidegradient direction. One monitoring well (RQLmw-015) was installed to the west of RQL to fill a data gap in this portion of the AOC. Two upgradient wells were installed to identify if any potential migration of contaminants from Load Line 1 is occurring, which might account for contaminants observed in an upgradient well (RQLmw-006). One upgradient monitoring well (RQLmw-016) was installed southwest of the quarry to fill a data gap in this portion of the AOC and to monitor for potential northward contaminant transport from Load Line 1. The other upgradient monitoring well (RQLmw-017) was installed due south of the AOC, between RQL and Load Line 1; this location was selected to determine whether contaminants observed in the upgradient well at RQL (RQLmw-006) are sourced from Load Line 1. Multiple sampling rounds of newly installed wells, and water level measurements of both newly installed and existing wells under both base flow/dry season conditions and high flow/wet season conditions, were planned to determine if transport of contaminants is occurring under certain hydrologic conditions.

High flow/wet season conditions are represented by the samples collected in May of 2004, and the results are documented in this report.

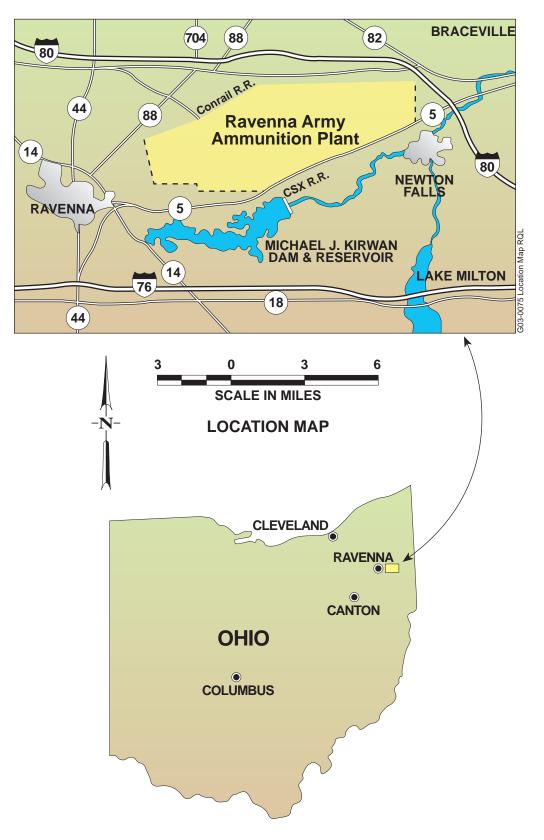


Figure 1-1. General Location and Orientation of RVAAP

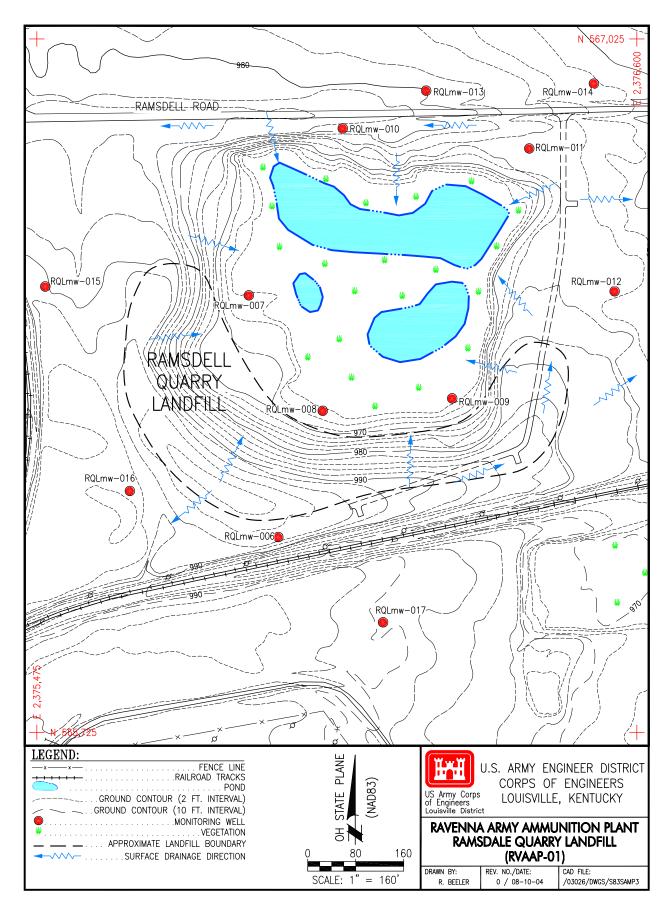


Figure 1-2. Ramsdell Quarry Site Map and Groundwater Monitoring Well Locations

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## 2.0 SITE HISTORY AND PREVIOUS INVESTIGATIONS

#### 2.1 SITE HISTORY

RVAAP is located in northeastern Ohio in Portage and Trumbull counties and lies about 16 km (10 miles) east of Ravenna, Ohio (Figure 1-1). Operations at the facility began in September 1941 and included the storage, handling, and packing of military ammunition and explosives. The facility encompasses 8,668 ha (21,419 acres) and is jointly operated by the JMC of the U. S. Army and the National Guard Bureau. The JMC controls environmental AOCs and active mission areas. A detailed history of process operations and waste disposal processes for each AOC at RVAAP is presented in the *Preliminary Assessment for the Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 1996).

Ramsdell Quarry is located in the northeastern portion of RVAAP and encompasses about 14 acres (Figure 1-2). The quarry was excavated about 9 to 12 m (30 to 40 ft) below existing grade into the Sharon Member of the Pottsville Formation. The original unconsolidated glacial material overlying the sandstone was only a few meters (<10 ft) thick and appears to have been entirely removed. The excavated material, consisting of sandstone and quartz pebble conglomerate, was used for road and construction ballast. Quarry operations were discontinued in about 1941.

The western and southern portions of the abandoned quarry were subsequently used for landfill operations (RQL) between 1941 and 1989 (Figure 1-2). No information is available regarding landfill disposal activities between 1941 and 1976. From 1976 until the landfill was closed in 1989, only non-hazardous solid waste was deposited in RQL. In 1978, a portion of the abandoned quarry was permitted as a sanitary landfill by the state of Ohio. The permit required a 30-m (100-ft) buffer be maintained between the landfill and the pond; the extent of the pond prior to this time is not known. Closure of the permitted sanitary landfill was completed in May 1990 under state of Ohio solid waste regulations (Ohio Administrative Code 3745-27-10). A requirement of closure was installation and semiannual monitoring of five monitoring wells.

In addition, from 1946 to the 1950s, the bottom of the quarry was used to burn waste explosives from Load Line 1. Approximately 18,000 225-kg (500-lb) incendiary or napalm bombs were reported to have been burned in the abandoned quarry. Liquid residues from annealing operations were also dumped in the quarry. No additional historical information currently is available on how the quarry was used, other than for landfill operations, from the 1950s until 1976, when operational records show that non-hazardous solid wastes were placed in RQL.

Based upon available information and past uses of the abandoned quarry, wastes may include domestic, commercial, and industrial solid and liquid wastes, including explosives (e.g., trinitrotoluene, hexahydro-1,3,5-trinitro-1,3,5-triazine, and Composition B), napalm, gasoline, acid dip liquor, annealing residue (e.g., sulfuric acid, shell casings, sodium orthosilicate, chromic acid, and alkali), aluminum chloride, and inert material. Interviews with former RVAAP personnel have indicated that much of the landfilled wastes and debris at the abandoned quarry were removed in the 1980s.

A much smaller quarry (also abandoned) was located directly southeast of RQL (Figure 1-2). Although no standing water was observed in the smaller quarry during earlier investigations, it was water filled in late August 2003 as a result of above average rainfall during the summer of 2003. No documentation of waste disposal or treatment exists for this quarry.

#### 2.2 PREVIOUS SITE INVESTIGATIONS

Previous investigations at Ramsdell Quarry include monitoring related to post-closure of RQL, a Groundwater Investigation to evaluate the suitability of the post-closure groundwater monitoring network for RQL and to investigate general groundwater/surface water interactions in the quarry (USACE 1999, 2000), and the Phase I RI completed in Fall 2003 (USACE 2004). The Groundwater Investigation was designed to: (1) evaluate whether the closed landfill is in compliance with Ohio solid waste post-closure requirements; (2) to close data gaps in the RQL post-closure monitoring program; and (3) to address potential impacts upon groundwater related to historical operations at Ramsdell Quarry prior to use of the site for landfill operations.

The initial phase, conducted in July 1998, involved: (1) the installation and sampling of six monitoring wells, (2) sampling of the existing RQL post-closure monitoring well system, (3) sampling of sediment and surface water within the quarry, and (4) construction of a staff gauge within the main quarry pond. Results of the initial phase of the investigation were presented in the *Initial Phase Report, Groundwater Investigation Ramsdell Quarry Landfill, Ravenna Army Ammunition plant, Ravenna, Ohio* (USACE 1999).

The follow-on phase of the investigation, which extended until July 15, 1999, included: (1) quarterly, dry season, and wet season (storm event) sampling of the new monitoring well network and quarry pond surface water; (2) collection of long-term water levels from new monitoring well network and quarry pond; (3) monthly manual water level measurements from all wells and the pond staff gauge; and (4) collection of precipitation data. Results of the follow-on phase of the investigation were presented in the *Final Phase Report, Groundwater Investigation Ramsdell Quarry Landfill, Ravenna Army Ammunition plant, Ravenna, Ohio* (USACE 2000).

Groundwater samples from the Groundwater Investigation contained low, but consistently detectable, concentrations of nine explosive compounds and associated degradation products and nitroglycerin. Multiple trace metals were present above facility-wide background criteria, as well as Ohio drinking water standards in both unfiltered and filtered samples. The most prevalent of these were aluminum, arsenic, cobalt, manganese, mercury, nickel, and zinc. Sporadic detections of bis(2-ethylhexyl)phthalate and volatile organic compounds (VOCs) were noted. Toluene and methylene chloride were the most persistent VOCs detected. No VOC results exceeded Ohio primary maximum contaminant levels (MCLs). The upgradient well (RQLmw-006) and two wells (RQLmw-007 and -008), located at the toe of the landfill, typically had the highest percentages of detected contaminants. The furthest downgradient well (RQLmw-011) also had a comparatively high frequency of metals above background criteria.

Potentiometric data collected during the period of the Groundwater Investigation showed that horizontal potentiometric gradients are consistently to the northeast across the site during dry periods of the year. During these periods, the quarry pond is a static representation of the water table and may even function as a sink through evapotranspiration processes. During the wet season of the year, a sufficient reservoir of water exists in the quarry pond to act as a recharge point to groundwater. As a result, potentiometric surface elevations in upgradient well RQLmw-006 and those at the toe of the landfill are essentially equal. Rainfall events during the wet period of the year adds additional volume to the quarry pond, which results in sufficient hydraulic head to produce slight, localized flow gradient reversals between the pond and well RQLmw-006 for short periods of time. Wells RQLmw-010 and -011 remain consistently downgradient of RQL throughout the year.

The distribution of contaminants in wells at RQL observed during the Groundwater Investigation are consistent with the observed hydraulic characteristics. Considering that the horizontal potentiometric gradient during the wet season is flat and exhibits short-term reversals, RQL is the likely source of

observed contaminants in well RQLmw-006. For a majority of the year, groundwater flow is consistently to the north-northeast providing the mechanism for contaminant migration to wells located at the toe of RQL and to RQLmw-011.

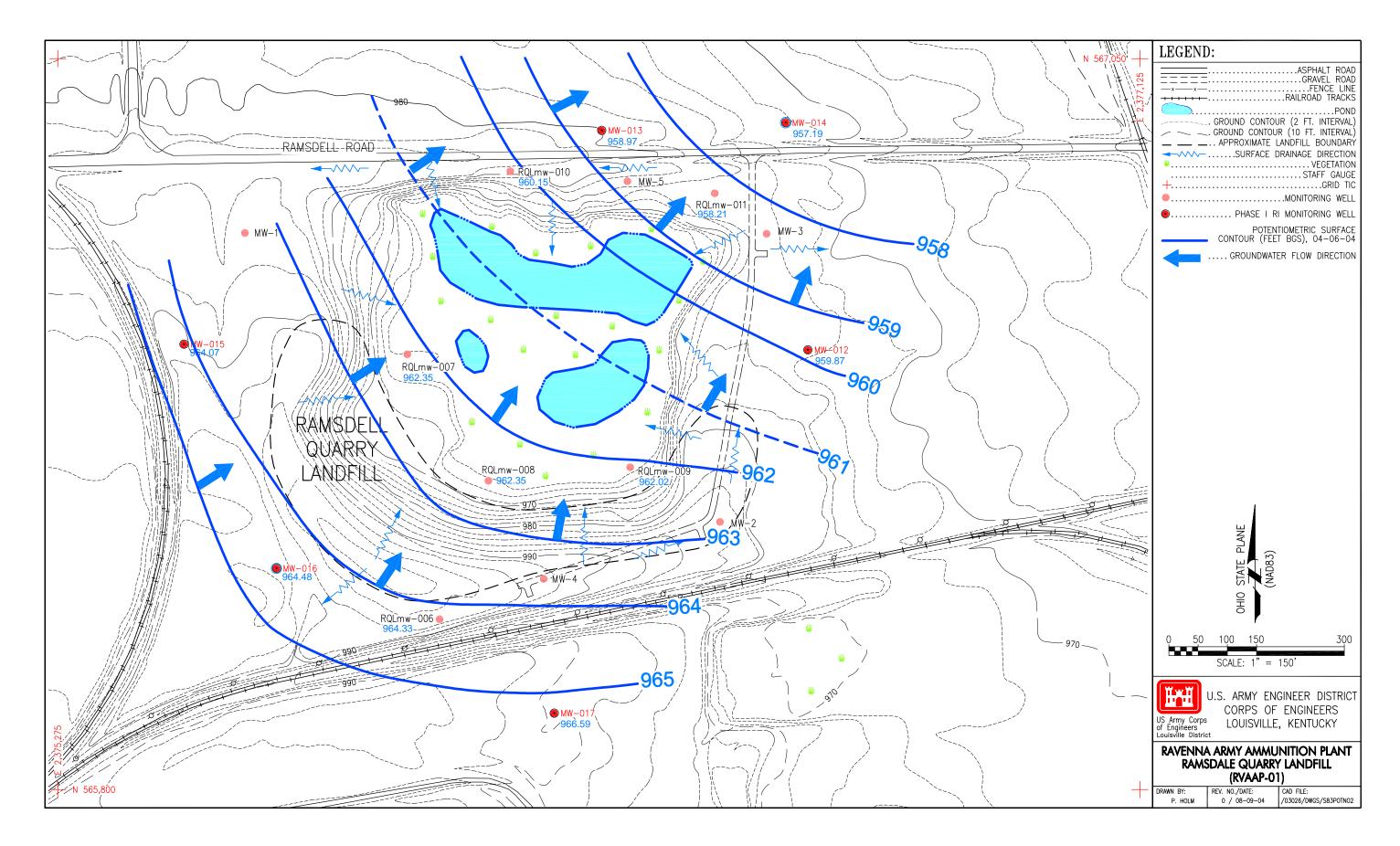
The groundwater characterization effort during the Phase I RI included: (1) the abandonment of wells MW-1, -2, -3, -4, and -5; (2) the installation of six additional monitoring wells both downgradient (north-northwest) and upgradient (south-southeast) of the AOC; and (3) sampling rounds of existing wells and water level measurements of existing and newly installed wells.

Explosives, propellants, semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs) were not detected in groundwater samples from the RI monitoring wells. Phase I RI samples contained low concentrations of 18 metals, 12 of which were considered to be site-related contaminants (SRCs) (maximum concentrations greater than site background criteria for filtered groundwater). Of these, arsenic, lead, and manganese were determined to be constituents of potential concern (COPCs) based on exposure concentrations above filtered site background criteria and/or Region 9 tap water criteria. One VOC, carbon disulfide, was detected in all six wells, but the maximum concentration was well below the Region 9 tap water criteria (Table 2-1). The most easterly well (RQLmw-012), sidegradient to RQL, and one of the furthest downgradient wells (RQLmw-013) had the highest percentage of detected inorganic SRCs, with 9 and 10 SRCs, respectively (Table 2-2). The adjacent downgradient well (RQLmw-014) and the two wells on the western side of the AOC (RQLmw-015 and -016) had the fewest number of inorganic SRCs detected, with five SRCs in RQLmw-014 and six SRCs each in RQLmw-015 and -016. RQLmw-017, located south of the AOC, had eight inorganic SRCs detected during the Phase I baseline sampling event.

Potentiometric data collected for the Phase I RI (April 2004) baseline showed that horizontal potentiometric gradients are consistently to the northeast across the site, which was consistent with results of the Groundwater Investigation in 1998 and 1999 (Figure 2-1).

#### 2.3 PHASE I REMEDIAL INVESTIGATION CONSTITUENTS OF POTENTIAL CONCERN

Phase I baseline COPCs in groundwater include lead, iron, and manganese, which exceeded U. S. Environmental Protection Agency (EPA) Region 9 tap water preliminary remediation goals (PRGs) (Table 2-1). Explosives, and trace levels of other organic compounds detected during the Groundwater Investigation in wells RQmw-006 through -011, were not detected in the Phase I RI groundwater wells RQmw-012 through -017.



2-4

Analyte (mg/L)	Results >Detection Limit	Average Result	Minimum Detect	Maximum Detect	95% UCL of Mean	Exposure Concentration	MCL	Max. Det.>MCL?	Site Background Criteria	Region 9 Tap Water Criteria	Max Detect > Tap Water Criteria	COPC?	Site Related?
						Metals							
Aluminum	3/ 6	1.27E+00	7.88E-02	6.13E+00	6.98E+06	6.13E+00	2.00E-01	Yes <sup>a</sup>		3.65E+01	No	No	Yes
Antimony	1/ 6	2.34E-04	5.80E-04	5.80E-04	3.74E-04	3.74E-04	6.00E-03	No		1.46E-02	No	No	Yes
Arsenic	4/6	2.13E-03	9.50E-04	6.80E-03	7.64E-02	6.80E-03	5.00E-02	No		4.48E-05	Yes	Yes	Yes
Barium	6/6	2.17E-02	4.20E-03	4.54E-02	3.32E-02	3.32E-02	2.00E+00	No	2.56E-01	2.55E+00	No	No	No
Beryllium	4/6	1.49E-04	7.60E-05	5.70E-04	2.31E-02	5.70E-04	4.00E-03	No		7.30E-02	No	No	Yes
Cadmium	2/6	2.37E-04	4.80E-04	7.00E-04	4.69E-04	4.69E-04	5.00E-03	No		1.82E-02	No	No	Yes
Calcium	6/6	1.11E+02	1.98E+01	4.52E+02	1.45E+03	4.52E+02		N/A	5.31E+01		None	No	No
Cobalt	6/6	2.65E-02	6.70E-03	7.00E-02	1.58E-01	7.00E-02		N/A		7.30E-01	No	No	Yes
Copper	3/ 6	1.55E-03	2.00E-03	3.40E-03	2.55E-03	2.55E-03	1.30E+00	No		1.46E+00	No	No	Yes
Iron	4/6	2.56E+00	8.20E-03	7.25E+00	5.07E+00	5.07E+00	3.00E-01	Yes <sup>a</sup>	1.43E+00	1.09E+01	No	No	No
Lead	2/6	3.92E-04	5.10E-04	1.30E-03	7.80E-04	7.80E-04	1.50E-02	No			None	Yes	Yes
Magnesium	6/6	2.26E+01	8.97E+00	5.73E+01	5.89E+01	5.73E+01		N/A	1.50E+01		None	No	No
Manganese	6/6	2.32E+00	2.66E-01	6.17E+00	4.42E+01	6.17E+00	5.00E-02	Yes <sup>a</sup>	1.34E+00	8.76E-01	Yes	Yes	Yes
Nickel	6/6	8.98E-02	1.64E-02	3.06E-01	1.04E+00	3.06E-01	1.00E-01	Yes	8.34E-02	7.30E-01	No	No	Yes
Potassium	6/6	3.27E+00	1.77E+00	5.02E+00	4.88E+00	4.88E+00		N/A	5.77E+00		None	No	No
Sodium	6/6	7.34E+00	1.50E+00	2.32E+01	4.03E+01	2.32E+01		N/A	5.14E+01		None	No	No
Vanadium	1/ 6	7.67E-04	1.60E-03	1.60E-03	1.10E-03	1.10E-03		N/A		2.55E-01	No	No	Yes
Zinc	6/6	1.03E-01	8.20E-03	3.12E-01	2.10E+01	3.12E-01	5.00E+00	No <sup>a</sup>	5.23E-02	1.09E+01	No	No	Yes
						Organics-Vola	ıtile						
Carbon Disulfide	6/6	2.67E-03	6.60E-04	7.90E-03	1.82E-02	7.90E-03		N/A		1.04E+00	No	No	Yes

#### Table 2-1. Summary of COPC Screening for Ramsdell Quarry Groundwater, Phase I RI (December 2003)

<sup>*a*</sup> - Secondary maximum contaminant level (MCL).

COPC = Constituent of potential concern.

N/A = Not available.

RI = Remedial investigation. UCL = Upper confidence limit.

Media		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
		Ramsdell	Ramsdell	Ramsdell	Ramsdell	Ramsdell	Ramsdell	Ramsdell
		Monitoring	Monitoring	Monitoring	Monitoring	Monitoring	Monitoring	Monitoring
Location		Well	Well	Well	Well	Well	Well	Well
Station		RQLmw-012		RQLmw-013				
Sample ID		RQ0139	RQ0160	RQ0140 RQLmw-013-	RQ0141	RQ0142	RQ0143	RQ0144
Customer ID		0139-GW	0160-GW	0140-GW	0141-GW	0142-GW	0143-GW	0144-GW
Date		12/02/2003	12/02/2003	12/02/2003	12/02/2003	12/04/2003	12/04/2003	12/01/2003
			Field					
Field Type		Grab	Duplicate	Grab	Grab	Grab	Grab	Grab
Analyte	<b>.</b>							
(mg/L)	Units			D' 1 11	<b>7 1</b> .			
	17	1.00		Dissolved M		0.0000 11	0.0410.11	0.0700 *
	mg/L	1.38 = *	1.4 = *	6.13 = *	0.0105 U	0.0298 U	0.0413 U	0.0788 = *
Antimony	mg/L	0.00033 U	0.00033 U	0.00033 U	0.00033 U	0.00058 J *	0.00033 U	0.00033 U
Arsenic	mg/L	0.00055 U	0.00055 U	0.002 = *	0.00055 U	0.0068 = *	0.0025 = *	0.00095 J *
Barium	mg/L	0.0238 J	0.024 J	0.0454 J	0.0138 J	0.0042 =	0.0261 =	0.0167 J
Beryllium	mg/L	0.000076 J *	0.000083 =	0.00057 = *	0.000021 U	0.000021 U	0.000076 J *	0.00015 = *
Cadmium	mg/L	0.0007 = *	0.00075 = *	0.00048 = *	0.00012 U	0.00012 U	0.00012 U	0.00012 U
Calcium	mg/L	50.6 =	51.1 =	19.8 =	40.2 =	20.4 =	452 = *	81.3 = *
Cobalt	mg/L	0.0084 = *	0.0085 = *	0.0452 = *	0.0067 = *	0.0141 = *	0.0143 = *	0.07 = *
Copper	mg/L	0.0034 J *	0.0037 J *	0.002 J *	0.001 UJ	0.0021 U	0.00024 U	0.0022 J *
Iron	mg/L	0.0082 J	0.0189 J	4.6 = *	3.47 = *	0.0134 U	7.25 = *	0.0065 U
Lead	mg/L	0.0013 = *	0.0014 = *	0.00051 J *	0.00018 U	0.00043 U	0.00029 U	0.00018 U
Magnesium	mg/L	13.6 =	13.8 =	11.9 =	17.3 = *	8.97 =	57.3 = *	26.3 = *
Manganese	mg/L	0.266 =	0.27 =	0.584 =	1.59 = *	0.682 =	6.17 = *	4.63 = *
Nickel	mg/L	0.0202 =	0.0205 =	0.0906 = *	0.0164 =	0.0437 =	0.062 =	0.306 = *
Potassium	mg/L	5.02 =	5.08 =	2.87 =	4.04 =	1.77 =	2.67 =	3.24 =
Sodium	mg/L	3.63 =	3.68 =	23.2 =	3.79 =	1.5 =	6.82 =	5.12 =
Vanadium	mg/L	0.0012 U	0.0012 U	0.0012 U	0.0016 J *	0.0012 U	0.0012 U	0.0012 U
Zinc	mg/L	0.0415 =	0.0433 =	0.235 = *	0.0111 =	0.0082 J	0.0097 J	0.312 = *
				Volatile Org	anics			
Carbon Disulfide	mg/L	0.00066 J	0.0017 =	0.0025 =	0.00069 J	0.0033 =	0.0079 =	0.00095 J
Chloromethane	mg/L	0.001 U	0.0038 =	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

 Table 2-2. Detected Analytes in Ramsdell Quarry Phase I RI Wells Baseline Event (December 2003)

ID = Identifier.

RI = Remedial investigation. RQL = Ramsdell Quarry Landfill.

Qualifiers:

\* = Value above facility-wide background.
 = Analysis present and concentration accurate.
 J = Estimated values less than reporting limits.

U = Non-detect.

## 3.0 MAY 2004 WET SEASON SAMPLING

Prior to purging and sampling for the May 2004 sampling event of the Phase I RI groundwater monitoring wells, water level measurements were taken at each of the six newly installed groundwater wells (RQLmw-012 through -017), as well as the existing groundwater wells (RQLmw-006 through -011). Wells RQLmw-012 through -017 were also sampled for chemical analysis.

#### 3.1 WATER LEVEL MEASUREMENTS

Table 3-1 presents the results of water level measurements under high flow conditions. Figure 3-1 shows the groundwater potentiometric surface based on the second event water level measurements.

Well ID	Elev. Top of PVC	Depth to Water	Groundwater Elevation
		( <b>f</b> t)	
RQLmw-006	995.39	30.10	965.29
RQLmw-007	965.91	3.33	962.58
RQLmw-008	966.08	3.38	962.7
RQLmw-009	964.58	2.12	962.46
RQLmw-010	982.14	21.77	960.37
RQLmw-011	976.57	18.15	958.42
RQLmw-012	977.65	17.54	960.11
RQLmw-013	980.71	21.55	959.16
RQLmw-014	973.49	16.17	957.32
RQLmw-015	991.26	26.36	964.90
RQLmw-016	996.60	30.16	966.44
RQLmw-017	991.23	23.29	967.94

 Table 3-1. Groundwater Elevations from Second Event Sampling (May 2004)

ID = Identifier.

PVC = Polyvinyl chloride.

Potentiometric data collected immediately before the second (May 2004) sampling event of the investigation continue to show that horizontal potentiometric gradients are consistently to the northeast across the site. The gradient reversals observed during the Groundwater Investigation water level measurements were not noted during May 2004 at the time the water level measurements were taken. The water table was elevated by 1 to 2 ft compared to measurements taken in early April, 2004, and a gradient of nearly 11 ft existed between the most upgradient well (RQLmw-017) and the most downgradient well (RQLmw-014). The difference between these two wells during the previous event was only 8 ft.

#### 3.2 MONITORING WELL SAMPLING

Following AOC-wide groundwater level measurements, groundwater samples were collected from each of the six Phase I RI monitoring wells. Per the SAP Addendum for the Phase I RI, wet season/storm event sampling was to occur within 24 hrs of a rainfall event of 1 in. or more. Due to the lack of such substantial single rain events during the wet season period, relief from this specific requirement was provided by Ohio EPA and USACE so long as wet season, high flow conditions were represented.

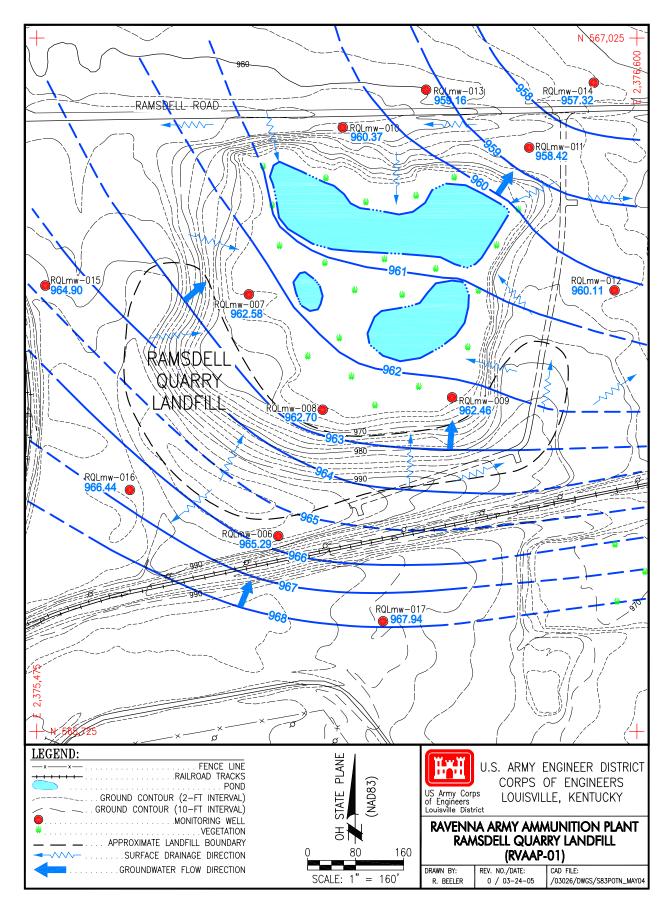


Figure 3-1. Groundwater Potentiometric Map, Second Event (May 2004)

Sampling started on May 19, 2004, following a total of 0.28 in. of rainfall that fell over the preceding 4 days (May 15 through 18, 2004). Additional rainfall occurred on May 20, 2004 (0.3 in.), and May 21, 2004 (0.68 in.), during the course of the sampling event. Thus, the May 2004 samples are deemed to be representative of high flow conditions.

The procedure for sampling is detailed in Section 4.3.4.2 of the Facility-wide Sampling and Analysis Plan (USACE 2001). All groundwater samples from RQL were analyzes for target analyte list (TAL) metals (filtered only), explosives, propellants, cyanide, VOCs, SVOCs, and pesticides/PCBs. Despite being developed in accordance with work plan specifications and using micropurge sampling methods, where possible, to obtain the lowest turbidity wells practicable, turbidity levels remained above 5 nephelometric turbidity units in most wells. Accordingly, only filtered metals samples were obtained. Groundwater samples analyzed for TAL metals were filtered during sample collection using an in-line, disposable barrel filter with 0.45-um pores. For those wells with slow recharge rates where micro-purge techniques were not applicable (RQLmw-015, -016, and -017), samples for TAL metals were filtered using a negative pressure, hand-operated vacuum pump and collection flask with a 0.45-um pore size filter. Analytical program overview for the wet season event sampling was consistent with that for the baseline sampling during the Phase I RI. Groundwater sampling logs are presented in Appendix A; and complete analytical results for all sampling events are included in Appendix B.

#### 3.3 RESULTS

Table 3-2 presents the summary statistics for the second round sampling event. A total of 11 inorganic and 2 organic SRCs were detected in the wet season samples. Arsenic, lead, and manganese exceeded the EPA Region 9 tap water criteria, and are considered to be COPCs. However, it should be noted that while arsenic and manganese exceeded the PRG (in the case of lead, no Region 9 tap water criteria exist), the maximum concentration of both metals was below other promulgated criteria. The federal and Ohio MCL for arsenic is 0.05 mg/L, and the maximum detected concentration in May 2004 was 0.0012 mg/L. Likewise, for lead, the federal treatment technique standard is 0.015 mg/L, and the maximum detected concentration in May 2004 was 0.0036 mg/L. Two phthalates, bis(2-ethylhexyl)phthalate and di-n-butyl phthalate, were detected in the May 2004 analysis. Di-n-butyl phthalate was below the Region 9 tap water criteria, and is not considered a COPC. All six wells had detections of phthalates during the second sampling event, and none were detected during the Phase I RI baseline event. Conversely, carbon disulfide was detected in all wells during the Phase I RI baseline event, but was not detected in May 2004.

Vanadium, which was detected in one well during the Phase I RI baseline event, was not detected in the May 2004 samples. The southernmost well, RQLmw-017, had the greatest number of inorganic SRCs detected, with 10 of 11 SRCs having their maximum concentrations at this well (Table 3-3). Downgradient well RQLmw-013 also contained 10 SRCs, with the maximum concentration of arsenic at this location (arsenic was not detected in RQLmw-017). The eastern boundary well RQLmw-012 contained nine SRCs, and downgradient wells RQLmw-014, -015, and -016 each contained six SRCs.

The explosives noted in groundwater during the 1998/1999 Groundwater Investigation were not detected in any Phase I RI groundwater well in the 2003 and 2004 baseline and wet season sample events. It can be concluded that the bounds of explosive contamination in groundwater have been adequately defined, and explosive contaminant migration is not occurring off the AOC. The continual low concentrations of metals detected are fairly indicative of landfill environments, and concentrations continue to fall below applicable Ohio MCLs.

Analyte (mg/L)	Results >Detection Limit	Average Result	Minimum Detect	Maximum Detect	95% UCL of Mean	Exposure Concentration	MCL	Max. Det.>MCL?	Site Background Criteria	Region 9 Tap Water Criteria	Max Detect > Tap Water Criteria	COPC?	Site Related?
						Metals							
Aluminum	3/ 6	2.77E+00	6.56E-01	1.14E+01	1.11E+10	1.14E+01	2.00E-01	Yes <sup>a</sup>		3.65E+01	No	No	Yes
Arsenic	2/ 6	4.73E-04	9.40E-04	1.20E-03	8.60E-04	8.60E-04	5.00E-02	No		4.48E-05	Yes	Yes	Yes
Barium	6/6	1.92E-02	2.00E-03	3.16E-02	2.92E-02	2.92E-02	2.00E+00	No	2.56E-01	2.55E+00	No	No	No
Beryllium	4/6	5.35E-04	3.10E-05	2.70E-03	7.22E+00	2.70E-03	4.00E-03	No		7.30E-02	No	No	Yes
Cadmium	3/ 6	3.85E-04	2.10E-04	1.50E-03	4.62E-03	1.50E-03	5.00E-03	No		1.82E-02	No	No	Yes
Calcium	6/6	4.34E+01	1.85E+01	1.26E+02	1.32E+02	1.26E+02		N/A	5.31E+01		None	No	No
Chromium	4/6	1.97E-03	1.80E-03	4.80E-03	9.02E-03	4.80E-03	1.00E-01	No			None	Yes	Yes
Cobalt	6/6	1.81E-02	8.80E-04	5.33E-02	1.24E+00	5.33E-02		N/A		7.30E-01	No	No	Yes
Iron	4/6	3.01E+00	3.06E+00	6.74E+00	5.20E+00	5.20E+00	3.00E-01	Yes <sup>a</sup>	1.43E+00	1.09E+01	No	No	No
Lead	6/6	9.60E-04	2.00E-04	3.60E-03	1.06E-02	3.60E-03	1.50E-02	No			None	Yes	Yes
Magnesium	6/6	1.21E+01	8.73E+00	1.96E+01	1.69E+01	1.69E+01		N/A	1.50E+01		None	No	No
Manganese	6/6	2.19E+00	2.14E-01	7.08E+00	7.36E+01	7.08E+00	5.00E-02	Yes	1.34E+00	8.76E-01	Yes	Yes	Yes
Nickel	6/6	4.56E-02	1.00E-02	1.36E-01	4.71E-01	1.36E-01	1.00E-01	Yes <sup>a</sup>	8.34E-02	7.30E-01	No	No	Yes
Potassium	6/6	2.92E+00	1.29E+00	3.93E+00	3.74E+00	3.74E+00		N/A	5.77E+00		None	No	No
Selenium	1/ 6	2.49E-04	4.70E-04	4.70E-04	3.38E-04	3.38E-04	5.00E-02	No		1.82E-01	No	No	Yes
Sodium	6/6	6.44E+00	9.15E-01	1.92E+01	7.12E+01	1.92E+01		N/A	5.14E+01		None	No	No
Zinc	6/6	1.96E-01	2.27E-02	7.81E-01	6.42E+00	7.81E-01	5.00E+00	No <sup>a</sup>	5.23E-02	1.09E+01	No	No	Yes
					Organ	ics-Semivolatile							
Bis(2-ethylhexyl)phthalate	6/6	9.48E-03	3.10E-03	2.20E-02	4.20E-02	2.20E-02	6.00E-03	Yes		4.80E-03	Yes	Yes	Yes
Di-n-butyl phthalate	5/6	2.45E-03	1.50E-03	2.00E-03	3.89E-03	2.00E-03		N/A		3.65E+00	No	No	Yes

Table 3-2. Summary of COPC Screening for Ramsdell Quarry Groundwater - Wet Season (May 2004)

<sup>*a*</sup> - Secondary maximum contaminant level (MCL). COPC = Constituent of potential concern.

N/A = Not available. UCL = Upper confidence limit.

Media		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
		Ramsdell	Ramsdell	Ramsdell	Ramsdell	Ramsdell	Ramsdell	Ramsdell
Location					Monitoring Well			
Station		ROLmw-012	ROLmw-013	RQLmw-013	ROLmw-014	ROLmw-015	ROLmw-016	ROLmw-017
Sample ID		RO0151	RQ0152	RQ0159	RQ0153	RO0154	RQ0155	RO0156
<b>F</b>		ROLmw-012-	RQLmw-013-	RQLmw-013-	RQLmw-014-	RQLmw-015-	RQLmw-016-	RQLmw-017-
Customer ID		0151-GW	0152-GW	0159-GW	0153-GW	0154-GW	0155-GW	0156-GW
Date		05/20/2004	05/19/2004	05/19/2004	05/19/2004	05/21/2004	05/21/2004	05/19/2004
Field Type		Grab	Grab	Field Duplicate	Grab	Grab	Grab	Grab
Analyte (mg/L)	Units			-				
				Dissolved Metals				
Aluminum	mg/L	0.656 = *	4.53 = *	4.56 = *	0.0151 U	0.0245 U	0.0248 U	11.4 = *
Arsenic	mg/L	0.00035 U	0.0012 J *	0.0014 = *	0.00035 U	0.00035 U	0.00094 J *	0.00035 U
Barium	mg/L	0.0301 =	0.0316 =	0.0321 =	0.0276 =	0.002 =	0.0112 =	0.0125 =
Beryllium	mg/L	0.000061 J *	0.00039 = *	0.00037 = *	0.000025 U	0.000031 J *	0.000025 U	0.0027 = *
Cadmium	mg/L	0.00021 J *	0.00033 J *	0.00036 J *	0.00018 U	0.00018 U	0.00018 U	0.0015 = *
Calcium	mg/L	28.6 =	22.5 =	22.4 =	21 =	18.5 =	126 = *	43.5 =
Chromium	mg/L	0.0019 J *	0.0022 J *	0.0011 U	0.0018 J *	0.0011 U	0.0011 U	0.0048 = *
Cobalt	mg/L	0.0064 = *	0.0338 = *	0.0348 = *	0.0094 = *	0.00088 = *	0.0048 = *	0.0533 = *
Iron	mg/L	0.0186 U	3.33 = *	3.37 = *	6.74 = *	0.0232 U	4.88 = *	3.06 = *
Lead	mg/L	0.00095 = *	0.00033 J *	0.00041 J *	0.0002 J *	0.00043 J *	0.00025 J *	0.0036 = *
Magnesium	mg/L	8.73 =	11.9 =	11.7 =	10.3 =	8.77 =	19.6 = *	13.3 =
Manganese	mg/L	0.214 =	0.461 =	0.469 =	2.08 = *	0.854 =	2.44 = *	7.08 = *
Nickel	mg/L	0.0223 =	0.0724 =	0.0735 =	0.0193 =	0.0133 =	0.01 =	0.136 = *
Potassium	mg/L	3.93 =	2.46 =	2.44 =	2.67 =	1.29 =	3.89 =	3.27 =
Selenium	mg/L	0.00041 U	0.00041 U	0.00041 U	0.00041 U	0.00041 U	0.00041 U	0.00047 J *
Sodium	mg/L	2.39 =	19.2 =	19.4 =	4.01 =	0.915 =	7.14 =	4.99 =
Zinc	mg/L	0.0399 J	0.179 J *	0.187 J *	0.0227 J	0.115 J *	0.0402 J	0.781 J *
				mivolatile Organics				
Bis(2-ethylhexyl)phthalate	mg/L	0.022 =	0.004 J	0.0033 J	0.0033 J	0.0031 J	0.015 =	0.0095 J
Di-n-butyl phthalate	mg/L	0.002 J	0.0015 J	0.0015 J	0.002 J	0.012 U	0.0015 J	0.0017 J

#### Table 3-3. Detected Analytes in Ramsdell Quarry Phase I RI Wells, Wet Season Sampling Event (May 2004)

ID = Identifier.

RI = Remedial investigation. RQL = Ramsdell Quarry Landfill

Qualifiers:

\* = Value above facility-wide background criterion.

= = Analyte present and concentration accurate.

J = Estimated value less than reporting limits.

U = Non-detect.

It was noted that several wells exhibited low pH readings during the May 2004 sampling event (e.g., RQLmw-012 had a pH value of 3.95 and RQLmw-017 had pH values of 3.13 to 3.68). The reason for this is not known. In the December 2003 (baseline) sampling, RQLmw-012 and -013 both had low pH readings (3.8 to 3.9 range), while the pH for RQLmw-017 was slightly acidic to normal (5 to 6.13 range).

### 4.0 REFERENCES

USACE (U. S. Army Corps of Engineers) 1996. Preliminary Assessment for the Ravenna Army Ammunition Plant, Ravenna, Ohio, DACA62-94-D-0029, D.O. 0009, Final, February.

USACE (U. S. Army Corps of Engineers) 1999. *Initial Phase Report on the Groundwater Investigation, Ramsdell Quarry Landfill, Ravenna Army Ammunition Plant, Ravenna, Ohio*, DACA27-97-D-0025, D.O. 003, Final, January.

USACE (U. S. Army Corps of Engineers) 2000. *Final Phase Report on the Groundwater Investigation of the Ramsdell Quarry Landfill, Ravenna Army Ammunition Plant, Ravenna, Ohio*, DACA27-97-D-0025, D.O. 003, August.

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USACE (U. S. Army Corps of Engineers) 2004. Phase I Remedial Investigation Report for Ramsdell Quarry Landfill at the Ravenna Army Ammunition Plant, F44650-D-99-0007, D.O. CY11, Ravenna, Ohio, August.

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# APPENDIX A

# **GROUNDWATER SAMPLING LOGS**

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	sdell Quarry Phase I F	DELIVERY	ORDER NO. CTIT
e (mm/dd/yy): 05/19/	04 SUM TU	W Th F Sa PAG	ieOF
toc-wide water	, and s		
arrative (include time and	location):	to Van Drive to	Nuncino I samulia
La Usac Water le	ZDI Follow - an	Samadina 218M	punging sampling + SRA 3/16/01
	21.77	0929	
11.00 10	18-15	0933	
12	17.54	0937	5-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
N9	2.17	0942	
08	3.38	0946	N
- 06	30.10	0952	
16	30.16	0957	
67	3.53	1004	-
15	26.36	1009	
13	21.55	1013	
14	16.17	1016	
17	23.29	1059	
(well ID)	(depth [ft] below top of casing)	(time [a.m])	51RA 3/16/05
	top of casing)		
aily Weather Conditions:	A.M		
Р	.M	hu	Abdus Blile
Recorded By	Ń.	QA Checked By	Abstur 3/10/00

29 TASK TEAM ACTIVITY LOG SHEET **DELIVERY ORDER NO:** T NAME: Ramsdell Quarry Phase I RI PAGE / OF / Date (mm/dd/yy):  $5/2\phi/44$  Su M Tu W Th F Sa Kelly Milner Martha Clough 50PR-8/12/04 RQLMW-012 Narrative (include time and location): Arrive & set up for sampling, H, O @ 17.6' bgs. Start pump - take initial readings in Sample ROØISI collected for fullsvite analysis Record final readings w/ Horiba analysis 200 sumy w/ clouds Daily Weather Conditions: A.M. QA Checked By Recorded By

	WELL PURGE RECORD
PROJECT NAME: Rame	dell Quarry Phase'l Ri
	Page 3 of 4
Date: 5120144	Time:
Well Number and Location:	ROL-mw Ø12
Purge Crew:	Kelly Milner Martna Clough
	Mertha Clough
Date and Time: Begin:	$5/2\phi/\phi_{1}/\phi_{45}$ Completed: $5/2\phi/\phi_{1}/13\phi$
Purge Method(S):	Bladder pump

gals

Total Quantity of Water Removed: \_\_\_\_/5

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A REAL PROPERTY OF THE R.

FIELD MEASUREMENT SERIAL NUMBER DATE OF LAST CALIBRATION Horiba U-22 15073 Temperature 5/20/04 **Specific Conductivity** Heron DpperT Horiba U-22 15073 Water Level 5/20/04 pH

Kelt Recorded By: nature and Date)

QA Check By: \_

(Signature and Date)

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				maserial			i Antonia in State	PA	ORDER NO: CY11 GEOF
DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
5/20/04	1100	Ø	14.4	Ø.191	5.04	276	Ø		initial readings
1	11\$5	\$.5	11.0	Ø.284	3.95	237	Ø.5		0
	1110	¢.5	10.8	Ø. 281	4.10	168	1.4		
	1115	Ø.5	10.6	Ø. 281	4.13	124	1.5		params stable
	1120								idlect sample
$\checkmark$	1200	¢	11.6	¢.295	4.53	53	1.5		params stable collect sample final readings
- 1									

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(Signature and Date) 5/20184

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TASK TEAM ACTIVITY LOG SHEET
PROJECT NAME: Ramsdell Quarry Phase I RI Control DELIVERY ORDER NO: CY11
Date (mm/dd/yy): 5/19/04 SUM TUW TH F Sa PAGE OF 4
Kelly Milner
Martha Clough
Narrative (include time and location):
1140- Arrive & set up for sampling @ Rolmw-013 1145- start pump- take readings w/ Horiba
1145- start pump- take readings w/ Horiba
1215 - Sample Rodisz collected for full
Suite analysis (Rodi59 - Nuplicate
also collected)
Daily Weather Conditions: A.M. 75° (10004)
P.M QA Checked By

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DATE OF LAST CALIBRATION FIELD MEASUREMENT SERIAL NUMBER 5/19/44 Horiba U-22 15\$\$73 Temperature Specific Conductivity Heron Dipper T Water Level 5/19/04 Horiba U-22 15\$73 pH

Tell. Recorded By:

QA Check By: \_\_\_\_

(Signature and Date)

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(Signature and Date) \$5/09/04

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PROJECT/NAME: TEMSTELLO DETRY RESELTED

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DELIVERY ORDER NO: CY11

(Signature and Date)

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PAGE \_\_\_\_\_\_ OF \_\_\_\_\_

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WELL NUMBER AND LOCATION: RQL-mwd/3

(Signature and Date) 5/19/\$4

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
5/19/44	1145	¢.25	<i>μ.φ</i>	Ø.4Ø2	4.21	999	¢.25		initialreadings
[	1155	Ø.75	10.8	Ø441	4.14	360	1.4		U
	1205	1.4	14.9	\$,405	4.33	338	2.0		
	1212	1.15	11.4	\$.386	4.55	168	3.Ø		params stable
	1215								params stable collect sample final readings
$\checkmark$	1340		12.41	Ø. 382	5.46	128	3.Ø		Final readings
									J
								72	
		3 <b>*</b> 5				•			
						,			
RECORDED BY: Kells March (Signature and Date)									

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TASK TEAM ACTIVITY LOG SHEET
PROJECT NAME: Ramsdell Quarry Phase I RI
Date (mm/dd/yy): <u>5/19/44</u> Su M Tu W Th F Sa PAGE_/OF <u>4</u> <u>Martha Clough</u> <u>Kelly Milner</u>
Narrative (include time and location): <u>13\$\$\$\$- Arrive &amp; set up for sampling @ ROLMW-014</u> <u>14\$\$\$- Sample RO\$\$53 (&amp; MS[MSD] collected</u> <u>for full suite analysis-</u>
153¢- Finish Saupling
Daily Weather Conditions: A.M P.M

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	WELL PURGE RECORD sdell Quarry Phase I RL DELIVERY ORDER NO: CY11
PROJECTINAME	
Date: <u>5 19 44</u>	Time: <u>/3ØØ</u>
Well Number and Location:	ROL-mu Ø14
Purge Crew:	Kelly Milner Martha Clorgh
Date and Time: Begin	: $5/19/041 1300$ Completed: $5/19/041 1530$
Purge Method(S):	Bladder pump
Total Quantity of Water Rem	oved:

3	FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
	Temperature	Horiba U-22 15\$73	5/19/44
þ	Specific Conductivity	$\checkmark$	$\checkmark$
¢	Water Level	Heron Dipper T	
	рН	Horiba U-22. 15073	5/19/\$4
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Recorded By: Kely (Signature and Date) 5/19/44

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QA Check By: \_

(Signature and Date)

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# WELL PURCE RECOID

# PROJECTINAME: Ramsdel Charry Phase Hill

DELIVERY ORDER NO: CY11

PAGE \_\_\_\_\_ OF \_\_\_\_

WELL NUMBER AND LOCATION: Rol-mwd/4

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
5/19/44	1316	¢	13.5	Ø.237	5.97	>999	ø		initialreadings
ſ	1321	4.75	18.8	Ø.14Z	5.75	874	Ø.75		J
	1326	t.75	11.7	Ø.140	5.72	436	1.5		
	133/	¢.75	11.3	¢.146	5.74	168	2.25		
1	1336		11.3	Ø.157	5.73	104	2.25		
2									finalreadings
									not recorded,
			-						final readings not recorded, air line disconne
	1								
						.*.			
	· ~ ,	Ver	1.		1	QA CHEC			12 -
RECORDE	D BY:	(Signature an	d Date)	5/19/\$4		QA CHEC		Signature and I	Date)

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TASK TEAM ACTIVITY LOG SHEET PROJECT NAME: Ramsdell Quarry Phase I RI L. S. Water Date (mm/dd/yy):  $\frac{5/21}{44}$  Su M Tu W Th F Sa PAGE\_/\_\_OF\_\_\_\_ Kelly Milver Tortha Clough ROL-MW-015 58-R 8/12/04 Narrative (include time and location): For sampling H. OB 26.221 w set readingswy cord briha inter collected YOU amo alysis tinal readings recorded Dertly Daily Weather Conditions: A.M. P.M. QA Checked By Recorded By

- C. 2. dul			Page <u>3</u> of <u>4</u> Time: <u>\$845</u>
Date: <u>5   2    44</u> Well Number and Locat	tion: <u> </u>	DL-MWØrs	Time: $\varphi_{3} \varphi_{3}$
Purge Crew:			
Date and Time:	Begin: <u>5/2</u>	1/441 0845 Comp	eted: <u>5/21/441/415</u>
Purge Method(S):		ladder pump	
Total Quantity of Wate	r Removed:	1. J gals	

5/21/04
$\checkmark$
5/21/\$4

Recorded By: <u>Kach Dut</u> (Signature and Date) 5/21/\$4

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# WELLE PLICE RECORD

PROJECT NAME REMSELLOURIN/ PRASE URI

DELIVERY ORDER NO: CYIL PAGE \_\_\_\_\_ OF \_\_\_\_

WELL NUMBER AND LOCATION:

RQL-mw Ø15

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
5/21/04	\$850	ø	18.7	¢.231	6.51	78.5	$\phi$		initial readings
	0855	Ø.5	14.3	¢.195	5.63	159	0.5		, , , , , , , , , , , , , , , , , , ,
	date	¢.25	13.5	Ø.188	5.54	118	Ø.75		
	0905	Q.25	12.9	Ø.185	5,53	63	1.0		params statue sample collected fing/readings
	\$915								sample collected
	1445		14.1	d.197	6.12	85	1.\$		finalreadings
	,,,			/					
						•			
L			1 P.						L]
RECORDE	о вү: <u>Х</u>	(Signature and	1 Data)	-Instan		QA CHEC	л b1:(	Signature and D	Date)

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(Signature and Date) 5/21/09

TASK TEAM ACTIVITY LOG SHEET
PROJECT NAME: Ramsdell Quarry Phase I RI DELIVERY ORDER NO: CY11
Date (mm/dd/yy): 05/20/04 SUM TUW Th F Sa PAGE_/OF_4
Kelly Milner
Mortha Clough
•
Narrative (include time and location): 
\$910- Stort Builing - record initial Horiba
readings
1315 - Return for more buckets
1415 - Well duj - Will return in morning to sample
5/21/04 1033- Sample RODISI collected for ful Suite analysis
1050 - Final Horiba readings
3
Daily Weather Conditions: A.M. 75F, day
P.M
Recorded By QA Checked By

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BOJECT NAME: Ba	WELL PURGE RECORD msdell Quarry Phase I RI
	Page of
Date: 05/20/04	Time:
Vell Number and Location:	ROL-mw \$16
Purge Crew:	Kelly Milner
	Martna Clough
Date and Time: Beg	in: 15/20/04/ 0900 Completed: 05/21/04/ 11000
Purge Method(S):	Bailer (plastic disposable)

4	FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
-	Temperature	Hor: ba 15\$73	5/20/04
ō.	Specific Conductivity	4	$\checkmark$
ç.	Water Level	Heron Dipper T	
	рН	Horiba 15073	5/20/04
		16	
*. 			

Recorded By: <u>Cleshow</u> (Signature and Date) 5/2¢/¢4

QA Check By: \_\_\_\_\_\_(Signature and Date)

# WELL PURCERECORD PROJECT MAMER Remodell Querry Brase will PAGE 4 OF 4 WELL NUMBER AND LOCATION: Row d(6

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
5/20/44	\$91¢	ø	MA 11.7	1.55	6.23	142	\$ +1:mg		initial readings begin bailing du go back for more bucker
1	1200								begin bailing day
	1315	16	to				16		go back for more bucker
*	1415	7	123				23		well is dry return in morning Hz0=29.91' collectson final readingr
5/21/44	1\$35								Hz0=29.91' collectsan
4	1\$5\$		14.5	¢.941	6.26	233	23		final readings
	.4			$\sim$	ospi	64 .			
			<	P	φυ				
							· · · · · · · · · · · · · · · · · · ·		<i>a a a a a a a a a a</i>
		,							
RECORDE	ову:	(Signature and	d Date)	Ø5/21/Ø4		QA CHEC	CK BY:	(Signature and I	Date)

67.7

10.0

TASK TEAM ACTIVITY LOG SHEET ROJECT NAME: Ramsdell Quarry Phase I RI 2 million 5/19/04 PAGE\_/ OF 9 Date (mm/dd/yy): Su M Tu W Th F Sa Kelly Milner Martha Clough Narrative (include time and location): Arrive & set up for sampling. Q. ROL-mw \$17 1100 This well has very little water & very slow recharge - will bail dry Sample Initial readings recorded Final readings recorded Partly cloudy 75 Daily Weather Conditions: ( A.M. P.M. QA Checked By Recorded By

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00	
ZER®DEFFEDFUELE 144%D +®MEEEFE®™EEMEE®	
Page <u>3</u> of <u>4</u>	
Time: 11 \$\$\varphi\$	

Date: 5/19/04

Well Number and Location:

PRONIEGININAMIER TELINE

Purge Crew:

ROL-MU \$17 Kelly Milner Martna Clough

Date and Time:

Begin: <u>\$5/19/44, 1180</u> Completed: <u>\$5/19/44, 1788</u> disp. bailer

Purge Method(S):

,

)

Total Quantity of Water Removed: 2-9

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	Horiba U-22 15\$73	5/19/44
Specific Conductivity	$\downarrow$	ł
Water Level	Heron Dipper T	
рН	Horiba V.22 15073	5/19/04

\_gals

**Recorded By:** (Signature and Date)

osliglay

QA Check By: \_\_\_

(Signature and Date)

# WERE HELETCOLE STROUGHER

FICTER WINE REDECT CHARACTER

THAN SHOULD BE WILLING WIELD

PAGE \_ Y\_OF \_ Y

5

WELL NUMBER AND LOCATION: ROL-mw 017

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
5/19/44	11\$4	$\phi$	11.4	\$.745	3./3	72	ø		initialreadings final readings
5/19/44	11\$4 1625	2.Ø	11.9	0.668	3.68	585	2.4		final readings
				12					
		,							
-									

RECORDED BY:

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(Signature and Date) \$\$/19/\$4

(Signature and Date)

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**APPENDIX B** 

## ANALYTICAL LABORATORY DATA TABLES

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**Baseline Sampling Event** 

December 2003

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Station: RQLmw-012 Sample ID: RQ0139 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Grab

Date Collected: 12/02	2003 Field Sample Type: Grab			1.10			Detection		
Analysis	Chemical	Result	Units		Data Qual	Code	Detection Limit	Dilution	
Cyanide	GPL								
SW846 9014T	Cyanide	0.01	mg/L	U	U		0.01	1	
Explosives	GPL								
SW846 8330	1,3,5-Trinitrobenzene	0.00016	-	U			0.00016	1	
	1,3-Dinitrobenzene	0.00016	mg/L	U	U		0.00016	1	
	2,4,6-Trinitrotoluene	0.00016		U	U	2253555	0.00016	1	
	2,4-Dinitrotoluene	0.00016		U	UJ	P01	0.00016	1	
	2,6-Dinitrotoluene	0.00016		U	U		0.00016	1	
	2-Amino-4,6-Dinitrotoluene	0.00016		U	U		0.00016	1	
	2-Nitrotoluene	0.00032		U	U	-	0.00032	1	
	3-Nitrotoluene	0.00032	0	U	UJ		0.00032	1	
	4-Amino-2,6-Dinitrotoluene	0.00016		U	UJ	P01	0.00016	1	
	4-Nitrotoluene	0.00032	-	U	U	127212	0.00032	1	
	НМХ	0.00032		U		P01	0.00032	1	
	Nitrobenzene	0.00016		U	U		0.00016	1	
SW846 9056M	Nitrocellulose		mg/L	U		D05,P02	0.18	1	
SW846 8330	Nitroglycerin	0.016		U		1712-1712-0-0	0.016	1	
	Nitroguanidine		mg/L	U			0.01	1	
	RDX	0.00032		U		P01	0.00032	1	
	Tetryl	0.00032	mg/L	U	U		0.00032	1	
Filtered Inorganics	GPL								
SW846 6020	Aluminum		mg/L	17.7	=		0.0105	1	
	Antimony	0.00033		U			0.00033	1	
	Arsenic	0.00055	-	U			0.00055	1	
	Barium	0.0238	•	1.22	J	F10	0.00018	1	
	Beryllium	0.000076		В			0.000021	1	
	Cadmium	0.0007			=		0.00012	1	
	Calcium		mg/L		=		0.0316	1	
	Chromium	0.00091		U	U		0.00091	1	
	Cobalt	0.0084	-		=		0.000025	1	
	Copper	0.0034			J	F10	0.000067	1	
	Iron	0.0082	mg/L	В	J		0.0065	1	
	Lead	0.0013	mg/L		=		0.00018	1	
	Magnesium	13.6	mg/L		=		0.0038	1	
	Manganese	0.266	mg/L		=		0.000095	1	
SW846 7470A	Mercury	0.0001	mg/L	U	U		0.0001	1	
SW846 6020	Nickel	0.0202	mg/L		=		0.0003	1	
	Potassium	5.02	mg/L		=		0.0384	1	
	Selenium	0.0019	mg/L	B	U	F01,F06	0.0013	2	
	Silver	0.00014	mg/L	U	U		0.00014	1	
	Sodium		mg/L		=		0.0343	1	
	Thallium	0.00063	mg/L		U	F01,F07	0.00015	1	
	Vanadium	0.0012	mg/L	U	U U		0.0012	1	
	Zinc	0.0415	mg/L		=		0.0006	1	
Pesticides and PCBs	GPL								
SW846 8081A	4,4'-DDD	0.00007	mg/L	U			0.00007	1	
	4,4'-DDE	0.00007		L	U.	P02	0.00007	1	
	4,4'-DDT	0.00007		L			0.00007	1	
	Aldrin	0.00007	mg/L	L	61 13:523		0.00007	1	
	alpha-BHC	0.00007		L	U.	P02	0.00007	1	
	alpha-Chlordane	0.00007	mg/L	U	J U.	P02	0.00007	1	
	beta-BHC	0.00007		L	U U		0.00007	1	
	delta-BHC	0.00007	mg/L	L	U U		0.00007	1	
	Dieldrin	0.00007	mg/L	L	U U.	P02	0.00007	1	
	Dicidini								
	Endosulfan I	0.00007	mg/L	L	JU.	J P02	0.00007	1	
		0.00007 0.00007		L			0.00007	1 1	

Station: RQLmw-012

	2/2003 Field Sample T					Detection	
Analysis	Chemical	Result Units	Qual (	Qual	Code	Limit	Dilution
Pesticides and PCBs	GPL						
SW846 8081A	Endrin	0.00007 mg/L	U	U		0.00007	1
	Endrin aldehyde	0.00007 mg/L	U	U		0.00007	1
	Endrin ketone	0.00007 mg/L	U	UJ	P02	0.00007	1
	gamma-Chlordane	0.00007 mg/L	U	UJ	P02	0.00007	1
	Heptachlor	0.00007 mg/L	U	U		0.00007	1
	Heptachlor epoxide	0.00007 mg/L	U	UJ	P02	0.00007	1
	Lindane	0.00007 mg/L	U	U		0.00007	1
	Methoxychlor	0.00007 mg/L	U	U		0.00007	1
SW846 8082	PCB-1016	0.00065 mg/L	U	U		0.00065	1
	PCB-1221	0.00065 mg/L	U	U		0.00065	1
	PCB-1232	0.00065 mg/L	U	U		0.00065	1
	PCB-1242	0.00065 mg/L	U	U		0.00065	1
	PCB-1248	0.00065 mg/L	Ŭ	Ū		0.00065	1
	PCB-1254	0.00065 mg/L	ŭ	Ŭ		0.00065	1
	PCB-1254 PCB-1260	0.00065 mg/L	ŭ	ŭ		0.00065	1
CIN046 0004 A		그는 것 같은 것 같	U	Ŭ		0.00003	1
SW846 8081A	Toxaphene	0.0013 mg/L	0	0		0.0015	
Semi-Volatile Organics	GPL						
SW846 8270C	1,2,4-Trichlorobenzene	0.013 mg/L	U	υ		0.013	1
	1,2-Dichlorobenzene	0.013 mg/L	U	U		0.013	1
	1.3-Dichlorobenzene	0.013 mg/L	U	U		0.013	1
	1,4-Dichlorobenzene	0.013 mg/L	U	U		0.013	1
	2,4,5-Trichlorophenol	0.013 mg/L	U	U		0.013	1
	2,4,6-Trichlorophenol	0.013 mg/L	U	U		0.013	1
	2,4-Dichlorophenol	0.013 mg/L	Ū	U		0.013	1
	2,4-Dimethylphenol	0.013 mg/L	Ŭ	Ū		0.013	1
		0.026 mg/L	Ŭ	Ŭ		0.026	1
	2,4-Dinitrophenol	0.013 mg/L	U	Ŭ		0.013	1
	2,4-Dinitrotoluene	0.013 mg/L	Ŭ	Ŭ		0.013	1
	2,6-Dinitrotoluene		υ	Ŭ			1
	2-Chloronaphthalene	0.013 mg/L		100		0.013	
	2-Chlorophenol	0.013 mg/L	U	U		0.013	1
	2-Methyl-4,6-dinitrophenol	0.026 mg/L	U	U		0.026	1
	2-Methylnaphthalene	0.013 mg/L	U	U		0.013	1
	2-Methylphenol	0.013 mg/L	U	U		0.013	1
	2-Nitrobenzenamine	0.013 mg/L	U	U		0.013	1
	2-Nitrophenol	0.013 mg/L	U	U		0.013	1
	3,3'-Dichlorobenzidine	0.026 mg/L	U	U		0.026	1
	3-Nitrobenzenamine	0.013 mg/L	U	U		0.013	1
	4-Bromophenyl phenyl ether	0.013 mg/L	U	U		0.013	1
	4-Chloro-3-methylphenol	0.013 mg/L	U	U		0.013	1
	4-Chlorobenzenamine	0.013 mg/L	U	U		0.013	1
	4-Chlorophenyl phenyl ether	0.013 mg/L	U	U		0.013	1
	4-Methylphenol	0.013 mg/L	U	υ		0.013	1
	4-Nitrobenzenamine	0.013 mg/L	U	U		0.013	1
	4-Nitrophenol	0.026 mg/L	Ŭ	Ū		0.026	1
	Acenaphthene	0.013 mg/L	Ŭ	Ŭ		0.013	1
	Acenaphthylene	0.013 mg/L	Ŭ	Ŭ		0.013	1
	Anthracene	0.013 mg/L	ŭ	Ŭ		0.013	i
		0.013 mg/L	U	U		0.013	1
	Benz(a)anthracene	0.013 mg/L	U	U		0.013	1
	Benzenemethanol		U	U			1
	Benzo(a)pyrene	0.013 mg/L	5785	10.00		0.013	1
	Benzo(b)fluoranthene	0.013 mg/L	U	U		0.013	
	Benzo(ghi)perylene	0.013 mg/L	U	U		0.013	1
	Benzo(k)fluoranthene	0.013 mg/L	U	U		0.013	1
	Benzoic acid	0.026 mg/L	U	U		0.026	1
	Bis(2-chloroethoxy)methane	0.013 mg/L	U	U		0.013	1

Station: RQLmw-012 Sample ID: RQ0139 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Grab

ation Detection de Limit Dilution 0.013 1 0.013 1 ,F06 0.013 1 0.013 1 0.013 1 0.013 1 0.013 1 0.013 1
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	2/2002	Tunni Crah						
Date Collected: 12/0						Validation		<b>D</b> 11 (1
Analysis	Chemical	Result	Units	Qual	Qual	Code	Limit	Dilution
Volatile Organics	GPL				20.04		5 1.00 Mit 2010	
SW846 8260B	Dimethylbenzene	0.001		U	U		0.001	1
	Ethylbenzene	0.001		U	U		0.001	1
	Methylene chloride	0.0011	-	В	U	F01,F07	0.001	1
	Styrene	0.001	-	U	U		0.001	1
	Tetrachloroethene	0.001		U	U		0.001	1
	Toluene	0.001	-	U	U		0.001	1
	trans-1,3-Dichloropropene	0.001		U	U		0.001	1
	Trichloroethene	0.001		U	U		0.001	1
	Vinyl chloride	0.001	mg/L	Ų	U		0.001	1
Station: RQL								
Sample ID: RQU		Media: Groundy	vater					
Date Collected: 12/0		Type: Field Du						
Analysis	Chemical	Result	Unite		Data Qual	Validation Code	Detection Limit	Dilution
Analysis		Result	onits	Qual	uual	Code	Linit	Diution
Cyanide SW846 9014T	GPL Cyanide	0.01	mg/L	U	U		0.01	1
Explosives	GPL	0.01	ing/L	0	0		0.01	27 <u>1</u>
SW846 8330	1,3,5-Trinitrobenzene	0.00016	mg/L	U	U		0.00016	1
	1,3-Dinitrobenzene	0.00016		Ŭ			0.00016	1
	2,4,6-Trinitrotoluene	0.00016		Ŭ	Ŭ		0.00016	1
	2,4-Dinitrotoluene	0.00016	-	Ŭ		P01	0.00016	1
	2,6-Dinitrotoluene	0.00016		Ŭ			0.00016	i
	2-Amino-4,6-Dinitrotoluene	0.00016	100 C	Ŭ	_		0.00016	1
	2-Nitrotoluene	0.00031		Ŭ			0.00031	1
	3-Nitrotoluene	0.00031		ŭ	1102	P01	0.00031	1
	4-Amino-2,6-Dinitrotoluene	0.00016		Ŭ			0.00016	1
	4-Nitrotoluene	0.00031		U		PUT	0.00013	1
	HMX	0.00031		U		P01	0.00031	1
				U		PUT		1
014/04/0 005/014	Nitrobenzene	0.00016		0.55		DO5 000	0.00016	
SW846 9056M	Nitrocellulose		mg/L	U		D05,P02		1
SW846 8330	Nitroglycerin	0.016		U	1175/00	404	0.016	1
	Nitroguanidine		mg/L	U			0.01	1
	RDX	0.00031	-	U		P01	0.00031	1
Filtered Inorganics	Tetryl GPL	0.00031	mg/L	U	U		0.00031	1
SW846 6020	Aluminum	14	mg/L		=		0.0105	1
0.1040 0020	Antimony	0.00033	1. The second	U			0.00033	4
	Arsenic	0.00055		Ŭ			0.00055	1
	Barium	0.00055		0	J	F10	0.00018	1
	Beryllium	0.000083			=	110	0.000021	1
	Cadmium	0.00075	-		=		0.00012	1
	Calcium		mg/L				0.00012	1
	Chromium	0.00091		U			0.00091	1
	Cobalt	0.00091		0	=		0.000025	1
	Copper	0.0085	-		J	F10	0.000025	1
		0.0037	-	в		110	0.00067	1
	Iron	0.0189		Б	J =			
	Lead						0.00018	1
	Magnesium		mg/L		=		0.0038	1
00000 21201	Manganese		mg/L		=		0.000095	1
SW846 7470A	Mercury	0.0001		U			0.0001	1
SW846 6020	Nickel	0.0205	=		=		0.0003	1
	Potassium		mg/L	14	=		0.0384	1
	Selenium	0.0022	-	В		F01,F06	0.0013	2
	Silver	0.00014		U	1.00		0.00014	1
	Sodium	0.00	mg/L		=		0.0343	1

	2/2003 Field Sample 1	JPor Field Depilouto	I ah I	lata 1	/alidation	Detection	
Analysis	Chemical	<b>Result Units</b>	Qual		Code	Limit	Dilution
Filtered Inorganics	GPL						
SW846 6020	Thallium	0.00058 mg/L	В	U	F01,F06	0.00015	1
	Vanadium	0.0012 mg/L	U	U		0.0012	1
	Zinc	0.0433 mg/L		=		0.0006	1
Pesticides and PCB	s GPL						
SW846 8081A	4,4'-DDD	0.00007 mg/L	U	UJ	P02	0.00007	1
	4,4'-DDE	0.00007 mg/L	U	UJ	P02	0.00007	1
	4,4'-DDT	0.00007 mg/L	U	U		0.00007	1
	Aldrin	0.00007 mg/L	U	UJ	P02	0.00007	1
	alpha-BHC	0.00007 mg/L	U	UJ	P02	0.00007	1
	alpha-Chlordane	0.00007 mg/L	U	UJ	P02	0.00007	1
	beta-BHC	0.00007 mg/L	υ	U		0.00007	1
	delta-BHC	0.00007 mg/L	U	U		0.00007	1
	Dieldrin	0.00007 mg/L	U	UJ	P02	0.00007	1
	Endosulfan I	0.00007 mg/L	U	UJ	P02	0.00007	1
	Endosulfan II	0.00007 mg/L	U	UJ	P02	0.00007	1
	Endosulfan sulfate	0.00007 mg/L	U	U		0.00007	1
	Endrin	0.00007 mg/L	U	U		0.00007	1
	Endrin aldehyde	0.00007 mg/L	U	U		0.00007	1
	Endrin ketone	0.00007 mg/L	U	UJ	P02	0.00007	1
	gamma-Chlordane	0.00007 mg/L	U	UJ	P02	0.00007	1
	Heptachlor	0.00007 mg/L	U	U		0.00007	1
	Heptachlor epoxide	0.00007 mg/L	U	UJ	P02	0.00007	1
	Lindane	0.00007 mg/L	U	U		0.00007	1
	Methoxychlor	0.00007 mg/L	U	U		0.00007	1
SW846 8082	PCB-1016	0.00065 mg/L	U	U		0.00065	1
	PCB-1221	0.00065 mg/L	U	U		0.00065	1
	PCB-1232	0.00065 mg/L	U	U		0.00065	1
	PCB-1242	0.00065 mg/L	U	U		0.00065	1
	PCB-1248	0.00065 mg/L	U	U		0.00065	1
	PCB-1254	0.00065 mg/L	U	U		0.00065	1
	PCB-1260	0.00065 mg/L	U	U		0.00065	1
SW846 8081A	Toxaphene	0.0013 mg/L	U	U		0.0013	1
Semi-Volatile Organics	GPL						
SW846 8270C	1,2,4-Trichlorobenzene	0.013 mg/L	U	U		0.013	1
	1.2-Dichlorobenzene	0.013 mg/L	Ŭ	Ŭ		0.013	1
	1,3-Dichlorobenzene	0.013 mg/L	ŭ	ŭ		0.013	1
	1.4-Dichlorobenzene	0.013 mg/L	Ŭ	Ŭ		0.013	1
	2,4,5-Trichlorophenol	0.013 mg/L	ŭ	ŭ		0.013	i
	2,4,6-Trichlorophenol	0.013 mg/L	Ŭ	ŭ		0.013	1
	2,4-Dichlorophenol	0.013 mg/L	Ŭ	U		0.013	1
	2,4-Dimethylphenol	0.013 mg/L	Ŭ	Ŭ		0.013	1
	2,4-Dinitrophenol	0.026 mg/L	Ŭ	Ŭ		0.026	1
	2,4-Dinitrotoluene	0.013 mg/L	Ū	ũ		0.013	1
	2,6-Dinitrotoluene	0.013 mg/L	Ŭ	Ŭ		0.013	1
	2-Chloronaphthalene	0.013 mg/L	Ŭ	Ŭ		0.013	i
	2-Chlorophenol	0.013 mg/L	Ŭ	Ŭ		0.013	1
	2-Methyl-4,6-dinitrophenol	0.026 mg/L	Ŭ	Ŭ		0.026	1
	2-Methylnaphthalene	0.013 mg/L	Ŭ	ŭ		0.013	1
	2-Methylphenol	0.013 mg/L	Ŭ	ŭ		0.013	1
	2-Nitrobenzenamine	0.013 mg/L	Ŭ	Ŭ		0.013	1
	2-Nitrophenol	0.013 mg/L	Ŭ	ŭ		0.013	1
	3,3'-Dichlorobenzidine	0.026 mg/L	Ŭ	ŭ		0.026	1
	3-Nitrobenzenamine	0.013 mg/L	ŭ	ŭ		0.013	i
	4-Bromophenyl phenyl ether	0.013 mg/L	Ŭ	Ŭ		0.013	i
	4-Chloro-3-methylphenol	0.013 mg/L	Ŭ	Ŭ		0.013	1

Station: RQLmw-012 Sample ID: RQ0160 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Field Duplicate

Analysis	Chemical	<b>Result Units</b>	Qual Qu	ta Validation al Code	Limit	Dilution
emi-Volatile Irganics	GPL					
W846 8270C	4-Chlorobenzenamine	0.013 mg/L		U	0.013	1
	4-Chlorophenyl phenyl ether	0.013 mg/L	U	U	0.013	1
	4-Methylphenol	0.013 mg/L	U	U	0.013	1
	4-Nitrobenzenamine	0.013 mg/L	U	U	0.013	1
	4-Nitrophenol	0.026 mg/L	U	U	0.026	1
	Acenaphthene	0.013 mg/L	U	U	0.013	1
	Acenaphthylene	0.013 mg/L	U	U	0.013	1
	Anthracene	0.013 mg/L	U	U	0.013	1
	Benz(a)anthracene	0.013 mg/L	U	U	0.013	1
	Benzenemethanol	0.013 mg/L	U	U	0.013	1
	Benzo(a)pyrene	0.013 mg/L	U	U	0.013	1
	Benzo(b)fluoranthene	0.013 mg/L	U	U	0.013	1
	Benzo(ghi)perylene	0.013 mg/L	U	U	0.013	1
	Benzo(k)fluoranthene	0.013 mg/L	Ŭ	Ŭ	0.013	i
	Benzoic acid	0.026 mg/L	Ŭ	Ŭ	0.026	i
	Bis(2-chloroethoxy)methane	0.013 mg/L	Ŭ	U	0.028	1
	Bis(2-chloroethyl) ether	0.013 mg/L	U	U	0.013	1
	Bis(2-chloroisopropyl) ether	0.013 mg/L	Ŭ	U		
					0.013	1
	Bis(2-ethylhexyl)phthalate	0.013 mg/L	JB	U F01,F06	0.013	1
	Butyl benzyl phthalate	0.013 mg/L	U	U	0.013	1
	Carbazole	0.013 mg/L	U	U	0.013	1
	Chrysene	0.013 mg/L	U	U	0.013	1
	Di-n-butyl phthalate	0.013 mg/L	JB	U F01,F06	0.013	1
	Di-n-octylphthalate	0.013 mg/L	U	U	0.013	1
	Dibenz(a,h)anthracene	0.013 mg/L	U	U	0.013	1
	Dibenzofuran	0.013 mg/L	U	U	0.013	1
	Diethyl phthalate	0.013 mg/L	U	U	0.013	1
	Dimethyl phthalate	0.013 mg/L	U	U	0.013	1
	Fluoranthene	0.013 mg/L	U	U	0.013	1
	Fluorene	0.013 mg/L	U	U	0.013	1
	Hexachlorobenzene	0.013 mg/L	U	U	0.013	1
	Hexachlorobutadiene	0.013 mg/L	U	U	0.013	1
	Hexachlorocyclopentadiene	0.013 mg/L	U	U	0.013	1
	Hexachloroethane	0.013 mg/L	U	U	0.013	1
	Indeno(1,2,3-cd)pyrene	0.013 mg/L	Ŭ	U	0.013	1
	Isophorone	0.013 mg/L	ŭ	ŭ	0.013	1
	N-Nitroso-di-n-propylamine	0.013 mg/L	Ŭ	Ŭ	0.013	1
	N-Nitrosodiphenylamine	0.013 mg/L	Ŭ	Ŭ	0.013	1
	Naphthalene	0.013 mg/L	U	U	0.013	1
	Nitrobenzene	0.013 mg/L	U	U		1
			1977	10.00	0.013	
	Pentachlorophenol	0.026 mg/L	U	U	0.026	1
	Phenanthrene	0.013 mg/L	U	U	0.013	1
	Phenol	0.013 mg/L	U	U	0.013	1
	Pyrene	0.013 mg/L	U	U	0.013	1
Volatile Organics	GPL	0.007				
SW846 8260B	1,1,1-Trichloroethane	0.001 mg/L	U	U	0.001	1
	1,1,2,2-Tetrachloroethane	0.001 mg/L	U	U	0.001	1
	1,1,2-Trichloroethane	0.001 mg/L	U	U	0.001	1
	1,1-Dichloroethane	0.001 mg/L	U	U	0.001	1
	1,1-Dichloroethene	0.001 mg/L	U	U	0.001	1
	1,2-Dibromoethane	0.001 mg/L	U	U	0.001	1
	1,2-Dichloroethane	0.001 mg/L	U	U	0.001	1
	1,2-Dichloroethene	0.001 mg/L	U	U	0.001	1
	1,2-Dichloropropane	0.001 mg/L	U	υ	0.001	1

Station: RQLmw-012

Sample ID: RQ0 Date Collected: 12/0	a second s	edia: Groundwater ype: Field Duplicate		ata Validation	Detection	
Analysis	Chemical	<b>Result Units</b>	Qual Q		Limit	Dilution
Volatile Organics	GPL					
SW846 8260B	2-Hexanone	0.005 mg/L	U	U	0.005	1
	4-Methyl-2-pentanone	0.005 mg/L	U	U	0.005	1
	Acetone	0.005 mg/L	JB	U F01,F06	0.005	1
	Benzene	0.001 mg/L	U	U	0.001	1
	Bromochloromethane	0.001 mg/L	U	U	0.001	1
	Bromodichloromethane	0.001 mg/L	U	U	0.001	1
	Bromoform	0.001 mg/L	U	U	0.001	1
	Bromomethane	0.001 mg/L	U	U	0.001	1
	Carbon disulfide	0.0017 mg/L		=	0.001	1
	Carbon tetrachloride	0.001 mg/L	U	U	0.001	1
	Chlorobenzene	0.001 mg/L	U	U	0.001	1
	Chloroethane	0.001 mg/L	U	U	0.001	1
	Chloroform	0.001 mg/L	U	U	0.001	1
	Chloromethane	0.0038 mg/L		=	0.001	1
	cis-1,3-Dichloropropene	0.001 mg/L	U	U	0.001	1
	Dibromochloromethane	0.001 mg/L	U	U	0.001	1
	Dimethylbenzene	0.001 mg/L	U	U	0.001	1
	Ethylbenzene	0.001 mg/L	U	U	0.001	1
	Methylene chloride	0.0012 mg/L	в	U F01,F07	0.001	1
	Styrene	0.001 mg/L	U	U	0.001	1
	Tetrachloroethene	0.001 mg/L	U	U	0.001	1
	Toluene	0.001 mg/L	U	U	0.001	1
	trans-1,3-Dichloropropene	0.001 mg/L	U	U	0.001	1
	Trichloroethene	0.001 mg/L	U	υ	0.001	1
	Vinyl chloride	0.001 mg/L	U	U	0.001	1

Station: RQLmw-013 Sample ID: RQ0140 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Grab

Date Collected: 12/02	2/2003 Field Sample	2003 Field Sample Type: Grab				Detection	
Analysis	Chemical	Result Un		Qual	Code	Detection Limit	Dilution
Cyanide	GPL						
SW846 9014T	Cyanide	0.01 mg	I/L U	U		0.01	1
xplosives	GPL						
W846 8330	1,3,5-Trinitrobenzene	0.00016 mg		U		0.00016	1
	1,3-Dinitrobenzene	0.00016 mg		U		0.00016	1
	2,4,6-Trinitrotoluene	0.00016 mg	202	U		0.00016	1
	2,4-Dinitrotoluene	0.00016 mg	10.0 GE	UJ	P01	0.00016	1
	2,6-Dinitrotoluene	0.00016 mg		U		0.00016	1
	2-Amino-4,6-Dinitrotoluene	0.00016 mg	11.17	U		0.00016	1
	2-Nitrotoluene	0.00032 mg		U	-	0.00032	1
	3-Nitrotoluene	0.00032 mg		UJ	P01	0.00032	1
	4-Amino-2,6-Dinitrotoluene	0.00016 mg		UJ	P01	0.00016	1
	4-Nitrotoluene	0.00032 mg		U	DOA	0.00032	1
	HMX	0.00032 mg		UJ	P01	0.00032	1
NA 40 00501	Nitrobenzene	0.00016 mg		U	DOC DOO	0.00016	1
SW846 9056M	Nitrocellulose	0.18 mg	2017 State	UJ	D05,P02		1
SW846 8330	Nitroglycerin	0.016 mg		U	404	0.016	1
	Nitroguanidine	0.01 mg	4.21C 121C	UJ		0.01	1
	RDX	0.00032 mg	(P.1.0) 5.50		PUT	0.00032	1
illered Incomentee	GPL Tetryl	0.00032 mg	J/L 0	0		0.00032	1
Filtered Inorganics		0.40		1.04		0.0105	
SW846 6020	Aluminum	6.13 mg	2078 ° 2008	=		0.0105	1
	Antimony	0.00033 mg				0.00033	1
	Arsenic	0.002 mg		=	E40	0.00055	1
	Barium	0.0454 mg		J	F10	0.00018	1
	Beryllium	0.00057 mg		=		0.000021	1
	Cadmium	0.00048 mg	1200	=		0.00012	1
	Calcium	19.8 mg 0.00091 mg				0.0316	
	Chromium Cobalt			=		0.00091	1
		0.0452 mg 0.002 mg		J	F10	0.000023	1
	Copper	100		=	FIU		1
	Iron Lead	4.6 mg 0.00051 mg				0.0065	1
	Magnesium			=		0.00018 0.0038	1
		11.9 mg 0.584 mg		=			1
SW846 7470A	Manganese					0.000095	1
	Mercury	0.0001 mg 0.0906 mg		=		0.0001	1
SW846 6020	Nickel Potassium			-		0.0003	1
	Selenium	2.87 mg			F01,F06	0.0384	2
		0.0025 mg 0.00014 mg			F01,F00	0.0013	1
	Silver Sodium	23.2 mg		=		0.00014	1
	Thallium	0.0014 mg		- U	F07	0.00015	1
	Vanadium	0.0014 mg			FUT	0.0012	1
	Zinc	0.235 mg		=		0.0006	1
Pesticides and PCBs		0.200 mg	9/L			0.0000	
SW846 8081A		0.00006 m	a/L U	UJ	P02	0.00006	
3W040 000 IA	4,4'-DDD	0.00006 mg				0.00006	1
	4,4'-DDE 4,4'-DDT	0.00006 mg			102	0.00006	1
	Aldrin	0.00006 mg	- 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997		P02		1
		0.00006 mg				0.00006	1
	alpha-BHC alpha-Chlordane	0.00006 mg				0.00006	1
	alpha-Chlordane beta-BHC	0.00006 mg			P02	0.00006	
		0.00006 mg				0.00006	1
	delta-BHC Dieldrin	0.00006 mg			P02	0.00006	1
	Endosulfan I	0.00006 mg	T			0.00006	1
	Endosulfan II	0.00006 mg				0.00006	1
	Endosulfan sulfate	0.00006 mg			F02	0.00006	1
	Chuosulan sullate	0.00000 mg		. 0		0.00000	

Station: RQLmw-013

	/2003 Field Sample T		Lab [	)ata \	Validation	Detection	
Analysis	Chemical	Result Units	Qual C	Qual	Code	Limit	Dilution
Pesticides and PCBs	GPL						
SW846 8081A	Endrin	0.00006 mg/L	U	U		0.00006	1
	Endrin aldehyde	0.00006 mg/L	U	U		0.00006	1
	Endrin ketone	0.00006 mg/L	U	UJ	P02	0.00006	1
	gamma-Chlordane	0.00006 mg/L	U	UJ	P02	0.00006	1
	Heptachlor	0.00006 mg/L	υ	U		0.00006	1
	Heptachlor epoxide	0.00006 mg/L	U	UJ	P02	0.00006	1
	Lindane	0.00006 mg/L	U	U		0.00006	1
	Methoxychlor	0.00006 mg/L	U	U		0.00006	1
SW846 8082	PCB-1016	0.00062 mg/L	U	U		0.00062	1
	PCB-1221	0.00062 mg/L	U	U		0.00062	1
	PCB-1232	0.00062 mg/L	U	U		0.00062	1
	PCB-1242	0.00062 mg/L	U	U		0.00062	1
	PCB-1248	0.00062 mg/L	U	U		0.00062	1
	PCB-1254	0.00062 mg/L	U	U		0.00062	1
	PCB-1260	0.00062 mg/L	U	U		0.00062	1
SW846 8081A	Toxaphene	0.0012 mg/L	U	U		0.0012	1
Semi-Volatile Organics	GPL						
SW846 8270C	1.2.4-Trichlorobenzene	0.012 mg/L	U	U		0.012	1
	1.2-Dichlorobenzene	0.012 mg/L	U	U		0.012	1
	1,3-Dichlorobenzene	0.012 mg/L	Ŭ	Ŭ		0.012	1
	1,4-Dichlorobenzene	0.012 mg/L	Ŭ	Ŭ		0.012	1
	2,4,5-Trichlorophenol	0.012 mg/L	Ŭ	Ũ		0.012	1
	2,4,6-Trichlorophenol	0.012 mg/L	Ŭ	Ŭ		0.012	1
	2,4-Dichlorophenol	0.012 mg/L	Ŭ	Ŭ		0.012	1
	2,4-Dimethylphenol	0.012 mg/L	Ŭ	Ŭ		0.012	1
	2,4-Dinitrophenol	0.025 mg/L	Ŭ	Ŭ		0.025	i
	2,4-Dinitrotoluene	0.012 mg/L	Ŭ	ŭ		0.012	1
	2.6-Dinitrotoluene	0.012 mg/L	ŭ	ŭ		0.012	1
	2-Chloronaphthalene	0.012 mg/L	Ŭ	Ŭ		0.012	1
		0.012 mg/L	Ŭ	ŭ		0.012	1
	2-Chlorophenol		U	U		0.012	1
	2-Methyl-4,6-dinitrophenol	0.025 mg/L	2.55	U			1
	2-Methylnaphthalene	0.012 mg/L	U	-		0.012	1
	2-Methylphenol	0.012 mg/L	U	U		0.012	1
	2-Nitrobenzenamine	0.012 mg/L	U	U		0.012	1
	2-Nitrophenol	0.012 mg/L	U	U		0.012	1
	3,3'-Dichlorobenzidine	0.025 mg/L	U	U		0.025	1
	3-Nitrobenzenamine	0.012 mg/L	U	U		0.012	1
	4-Bromophenyl phenyl ether	0.012 mg/L	U	U		0.012	1
	4-Chloro-3-methylphenol	0.012 mg/L	U	U		0.012	1
	4-Chlorobenzenamine	0.012 mg/L	U	U		0.012	1
	4-Chlorophenyl phenyl ether	0.012 mg/L	U	U		0.012	1
	4-Methylphenol	0.012 mg/L	U	U		0.012	1
	4-Nitrobenzenamine	0.012 mg/L	U	U		0.012	1
	4-Nitrophenol	0.025 mg/L	U	U		0.025	1
	Acenaphthene	0.012 mg/L	U	U		0.012	1
	Acenaphthylene	0.012 mg/L	U	U		0.012	1
	Anthracene	0.012 mg/L	U	υ		0.012	1
	Benz(a)anthracene	0.012 mg/L	U	U		0.012	1
	Benzenemethanol	0.012 mg/L	U	U		0.012	1
	Benzo(a)pyrene	0.012 mg/L	U	U		0.012	1
	Benzo(b)fluoranthene	0.012 mg/L	U	U		0.012	1
	Benzo(ghi)perylene	0.012 mg/L	U	U		0.012	1
	Benzo(k)fluoranthene	0.012 mg/L	U	U		0.012	1
	Benzoic acid	0.025 mg/L	U	U		0.025	1
	Bis(2-chloroethoxy)methane	0.012 mg/L	U	U		0.012	1

Station: RQLmw-013 Sample ID: RQ0140 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Grab

Date Collected: 12/02	2/2003 Field Sample Type: Grab				Detection	
nalysis	Chemical	<b>Result Units</b>	Qual Q	ata Validation tual Code	Limit	Dilution
iemi-Volatile Drganics	GPL					
W846 8270C	Bis(2-chloroethyl) ether	0.012 mg/L	U	U	0.012	1
	Bis(2-chloroisopropyl) ether	0.012 mg/L	Ŭ	Ŭ	0.012	ાં
	Bis(2-ethylhexyl)phthalate	0.012 mg/L	JB	U F01,F06	0.012	1
	Butyl benzyl phthalate	0.012 mg/L	U	U	0.012	1
	Carbazole	0.012 mg/L	U	Ŭ	0.012	1
	Chrysene	0.012 mg/L	Ŭ	ŭ	0.012	1
	Di-n-butyl phthalate	0.012 mg/L	Ŭ	ŭ	0.012	1
	Di-n-octylphthalate	0.012 mg/L	Ŭ	Ŭ	0.012	1
	Dibenz(a,h)anthracene	0.012 mg/L	U	ŭ	0.012	1
			U	U		1
	Dibenzofuran Diathud abth clata	0.012 mg/L			0.012	
	Diethyl phthalate	0.012 mg/L	U	U	0.012	1
	Dimethyl phthalate	0.012 mg/L	U	U	0.012	1
	Fluoranthene	0.012 mg/L	U	U	0.012	1
	Fluorene	0.012 mg/L	U	U	0.012	1
	Hexachlorobenzene	0.012 mg/L	U	U	0.012	1
	Hexachlorobutadiene	0.012 mg/L	U	U	0.012	1
	Hexachlorocyclopentadiene	0.012 mg/L	U	U	0.012	1
	Hexachloroethane	0.012 mg/L	U	U	0.012	1
	Indeno(1,2,3-cd)pyrene	0.012 mg/L	U	U	0.012	1
	Isophorone	0.012 mg/L	U	U	0.012	1
	N-Nitroso-di-n-propylamine	0.012 mg/L	U	U	0.012	1
	N-Nitrosodiphenylamine	0.012 mg/L	U	U	0.012	1
	Naphthalene	0.012 mg/L	U	U	0.012	1
	Nitrobenzene	0.012 mg/L	U	U	0.012	1
	Pentachlorophenol	0.025 mg/L	U	U	0.025	1
	Phenanthrene	0.012 mg/L	Ŭ	Ŭ	0.012	1
	Phenol	0.012 mg/L	Ŭ	Ŭ	0.012	1
	Pyrene	0.012 mg/L	Ŭ	Ŭ	0.012	1
Volatile Organics	GPL	o.ore mgre			0.012	
SW846 8260B	1,1,1-Trichloroethane	0.001 mg/L	U	U	0.001	1
	1,1,2,2-Tetrachloroethane	0.001 mg/L	U	U	0.001	1
	1,1,2-Trichloroethane	0.001 mg/L	Ŭ	U	0.001	1
	1,1-Dichloroethane	0.001 mg/L	Ŭ	Ŭ	0.001	1
	1,1-Dichloroethene	0.001 mg/L	Ŭ	Ŭ	0.001	4
		0.001 mg/L	ŭ	Ŭ	0.001	1
	1,2-Dibromoethane		U	U		1
	1,2-Dichloroethane	0.001 mg/L	U		0.001	1
	4.0 Dishlamathana	0.001	11	1.1		
	1,2-Dichloroethene	0.001 mg/L	U	U	0.001	1
	1,2-Dichloropropane	0.001 mg/L	U	U	0.001	1
	1,2-Dichloropropane 2-Butanone	0.001 mg/L 0.005 mg/L	U U	U U	0.001 0.005	1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone	0.001 mg/L 0.005 mg/L 0.005 mg/L	U U U	U U U	0.001 0.005 0.005	1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L	U U U U	U U U U	0.001 0.005 0.005 0.005	1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L	ບ ບ ບ ບ		0.001 0.005 0.005 0.005 0.005	1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L	ບ ບ ບ ບ ບ		0.001 0.005 0.005 0.005 0.005 0.001	1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L	U U U U U U		0.001 0.005 0.005 0.005 0.005 0.001 0.001	1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L	ບ ບ ບ ບ ບ		0.001 0.005 0.005 0.005 0.005 0.001	1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L	U U U U U U		0.001 0.005 0.005 0.005 0.005 0.001 0.001	1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L	0 0 0 0 0 0 0 0		0.001 0.005 0.005 0.005 0.005 0.001 0.001 0.001	1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L			0.001 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001	1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L			0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.0025 mg/L 0.001 mg/L			0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.0025 mg/L 0.001 mg/L 0.001 mg/L			0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		U U U U U U U U U U U U U	0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L			0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1
	1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		U U U U U U U U U U U U U U U U	0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1

Sample ID: RQ0 Date Collected: 12/0		Media: Groundwater mple Type: Grab						
Analysis	Chemical	Result	Units		Data Qual	Validation Code	Detection Limit	Dilution
Volatile Organics	GPL							
SW846 8260B	Dimethylbenzene	0.001	mg/L	U	U		0.001	1
	Ethylbenzene	0.001	mg/L	U	υ		0.001	1
	Methylene chloride	0.0012	mg/L	В	U	F01,F07	0.001	1
	Styrene	0.001	mg/L	U	U		0.001	1
	Tetrachloroethene	0.001	mg/L	U	U		0.001	1
	Toluene	0.001	mg/L	U	U		0.001	1
	trans-1,3-Dichloropropene	0.001	mg/L	U	U		0.001	1
	Trichloroethene	0.001	mg/L	U	U		0.001	1
	Vinyl chloride	0.001	ma/L	U	U		0.001	1

Station: RQLmw-014 Sample ID: RQ0141 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Grab

Analysis         Chemical         Result Units         Qual Qual           Cyanide         GPL         U         U         U         U           SW846 9014T         Cyanide         0.01 mg/L         U         U         U         U         U           Explosives         GPL         SW846 8330         1,3,5-Trinitrobenzene         0.00016 mg/L         U	J J J J J J J J	Limit 0.001 0.00016 0.00016 0.00016 0.00016	Dilution           1           1           1           1           1           1
SW846 9014T         Cyanide         0.01 mg/L         U         U           Explosives         GPL           SW846 8330         1,3,5-Trinitrobenzene         0.00016 mg/L         U         U           1,3-Dinitrobenzene         0.00016 mg/L         U         U         U           2,4,6-Trinitrotoluene         0.00016 mg/L         U         U         U           2,4-Dinitrotoluene         0.00016 mg/L         U         U         U           2,4-Dinitrotoluene         0.00016 mg/L         U         U         U           2,6-Dinitrotoluene         0.00016 mg/L         U         U         U           2,6-Dinitrotoluene         0.00016 mg/L         U         U         U           2-Amino-4,6-Dinitrotoluene         0.00031 mg/L         U         U           3-Nitrotoluene         0.00031 mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00031 mg/L         U         U           MX         0.00031 mg/L         U         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroguanidine         0.016 mg/L         U         U           RDX	J J J J P01 J J J	0.00016 0.00016 0.00016 0.00016	1
Symbolic         GPL           SW846 8330         1,3,5-Trinitrobenzene         0.00016 mg/L         U         U           1,3-Dinitrobenzene         0.00016 mg/L         U         U         U           2,4,6-Trinitrotoluene         0.00016 mg/L         U         U         U           2,4-Dinitrotoluene         0.00016 mg/L         U         U         U           2,4-Dinitrotoluene         0.00016 mg/L         U         U         U           2,6-Dinitrotoluene         0.00016 mg/L         U         U         U           2-Amino-4,6-Dinitrotoluene         0.00016 mg/L         U         U         U           2-Nitrotoluene         0.00031 mg/L         U         U         U           3-Nitrotoluene         0.00031 mg/L         U         U         U           4-Amino-2,6-Dinitrotoluene         0.00031 mg/L         U         U         U           MXX         0.00031 mg/L         U         U         U         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U         U           RDX         0	J J J J P01 J J J	0.00016 0.00016 0.00016 0.00016	1
SW846 8330         1,3,5-Trinitrobenzene         0.00016 mg/L         U         U         U           1,3-Dinitrobenzene         0.00016 mg/L         U <t< td=""><td>J J IJ P01 J J J</td><td>0.00016 0.00016 0.00016</td><td></td></t<>	J J IJ P01 J J J	0.00016 0.00016 0.00016	
1,3-Dinitrobenzene       0.00016 mg/L       U       U         2,4,6-Trinitrotoluene       0.00016 mg/L       U       U         2,4-Dinitrotoluene       0.00016 mg/L       U       U         2,4-Dinitrotoluene       0.00016 mg/L       U       U         2,6-Dinitrotoluene       0.00016 mg/L       U       U         2,6-Dinitrotoluene       0.00016 mg/L       U       U         2-Amino-4,6-Dinitrotoluene       0.00031 mg/L       U       U         2-Nitrotoluene       0.00031 mg/L       U       U         3-Nitrotoluene       0.00031 mg/L       U       U         4-Amino-2,6-Dinitrotoluene       0.00031 mg/L       U       U         4-Amino-2,6-Dinitrotoluene       0.00031 mg/L       U       U         MX       0.00031 mg/L       U       U         Nitrotoluene       0.00031 mg/L       U       U         SW846 9056M       Nitrocellulose       0.18 mg/L       U       U         SW846 8330       Nitroglycerin       0.016 mg/L       U       U         RDX       0.00031 mg/L       U       U       U         RDX       0.00031 mg/L       U       U         RDX       0.00031 mg/L	J J IJ P01 J J J	0.00016 0.00016 0.00016	
2,4,6-Trinitrotoluene         0.00016 mg/L         U         U           2,4-Dinitrotoluene         0.00016 mg/L         U         U           2,6-Dinitrotoluene         0.00016 mg/L         U         U           2,6-Dinitrotoluene         0.00016 mg/L         U         U           2-Amino-4,6-Dinitrotoluene         0.00016 mg/L         U         U         U           2-Amino-4,6-Dinitrotoluene         0.00016 mg/L         U         U         U         U           2-Nitrotoluene         0.00031 mg/L         U         U         U         U         U           3-Nitrotoluene         0.00031 mg/L         U         U         U         U         U           4-Amino-2,6-Dinitrotoluene         0.00031 mg/L         U         U         U         U           4-Nitrotoluene         0.00031 mg/L         U         U         U         U           MX         0.00031 mg/L         U         U         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U         U           SW846 8330         Nitroguanidine         0.010 mg/L         U         U         U           RDX         0.00031 mg/L         U	J IJ P01 J J J	0.00016 0.00016	1
2,4-Dinitrotoluene         0.00016         mg/L         U         U           2,6-Dinitrotoluene         0.00016         mg/L         U         U           2-Amino-4,6-Dinitrotoluene         0.00016         mg/L         U         U           2-Amino-4,6-Dinitrotoluene         0.00016         mg/L         U         U           2-Nitrotoluene         0.00031         mg/L         U         U           3-Nitrotoluene         0.00031         mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00031         mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00031         mg/L         U         U           4-Nitrotoluene         0.00031         mg/L         U         U           HMX         0.00031         mg/L         U         U           SW846 9056M         Nitrocellulose         0.18         mg/L         U         U           SW846 8330         Nitroglycerin         0.016         mg/L         U         U           RDX         0.00031         mg/L         U         U         U           RDX         0.00031         mg/L         U         U           SW846 6020 <t< td=""><td>IJ P01 J J J</td><td>0.00016</td><td>5</td></t<>	IJ P01 J J J	0.00016	5
2,6-Dinitrotoluene         0.00016 mg/L         U         U           2-Amino-4,6-Dinitrotoluene         0.00016 mg/L         U         U           2-Nitrotoluene         0.00031 mg/L         U         U           3-Nitrotoluene         0.00031 mg/L         U         U           3-Nitrotoluene         0.00031 mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00016 mg/L         U         U           4-Nitrotoluene         0.00031 mg/L         U         U           4-Nitrotoluene         0.00031 mg/L         U         U           Nitrobenzene         0.00016 mg/L         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U           RDX         0.00031 mg/L         U         U         U           RDX         0.00031 mg/L         U         U	) J		1
2-Amino-4,6-Dinitrotoluene         0.00016         mg/L         U         U           2-Nitrotoluene         0.00031         mg/L         U         U           3-Nitrotoluene         0.00031         mg/L         U         U           3-Nitrotoluene         0.00031         mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00016         mg/L         U         U           4-Nitrotoluene         0.00031         mg/L         U         U           HMX         0.00031         mg/L         U         U           Nitrobenzene         0.00016         mg/L         U         U           SW846 9056M         Nitrocellulose         0.18         mg/L         U         U           SW846 8330         Nitroglycerin         0.016         mg/L         U         U           RDX         0.00031         mg/L         U         U           SW846 6020         Aluminum         0.0105         mg/L         U	J		1
2-Nitrotoluene         0.00031 mg/L         U         U           3-Nitrotoluene         0.00031 mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00016 mg/L         U         U           4-Nitrotoluene         0.00031 mg/L         U         U         U           4-Nitrotoluene         0.00031 mg/L         U         U         U           Nitrotoluene         0.00031 mg/L         U         U         U           Nitrobenzene         0.00016 mg/L         U         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U           Nitroguanidine         0.011 mg/L         U         U         U           RDX         0.00031 mg/L         U         U         U           Flitered Inorganics         GPL         SW846 6020         Aluminum         0.0105 mg/L         U         U	J	0.00016	1
3-Nitrotoluene         0.00031 mg/L         U         U           4-Amino-2,6-Dinitrotoluene         0.00016 mg/L         U         U           4-Nitrotoluene         0.00031 mg/L         U         U         U           HMX         0.00031 mg/L         U         U         U           Nitrobenzene         0.00016 mg/L         U         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U           Nitroguanidine         0.011 mg/L         U         U         U           RDX         0.00031 mg/L         U         U         U           RDX         0.00031 mg/L         U         U         U           RDX         0.00031 mg/L         U         U         U           Flitered Inorganics         GPL         SW846 6020         Aluminum         0.0105 mg/L         U         U		0.00016	1
4-Amino-2,6-Dinitrotoluene         0.00016         mg/L         U         U           4-Nitrotoluene         0.00031         mg/L         U         U           HMX         0.00031         mg/L         U         U           Nitrobenzene         0.00016         mg/L         U         U           SW846 9056M         Nitrocellulose         0.18         mg/L         U         U           SW846 8330         Nitroglycerin         0.016         mg/L         U         U           Nitroguanidine         0.01         mg/L         U         U           RDX         0.00031         mg/L         U         U           Flitered Inorganics         GPL         SW846 6020         Aluminum         0.0105         mg/L         U         U	JJ P01	0.00031	1
4-Nitrotoluene         0.00031 mg/L         U         U           HMX         0.00031 mg/L         U         U           Nitrobenzene         0.00016 mg/L         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U           Nitroguanidine         0.01 mg/L         U         U           RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         U         U		0.00031	1
HMX         0.00031 mg/L         U         U           Nitrobenzene         0.00016 mg/L         U         U           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U           Nitroguanidine         0.01 mg/L         U         U         U           RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         SW846 6020         Aluminum         0.0105 mg/L         U         U	JJ P01	0.00016	1
Nitrobenzene         0.00016 mg/L         U         L           SW846 9056M         Nitrocellulose         0.18 mg/L         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U           Nitroguanidine         0.01 mg/L         U         U         U           RDX         0.00031 mg/L         U         U           Flitered Inorganics         GPL         SW846 6020         Aluminum         0.0105 mg/L         U         U	J	0.00031	1
SW846 9056M         Nitrocellulose         0.18 mg/L         U         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U         U           Nitroguanidine         0.01 mg/L         U         U         U           RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         SW846 6020         Aluminum         0.0105 mg/L         U         U	JJ P01	0.00031	1
SW846 9056M         Nitrocellulose         0.18 mg/L         U         U         U           SW846 8330         Nitroglycerin         0.016 mg/L         U         U         U           Nitroguanidine         0.01 mg/L         U         U         U           RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         SW846 6020         Aluminum         0.0105 mg/L         U         U	J	0.00016	1
SW846 8330         Nitroglycerin         0.016 mg/L         U         U           Nitroguanidine         0.01 mg/L         U         U           RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         U         U           SW846 6020         Aluminum         0.0105 mg/L         U         U	JJ D05,P02	0.18	1
Nitroguanidine         0.01 mg/L         U         U           RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         GPL         U         U           SW846 6020         Aluminum         0.0105 mg/L         U         U	U	0.016	1
RDX         0.00031 mg/L         U         U           Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         U         U           SW846 6020         Aluminum         0.0105 mg/L         U         U	JJ A01	0.01	1
Tetryl         0.00031 mg/L         U         U           Filtered Inorganics         GPL         0.0105 mg/L         U         U           SW846 6020         Aluminum         0.0105 mg/L         U         U	JJ P01	0.00031	1
Filtered Inorganics GPL SW846 6020 Aluminum 0.0105 mg/L U U	U	0.00031	1
SW846 6020 Aluminum 0.0105 mg/L U L			
	U	0.0105	1
Antimony 0.00033 mg/L U U	U	0.00033	1
	U	0.00055	1
<b>H</b>	J F10	0.00018	1
	U	0.000021	1
	Ū	0.00012	1
이 가장 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	=	0.0316	1
	U	0.00091	1
	=	0.000025	1
		0.000067	i
ooppor otor mare	F10,F12		
Iron 3.47 mg/L	=	0.0065	1
	U	0.00018	1
	=	0.0038	1
	=	0.000095	1
	U	0.0001	1
	=	0.0003	1
	=	0.0384	1
	U F01,F06	0.0013	2
o crossing and the second s	U	0.00014	1
	=	0.0343	1
	U	0.00015	1
	J	0.0012	
그는 그는 것을 알려야 한 것을 알려야 한 것을 하는 것을 받았는 것을 많이 많다. 가지 않는 것을 많이 없다. 가지 않는 것을 않는 것을 않는 것을 않는 것을 많이 없다. 가지 않는 것을 많이 없다. 가지 않는 것을 않는 것을 많이 없다. 가지 않는 것을 많이 없다. 가지 않는 것을 많이 없다. 가지 않는 것을 않는 것 않는 것	=	0.0006	1
Pesticides and PCBs GPL		0.0000	
	UJ P02	0.00008	1
	UJ P02	0.00008	1
	U	0.00008	i
	UJ P02	0.00008	1
	UJ P02	0.00008	1
	UJ P02	0.00008	1
		0.00008	4
		0.00008	
	U		
	U	0.00008	1
	U UJ P02	0.00008 0.00008	1
	U	0.00008	

Date Collected: 12/02	2/2003 Field Sample T					
Analysis	Chemical	Result Units	Lab Dat Qual Qu	ta Validation al Code	Detection Limit	Dilution
Pesticides and PCBs						
SW846 8081A	Endosulfan sulfate	0.00008 mg/L	U	U	0.00008	1
	Endrin	0.00008 mg/L	U	U	0.00008	1
	Endrin aldehyde	0.00008 mg/L		U	0.00008	1
	Endrin ketone	0.00008 mg/L	10000	JJ P02	0.00008	1
	gamma-Chlordane	0.00008 mg/L		JJ P02	0.00008	1
	Heptachlor	0.00008 mg/L		U	0.00008	1
	Heptachlor epoxide	0.00008 mg/L		UJ P02	0.00008	1
	Lindane	0.00008 mg/L		U	0.00008	1
	Methoxychlor	0.00008 mg/L		Ŭ	0.00008	1
SW846 8082	PCB-1016	0.00077 mg/L		Ŭ	0.00077	1
30040 0002	PCB-1221	0.00077 mg/L		ŭ	0.00077	1
		· 다 가 집 것 안 같 않 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		U		1
	PCB-1232	0.00077 mg/L	-	U	0.00077	1
	PCB-1242	0.00077 mg/L			0.00077	
	PCB-1248	0.00077 mg/L		U	0.00077	1
	PCB-1254	0.00077 mg/L		U	0.00077	1
0.0000000000	PCB-1260	0.00077 mg/L		U	0.00077	1
SW846 8081A	Toxaphene	0.0015 mg/L	U	U	0.0015	1
Semi-Volatile Organics	GPL					
SW846 8270C	1,2,4-Trichlorobenzene	0.012 mg/L	U	U	0.012	1
	1,2-Dichlorobenzene	0.012 mg/L		Ŭ	0.012	1
	1,3-Dichlorobenzene	0.012 mg/L		Ŭ	0.012	1
	1,4-Dichlorobenzene	0.012 mg/L		ŭ	0.012	1
		0.012 mg/L	Ŭ	ŭ	0.012	i
	2,4,5-Trichlorophenol	0.012 mg/L		Ŭ	0.012	1
	2,4,6-Trichlorophenol	0.012 mg/L	U	U	0.012	1
	2,4-Dichlorophenol		U	U	0.012	1
	2,4-Dimethylphenol	0.012 mg/L		U		1
	2,4-Dinitrophenol	0.024 mg/L	U		0.024	
	2,4-Dinitrotoluene	0.012 mg/L	U	U	0.012	1
	2,6-Dinitrotoluene	0.012 mg/L	U	U	0.012	1
	2-Chloronaphthalene	0.012 mg/L	U	U	0.012	1
	2-Chlorophenol	0.012 mg/L	U	U	0.012	1
	2-Methyl-4,6-dinitrophenol	0.024 mg/L	U	U	0.024	1
	2-Methylnaphthalene	0.012 mg/L	U	U	0.012	1
	2-Methylphenol	0.012 mg/L	U	U	0.012	1
	2-Nitrobenzenamine	0.012 mg/L	U	U	0.012	1
	2-Nitrophenol	0.012 mg/L	U	U	0.012	1
	3,3'-Dichlorobenzidine	0.024 mg/L	U	U	0.024	1
	3-Nitrobenzenamine	0.012 mg/L	U	U	0.012	1
	4-Bromophenyl phenyl ether	0.012 mg/L	U	U	0.012	1
	4-Chloro-3-methylphenol	0.012 mg/L	U	U	0.012	1
	4-Chlorobenzenamine	0.012 mg/L	U	U	0.012	1
	4-Chlorophenyl phenyl ether	0.012 mg/L	U	U	0.012	1
	4-Methylphenol	0.012 mg/L	U	U	0.012	1
	4-Nitrobenzenamine	0.012 mg/L	U	U	0.012	1
	4-Nitrophenol	0.024 mg/L	U	U	0.024	1
	Acenaphthene	0.012 mg/L	U	U	0.012	1
	Acenaphthylene	0.012 mg/L	U	U	0.012	1
	Anthracene	0.012 mg/L	U	U	0.012	1
	Benz(a)anthracene	0.012 mg/L	Ū	Ū	0.012	1
	Benzenemethanol	0.012 mg/L	Ŭ	Ŭ	0.012	1
	Benzo(a)pyrene	0.012 mg/L	Ŭ	Ŭ	0.012	i
	Benzo(b)fluoranthene	0.012 mg/L	Ŭ	U	0.012	1
	Benzo(ghi)perylene	0.012 mg/L	Ŭ	Ŭ	0.012	i
	Benzo(ghi)perylene Benzo(k)fluoranthene	0.012 mg/L	Ŭ	Ŭ	0.012	i
	Joinzola in a la l	0.012 IIIg/L	0	-	0.012	

Station: RQLmw-014 Sample ID: RQ0141 Date Collected: 12/02/2003

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	Result Units	Qual Qual	Validation Code	Limit	Dilution
Semi-Volatile Organics	GPL					
SW846 8270C	Bis(2-chloroethoxy)methane	0.012 mg/L	υυ		0.012	1
	Bis(2-chloroethyl) ether	0.012 mg/L	υυ		0.012	1
	Bis(2-chloroisopropyl) ether	0.012 mg/L	υυ		0.012	1
	Bis(2-ethylhexyl)phthalate	0.012 mg/L	JB U	F01,F06	0.012	1
	Butyl benzyl phthalate	0.012 mg/L	υu		0.012	1
	Carbazole	0.012 mg/L	υυ		0.012	1
	Chrysene	0.012 mg/L	υυ		0.012	1
	Di-n-butyl phthalate	0.012 mg/L	JB U	F01,F06	0.012	1
	Di-n-octylphthalate	0.012 mg/L	υυ		0.012	1
	Dibenz(a,h)anthracene	0.012 mg/L	υυ		0.012	1
	Dibenzofuran	0.012 mg/L	υυ		0.012	1
	Diethyl phthalate	0.012 mg/L	υυ		0.012	1
	Dimethyl phthalate	0.012 mg/L	υυ		0.012	1
	Fluoranthene	0.012 mg/L	υυ		0.012	1
	Fluorene	0.012 mg/L	υυ		0.012	1 .
	Hexachlorobenzene	0.012 mg/L	υυ		0.012	1
	Hexachlorobutadiene	0.012 mg/L	υυ		0.012	1
	Hexachlorocyclopentadiene	0.012 mg/L	υŬ		0.012	1
	Hexachloroethane	0.012 mg/L	υŪ		0.012	1
	Indeno(1,2,3-cd)pyrene	0.012 mg/L	Ū Ū		0.012	1
	Isophorone	0.012 mg/L	ŬŬ		0.012	1
	N-Nitroso-di-n-propylamine	0.012 mg/L	Ŭ Ŭ		0.012	1
	N-Nitrosodiphenylamine	0.012 mg/L	Ŭ Ŭ		0.012	1
	Naphthalene	0.012 mg/L	υυ		0.012	1
	Nitrobenzene	0.012 mg/L	Ŭ Ŭ		0.012	i
	Pentachlorophenol	0.024 mg/L	Ŭ Ŭ		0.024	1
	Phenanthrene	0.012 mg/L	Ŭ Ŭ		0.012	1
	Phenol	0.012 mg/L	υŭ		0.012	i
		0.012 mg/L	U U		0.012	1
Volatile Organics	Pyrene GPL	0.012 mg/L	0 0		0.012	
SW846 8260B	1,1,1-Trichloroethane	0.001 mg/L	υu	l.	0.001	1
	1,1,2,2-Tetrachloroethane	0.001 mg/L	υu		0.001	1
	1,1,2-Trichloroethane	0.001 mg/L	υυ		0.001	1
	1.1-Dichloroethane	0.001 mg/L	Ū Ū		0.001	1
	1,1-Dichloroethene	0.001 mg/L	υυ		0.001	1
	1,2-Dibromoethane	0.001 mg/L	Ŭ Ŭ		0.001	1
	1,2-Dichloroethane	0.001 mg/L	υu		0.001	1
	1,2-Dichloroethene	0.001 mg/L	U U		0.001	1
	1,2-Dichloropropane	0.001 mg/L	υŭ		0.001	i
	2-Butanone	0.005 mg/L	U U		0.005	1
	2-Butanone	0.005 mg/L	U U		0.005	1
	4-Methyl-2-pentanone	0.005 mg/L	U U		0.005	1
	Acetone	0.005 mg/L	U U		0.005	1
	Benzene	0.005 mg/L 0.001 mg/L	0 0		0.005	1
	Bromochloromethane	0.001 mg/L	U U		0.001	1
	Bromochloromethane	0.001 mg/L			0.001	1
	그는 것 같아요. 것 같은 것은 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 한 것 같아요. ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	0.001 mg/L			0.001	1
	Bromoform	0.001 mg/L	0 0		0.001	1
	Bromomethane		1 J 0 C			1
	Carbon disulfide	0.00069 mg/L			0.001	1
	Carbon tetrachloride	0.001 mg/L			0.001	1
	Chlorobenzene	0.001 mg/L			0.001	1
	Chloroethane Chloroform	0.001 mg/L 0.001 mg/L			0.001	
	L DIOFOIOTTI	0.001 ma/L	υι	,	0.001	1
				1	0.004	4
	Chloromethane cis-1,3-Dichloropropene	0.001 mg/L 0.001 mg/L	U U U U		0.001	1

Page 14

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Sample ID: RQC	Charles and the second s	edia: Groundv	vater					
Date Collected: 12/0	2/2003 Field Sample 1	ype: Grab		Lah	Data	Validation	Detection	
Analysis	Chemical	Result	Units		Qual	Code	Limit	Dilution
Volatile Organics	GPL							
SW846 8260B	Dibromochloromethane	0.001	mg/L	U	U		0.001	1
	Dimethylbenzene	0.001	mg/L	U	U		0.001	1
	Ethylbenzene	0.001	mg/L	U	U		0.001	1
	Methylene chloride	0.0014	mg/L	в	U	F01,F07	0.001	1
	Styrene	0.001	mg/L	U	U		0.001	1
	Tetrachloroethene	0.001	mg/L	U	U		0.001	1
	Toluene	0.001	mg/L	U	U		0.001	1
	trans-1,3-Dichloropropene	0.001	mg/L	U	U		0.001	1
	Trichloroethene	0.001	mg/L	U	U		0.001	1
	Vinyl chloride	0.001	mg/L	U	U		0.001	1

Station: RQLmw-015

Date Collected: 12/04				Lab Data Validation Detection					
Analysis	Chemical	Result	Units	Qual	Qual	Code	Limit	Dilution	
Cyanide	GPL								
SW846 9014T	Cyanide	0.01	mg/L	U	U		0.01	1	
Explosives	GPL			1272					
SW846 8330	1,3,5-Trinitrobenzene	0.00016	10 10 10 10 10 10 10 10 10 10 10 10 10 1	U	υ		0.00016	1	
	1,3-Dinitrobenzene	0.00016	mg/L	U	U		0.00016	1	
	2,4,6-Trinitrotoluene	0.00016		U	U		0.00016	1	
	2,4-Dinitrotoluene	0.00016	mg/L	U	UJ	P01	0.00016	1	
	2,6-Dinitrotoluene	0.00016		U	U		0.00016	1	
	2-Amino-4,6-Dinitrotoluene	0.00016	mg/L	U	U		0.00016	1	
	2-Nitrotoluene	0.00031	mg/L	U	U		0.00031	1	
	3-Nitrotoluene	0.00031	mg/L	U	UJ	P01	0.00031	1	
	4-Amino-2,6-Dinitrotoluene	0.00016	mg/L	U	UJ	P01	0.00016	1	
	4-Nitrotoluene	0.00031	mg/L	U	U		0.00031	1	
	HMX	0.00031	mg/L	U	U		0.00031	1	
	Nitrobenzene	0.00016	mg/L	U	U		0.00016	1	
SW846 9056M	Nitrocellulose	0.18	mg/L	U	UJ	D04,P02	0.18	1	
SW846 8330	Nitroglycerin	0.016	mg/L	U	U		0.016	1	
	Nitroguanidine	0.01	mg/L	U	UJ	A01	0.01	1	
	RDX	0.00031		U	υ		0.00031	1	
	Tetryl	0.00031	mg/L	U	U		0.00031	1	
Filtered Inorganics	GPL								
SW846 6020	Aluminum	0.0298	mg/L	В	U	F01,F06	0.0105	1	
	Antimony	0.00058		В	J	117GM0292	0.00033	1	
	Arsenic	0.0068			=		0.00055	1	
	Barium	0.0042	-		=		0.00018	1	
	Beryllium	0.000021	and the second sec	U	U		0.000021	1	
	Cadmium	0.00012		U	U		0.00012	1	
	Calcium		mg/L		=		0.0316	1	
	Chromium	0.00091		U	U		0.00091	1	
	Cobalt	0.0141		10 <del>0</del> 0	=		0.000025	1	
	Copper	0.0021	0.0117.011		U	F01.F07	0.000067	1	
	Iron	0.0134	-	в	Ū	F01,F06	0.0065	1	
	Lead	0.00043		В	Ū	F01,F06		1	
	Magnesium		mg/L		=		0.0038	1	
	Manganese		mg/L		=		0.000095	i	
SW846 7470A	Mercury	0.0001		U	U		0.0001	1	
SW846 6020	Nickel	0.0437	-	0	=		0.0003	1	
011040 0020	Potassium		mg/L		=		0.0384	1	
	Selenium		mg/L	В	U	F01,F06		2	
	Silver	0.00014		U	Ŭ	101,100	0.00013	1	
	Sodium		mg/L	0	=		0.00014	1	
	Thallium	0.00015	-	U	Ū		0.00015	1	
	Vanadium	0.0013		Ű	Ŭ		0.0013	1	
				U	J	102		1	
Pesticides and PCBs	Zinc GPL	0.0082	mg/L		J	102	0.0006		
		0.00000	ma/l				0.00000	-	
SW846 8081A	4,4'-DDD	0.00006		U	U		0.00006	1	
	4,4'-DDE			U	U		0.00006	1	
	4,4'-DDT	0.00006	· · · · · · · · · · · · · · · · · · ·	U	U		0.00006	1	
	Aldrin	0.00006	-	U	U		0.00006	1	
	alpha-BHC	0.00006		U	U		0.00006	1	
	alpha-Chlordane	0.00006	0	U	U	DOA	0.00006	1	
	beta-BHC	0.00006	-	U	UJ	P01	0.00006	1	
		0.00000	max /l						
	delta-BHC	0.00006		U	U		0.00006	1	
	delta-BHC Dieldrin	0.00006	mg/L	Ū	U		0.00006	1	
	delta-BHC		mg/L mg/L	57.0				1 1 1 1	

Station: RQLmw-015

Date Collected: 12/04	25 (1997) (1998) 18	5.51 					Detection	742709 - 2522
Analysis	Chemical	Result I	Units	Qual	Qual	Code	Limit	Dilution
Pesticides and PCBs								
SW846 8081A	Endrin	0.00006 1		U	U		0.00006	1
	Endrin aldehyde	0.00006		U	U		0.00006	1
	Endrin ketone	0.00006	-	U	U		0.00006	1
	gamma-Chlordane	0.00006		U	U		0.00006	1
	Heptachlor	0.00006	177. (a.	U	U		0.00006	1
	Heptachlor epoxide	0.00006		U	U		0.00006	1
	Lindane	0.00006		U	υ		0.00006	1
	Methoxychlor	0.00006		U	U		0.00006	1
SW846 8082	PCB-1016	0.00059	-	U	UJ	A01	0.00059	1
	PCB-1221	0.00059		U	UJ	A01	0.00059	1
	PCB-1232	0.00059	mg/L	U	UJ	A01	0.00059	1
	PCB-1242	0.00059	mg/L	U	UJ	A01	0.00059	1
	PCB-1248	0.00059	mg/L	U	UJ	A01	0.00059	1
	PCB-1254	0.00059	mg/L	U	UJ	A01	0.00059	1
	PCB-1260	0.00059	mg/L	U	UJ	A01	0.00059	1
SW846 8081A	Toxaphene	0.0012	mg/L	U	U		0.0012	1
Semi-Volatile Organics	GPL							
SW846 8270C	1,2,4-Trichlorobenzene	0.012	mg/L	U	U		0.012	1
1741.0.71217 V T (T 4 1 1 1 7 7 1	1,2-Dichlorobenzene	0.012		U	U		0.012	1
	1,3-Dichlorobenzene	0.012		U	U		0.012	1
	1,4-Dichlorobenzene	0.012		U	U		0.012	1
	2,4,5-Trichlorophenol	0.012	-	Ū	Ū		0.012	1
	2,4,6-Trichlorophenol	0.012	1 - C - C - C - C - C - C - C - C - C -	Ū	Ū		0.012	1
	2,4-Dichlorophenol	0.012		Ŭ	Ŭ		0.012	1
	2,4-Dimethylphenol	0.012	-	Ŭ	Ŭ		0.012	1
	2,4-Dinitrophenol	0.024		Ŭ	ŭ		0.024	i
	2,4-Dinitrotoluene	0.012	-	U	U		0.012	1
	2,6-Dinitrotoluene	0.012		Ŭ	Ŭ		0.012	1
	2-Chloronaphthalene	0.012		ŭ	Ŭ		0.012	1
				Ŭ	U			1
	2-Chlorophenol	0.012	-	U	U		0.012	1
	2-Methyl-4,6-dinitrophenol	0.024		107.0	1. 1974		0.024	100
	2-Methylnaphthalene	0.012	-	U	U		0.012	1
	2-Methylphenol	0.012		U	U		0.012	1
	2-Nitrobenzenamine	0.012	0	U	U		0.012	1
	2-Nitrophenol	0.012		U	U		0.012	1
	3,3'-Dichlorobenzidine	0.024	Contraction Contraction Contraction	U	U		0.024	1
	3-Nitrobenzenamine	0.012		U	U		0.012	1
	4-Bromophenyl phenyl ether	0.012		U	U		0.012	1
	4-Chloro-3-methylphenol	0.012	-	U			0.012	1
	4-Chlorobenzenamine	0.012	-	U			0.012	1
	4-Chlorophenyl phenyl ether	0.012	-	U	1.100		0.012	1
	4-Methylphenol	0.012	-	U	0.000		0.012	1
	4-Nitrobenzenamine	0.012		U			0.012	1
	4-Nitrophenol	0.024	-	U	_		0.024	1
	Acenaphthene	0.012		U			0.012	1
	Acenaphthylene	0.012	mg/L	U			0.012	1
	Anthracene	0.012	mg/L	U	1.1.1		0.012	1
	Benz(a)anthracene	0.012	mg/L	U			0.012	1
	Benzenemethanol	0.012	mg/L	υ	U		0.012	1
	Benzo(a)pyrene	0.012	mg/L	U	U		0.012	1
	Benzo(b)fluoranthene	0.012	mg/L	U	U		0.012	1
	Benzo(ghi)perylene	0.012		U	U		0.012	1
	Benzo(k)fluoranthene	0.012		U	U		0.012	1
	Benzoic acid	0.024		U	U		0.024	1
				-			0.012	

Station: RQLmw-015 Sample ID: RQ0142 Date Collected: 12/04/2003

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	<b>Result Units</b>	Qual Qua	Validation Code	Limit	Dilution
Semi-Volatile Organics	GPL					
SW846 8270C	Bis(2-chloroethyl) ether	0.012 mg/L	U U		0.012	1
	Bis(2-chloroisopropyl) ether	0.012 mg/L	υu		0.012	1
	Bis(2-ethylhexyl)phthalate	0.012 mg/L	B U	F01,F06	0.012	1
	Butyl benzyl phthalate	0.012 mg/L	υu		0.012	1
	Carbazole	0.012 mg/L	υu		0.012	1
	Chrysene	0.012 mg/L	υu		0.012	1
	Di-n-butyl phthalate	0.012 mg/L	Ū Ū		0.012	1
	Di-n-octylphthalate	0.012 mg/L	υŭ		0.012	1
	Dibenz(a,h)anthracene	0.012 mg/L	Ŭ Ŭ		0.012	1
	Dibenzofuran	0.012 mg/L	U U		0.012	1
		그는 것은 것은 것은 것은 것은 것을 가지 않는 것이 없다.			0.012	1
	Diethyl phthalate	0.012 mg/L				
	Dimethyl phthalate	0.012 mg/L	U U		0.012	1
	Fluoranthene	0.012 mg/L	υu		0.012	1
	Fluorene	0.012 mg/L	υι		0.012	1
	Hexachlorobenzene	0.012 mg/L	υι		0.012	1
	Hexachlorobutadiene	0.012 mg/L	υι		0.012	1
	Hexachlorocyclopentadiene	0.012 mg/L	υι		0.012	1
	Hexachloroethane	0.012 mg/L	υι	E.	0.012	1
	Indeno(1,2,3-cd)pyrene	0.012 mg/L	υι		0.012	1
	Isophorone	0.012 mg/L	υι	L.	0.012	1
	N-Nitroso-di-n-propylamine	0.012 mg/L	υι	1	0.012	1
	N-Nitrosodiphenylamine	0.012 mg/L	υι	0	0.012	1
	Naphthalene	0.012 mg/L	υü		0.012	1
	Nitrobenzene	0.012 mg/L	ŬŬ		0.012	1
	Pentachlorophenol	0.024 mg/L	U L		0.024	1
		0.012 mg/L	υί		0.024	1
	Phenanthrene		U U			
	Phenol	0.012 mg/L			0.012	1
	Pyrene	0.012 mg/L	υι	1	0.012	1
Volatile Organics SW846 8260B	GPL 1,1,1-Trichloroethane	0.001 mg/L	υι	1	0.001	1
300040 0200D		0.001 mg/L	U L		0.001	1
	1,1,2,2-Tetrachloroethane	· · · · · · · · · · · · · · · · · · ·				
	1,1,2-Trichloroethane	0.001 mg/L	UL		0.001	1
	1,1-Dichloroethane	0.001 mg/L	Ul		0.001	1
	1,1-Dichloroethene	0.001 mg/L	υι		0.001	1
	1,2-Dibromoethane	0.001 mg/L	υι		0.001	1
	1,2-Dichloroethane	0.001 mg/L	υι		0.001	1
	1,2-Dichloroethene	0.001 mg/L	υι	J	0.001	1
	1,2-Dichloropropane	0.001 mg/L	υι		0.001	1
	2-Butanone	0.005 mg/L	υı	J	0.005	1
	2-Hexanone	0.005 mg/L	υı	J	0.005	1
	4-Methyl-2-pentanone	0.005 mg/L	υι	J	0.005	1
	Acetone	0.005 mg/L	JB U		0.005	1
	Benzene	0.001 mg/L	UI		0.001	1
	Bromochloromethane	0.001 mg/L	Ŭ i		0.001	1
	Bromodichloromethane	0.001 mg/L	Ŭ		0.001	1
		0.001 mg/L	U 1		0.001	1
	Bromoform					
	Bromomethane	0.001 mg/L	-		0.001	1
	Carbon disulfide	0.0033 mg/L			0.001	1
	Carbon tetrachloride	0.001 mg/L		J	0.001	1
	Chlorobenzene	0.001 mg/L	U		0.001	1
	Chloroethane	0.001 mg/L		J	0.001	1
	Chloroform	0.001 mg/L	12.1	J	0.001	1
		0.001	UI	J	0.001	1
	Chloromethane	0.001 mg/L	0 1	-	0.001	
	chloromethane cis-1,3-Dichloropropene	0.001 mg/L		j	0.001	1

Sample ID: RQ0142 Date Collected: 12/04/2003 Field		Media: Groundwater ample Type: Grab		Lab Data Validation Detection						
Analysis	Chemical	<b>Result Units</b>	Lab D Qual C		Code	Limit	Dilution			
Volatile Organics	GPL									
SW846 8260B	Dimethylbenzene	0.001 mg/L	U	U		0.001	1			
	Ethylbenzene	0.001 mg/L	U	U		0.001	1			
	Methylene chloride	0.0033 mg/L	В	U	F01,F07	0.001	1			
	Styrene	0.001 mg/L	U	U		0.001	1			
	Tetrachloroethene	0.001 mg/L	U	U		0.001	1			
	Toluene	0.001 mg/L	U	U		0.001	1			
	trans-1,3-Dichloropropene	0.001 mg/L	U	U		0.001	1			
	Trichloroethene	0.001 mg/L	U	U		0.001	1			
	Vinyl chloride	0.001 mg/L	U	U		0.001	1			

Station: RQLmw-016 Sample ID: RQ0143 Date Collected: 12/04/2003

Media: Groundwater Field Sample Type: Grab

Date Collected: 12/04/	2003 Field Sample	Type: Grab					B.4		
Analysis	Chemical	Result	Units		Qual	Code	Detection Limit	Dilution	
Cyanide	GPL								
SW846 9014T	Cyanide	0.01	mg/L	U	U		0.01	1	
xplosives	GPL						_		
W846 8330	1,3,5-Trinitrobenzene	0.00016	mg/L	U	U		0.00016	1	
	1,3-Dinitrobenzene	0.00016	mg/L	U	U		0.00016	1	
	2,4,6-Trinitrotoluene	0.00016	mg/L	U	U		0.00016	1	
	2,4-Dinitrotoluene	0.00016	mg/L	U	UJ	P01	0.00016	1	
	2,6-Dinitrotoluene	0.00016	mg/L	U	U		0.00016	1	
	2-Amino-4,6-Dinitrotoluene	0.00016	mg/L	U	U		0.00016	1	
	2-Nitrotoluene	0.00031	mg/L	U	U		0.00031	1	
	3-Nitrotoluene	0.00031	mg/L	U	UJ	P01	0.00031	1	
	4-Amino-2,6-Dinitrotoluene	0.00016	mg/L	U	UJ	P01	0.00016	1	
	4-Nitrotoluene	0.00031	mg/L	U	U		0.00031	1	
	HMX	0.00031	mg/L	U	U		0.00031	1	
	Nitrobenzene	0.00016	A SURF CONTRACTOR OF A	U	U		0.00016	1	
W846 9056M	Nitrocellulose	0.18	mg/L	U	UJ	D04,P02	0.18	1	
W846 8330	Nitroglycerin	0.016	mg/L	U	U		0.016	1	
	Nitroguanidine		mg/L	U	UJ	A01	0.01	1	
	RDX	0.00031		U	U	1.0725040	0.00031	1	
	Tetryl	0.00031		U	U		0.00031	1	
iltered Inorganics	GPL								
SW846 6020	Aluminum	0.0413	ma/l		U	F01,F07	0.0105	1	
11040 0020	Antimony	0.00033	-	U		101,101	0.00033	i	
	Arsenic	0.0025			=		0.00055	1	
	Barium	0.0261	-		=		0.00018	1	
	Beryllium	0.000076	-	в			0.000021	1	
	Cadmium	0.00012		Ŭ			0.00012	1	
	Calcium		mg/L	U	=		0.0632	2	
	Chromium	0.00091		U			0.00091	1	
	Cobalt	0.0143		0	=		0.00005	2	
	Copper	0.00024		В		F01.F06	0.00013	2	
	Iron		mg/L	D	=	101,100	0.0065	1	
	Lead	0.00029		В		F01,F06		1	
			mg/L	D	=	101,100	0.00018	1	
	Magnesium		_		=		0.00038	2	
N/046 74704	Manganese		mg/L	U					
SW846 7470A	Mercury	0.0001	-	0	=		0.0001	1	
SW846 6020	Nickel	0.062	A				0.0006	2	
	Potassium		mg/L		=	E04 E00	0.0384	1	
	Selenium	0.002	-	В		F01,F06	0.0013	2	
	Silver	0.00014	(11) (11) (11) (11) (11) (11) (11) (11)	U	a - 172		0.00014	1	
	Sodium		mg/L		=	500	0.0343	1	
	Thallium	0.00026		В		F06	0.00015	1	
	Vanadium	0.0012	-	U		100	0.0012	1	
	Zinc	0.0097	mg/L		J	102	0.0006	1	
Pesticides and PCBs	GPL								
SW846 8081A	4,4'-DDD	0.00006	-	U			0.00006	1	
	4,4'-DDE	0.00006		U			0.00006	1	
	4,4'-DDT	0.00006		U			0.00006	1	
	Aldrin	0.00006		U			0.00006	1	
	alpha-BHC	0.00006		U			0.00006	1	
	alpha-Chlordane	0.00006		U			0.00006	1	
	beta-BHC	0.00006		U			0.00006	1	
	delta-BHC	0.00006	1100 C	U			0.00006	1	
	District	0.00006	mg/L	U	U		0.00006	1	
	Dieldrin	0.00000	-						
	Endosulfan I	0.00006		L	U U		0.00006	1	
			mg/L	և Մ	U U		0.00006	1 1	

Sample ID: RQ01	1959 and 1992 and 19	dia: Groundwate	r						
ate Collected: 12/04	Chemical	Result Uni	te		Data Qual	Validation Code	Detection Limit	Dilution	
nalysis Pesticides and PCBs		Result Off	10	quar	quar	ooue	Linn	Dilution	
W846 8081A	Endrin	0.00006 mg	1	U	U		0.00006	1	_
1000 000 IA	Endrin aldehyde	0.00006 mg		Ŭ	Ŭ		0.00006	1	
	Endrin ketone	0.00006 mg		Ŭ	ŭ		0.00006	1	
	gamma-Chlordane	0.00006 mg		Ŭ	Ŭ		0.00006	1	
	Heptachlor	0.00006 mg		ŭ	ŭ		0.00006	1	
	Heptachlor epoxide	0.00006 mg		ŭ	ŭ		0.00006	1	
	Lindane	0.00006 mg		Ŭ	Ŭ		0.00006	1	
	Methoxychlor	0.00006 mg		ŭ	ŭ		0.00006	1	
W846 8082	PCB-1016	0.0006 mg		Ŭ	UJ	A01	0.0006	i	
0002	PCB-1221	0.0006 mg		Ŭ	UJ		0.0006	1	
	PCB-1232	0.0006 mg		Ŭ	ŬĴ	A01	0.0006	1	
	PCB-1242	0.0006 mg		Ŭ	UJ		0.0006	1	
	PCB-1248	0.0006 mg		Ŭ	UJ		0.0006	1	
	PCB-1254	0.0006 mg		Ŭ	UJ		0.0006	i	
	PCB-1254 PCB-1260	0.0006 mg		U		A01	0.0006	1	
SW846 8081A	Toxaphene	0.0000 mg		U			0.0000	1	
Semi-Volatile	GPL	0.0010 mg	-	5	0		0.0010		_
Drganics	- <del> </del>								
SW846 8270C	1,2,4-Trichlorobenzene	0.012 mg		U			0.012	1	
	1,2-Dichlorobenzene	0.012 mg	/L	U	U		0.012	1	
	1,3-Dichlorobenzene	0.012 mg	/L	U	U		0.012	1	
	1,4-Dichlorobenzene	0.012 mg	/L	U	U		0.012	1	
	2,4,5-Trichlorophenol	0.012 mg	/L	U	U		0.012	1	
	2,4,6-Trichlorophenol	0.012 mg	/L	U	U		0.012	1	
	2,4-Dichlorophenol	0.012 mg	/L	U	U		0.012	1	
	2,4-Dimethylphenol	0.012 mg	/L	U	U		0.012	1	
	2,4-Dinitrophenol	0.024 mg	/L	U	U		0.024	1	
	2,4-Dinitrotoluene	0.012 mg	/L	U	U		0.012	1	
	2,6-Dinitrotoluene	0.012 mg	/L	U	U		0.012	1	
	2-Chloronaphthalene	0.012 mg	/L	U	U		0.012	1	
	2-Chlorophenol	0.012 mg	/L	U	U		0.012	1	
	2-Methyl-4,6-dinitrophenol	0.024 mg	/L	U	U		0.024	1	
	2-Methylnaphthalene	0.012 mg	/L	U	U		0.012	1	
	2-Methylphenol	0.012 mg	/L	U	U		0.012	1	
	2-Nitrobenzenamine	0.012 mg	/L	U	U		0.012	1	
	2-Nitrophenol	0.012 mg	/L	U	U		0.012	1	
	3,3'-Dichlorobenzidine	0.024 mg	/L	U	U		0.024	1	
	3-Nitrobenzenamine	0.012 mg		U	U		0.012	1	
	4-Bromophenyl phenyl ether	0.012 mg		U	U		0.012	1	
	4-Chloro-3-methylphenol	0.012 mg		U			0.012	1	
	4-Chlorobenzenamine	0.012 mg	Call-	U	U		0.012	1	
	4-Chlorophenyl phenyl ether	0.012 mg		U			0.012	1	
	4-Methylphenol	0.012 mg	3. C. S.	U			0.012	1	
	4-Nitrobenzenamine	0.012 mg		U			0.012	1	
	4-Nitrophenol	0.024 mg	12.51	U			0.024	1	
	Acenaphthene	0.012 mg		U			0.012	1	
	Acenaphthylene	0.012 mg	1111	ũ			0.012	i	
	Anthracene	0.012 mg	- 1997	ŭ			0.012	1	
	Benz(a)anthracene	0.012 mg		ũ			0.012	1	
	Benzenemethanol	0.012 mg		ŭ			0.012	i	
	Benzo(a)pyrene	0.012 mg		ŭ			0.012	1	
	Benzo(b)fluoranthene	0.012 mg		ŭ			0.012	i	
	Benzo(ghi)perylene	0.012 mg		ŭ			0.012	1	
	Benzo(k)fluoranthene	0.012 mg		L L			0.012	1	
	Benzoic acid	0.024 mg		ĩ	2 - 1974		0.024	i	
		0.024 11			, U		0.044	i	

Station: RQLmw-016 Sample ID: RQ0143 Date Collected: 12/04/2003

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	<b>Result Units</b>	Qual Qual	Validation Code	Limit	Dilution
Semi-Volatile Organics	GPL					
SW846 8270C	Bis(2-chloroethyl) ether	0.012 mg/L	υ υ		0.012	1
	Bis(2-chloroisopropyl) ether	0.012 mg/L	υυ		0.012	1
	Bis(2-ethylhexyl)phthalate	0.012 mg/L	JB U		0.012	1
	Butyl benzyl phthalate	0.012 mg/L	υυ		0.012	1
	Carbazole	0.012 mg/L	υυ		0.012	1
	Chrysene	0.012 mg/L	u u		0.012	1
	Di-n-butyl phthalate	0.012 mg/L	υυ		0.012	1
	Di-n-octylphthalate	0.012 mg/L	υu		0.012	1
	Dibenz(a,h)anthracene	0.012 mg/L	υu		0.012	1
	Dibenzofuran	0.012 mg/L	υu		0.012	1
	Diethyl phthalate	0.012 mg/L	υu		0.012	1
	Dimethyl phthalate	0.012 mg/L	υu	r)	0.012	1
	Fluoranthene	0.012 mg/L	υu		0.012	1
	Fluorene	0.012 mg/L	υu	U,	0.012	1
	Hexachlorobenzene	0.012 mg/L	υu	D)	0.012	1
	Hexachlorobutadiene	0.012 mg/L	υι		0.012	1
	Hexachlorocyclopentadiene	0.012 mg/L	UL	1	0.012	1
	Hexachloroethane	0.012 mg/L	υL	Ű.	0.012	1
	Indeno(1,2,3-cd)pyrene	0.012 mg/L	UL	l,	0.012	1
	Isophorone	0.012 mg/L	υι	l.	0.012	1
	N-Nitroso-di-n-propylamine	0.012 mg/L	υu	l.	0.012	1
	N-Nitrosodiphenylamine	0.012 mg/L	υι	1	0.012	1
	Naphthalene	0.012 mg/L	υι	)	0.012	1
	Nitrobenzene	0.012 mg/L	υu	1	0.012	1
	Pentachlorophenol	0.024 mg/L	υι	l .	0.024	1
	Phenanthrene	0.012 mg/L	υι	J	0.012	1
	Phenol	0.012 mg/L	υι	J	0.012	1
	Pyrene	0.012 mg/L	υι	J	0.012	1
Volatile Organics	GPL					
SW846 8260B	1,1,1-Trichloroethane	0.001 mg/L	υι	J	0.001	1
orro ro on ore	r, r, r rnomorooundito	0.001 mg/L				
	1,1,2,2-Tetrachloroethane	0.001 mg/L	υί		0.001	1
		Contract and a second design of the second s		J	0.001 0.001	1
	1,1,2,2-Tetrachloroethane	0.001 mg/L	υι	) )		
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	0.001 mg/L 0.001 mg/L	υι	) ) )	0.001	1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane	0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) )	0.001 0.001	1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L	υ ι υ ι υ ι	) ) )	0.001 0.001 0.001	1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dibromoethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) ) )	0.001 0.001 0.001 0.001	1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		         	0.001 0.001 0.001 0.001 0.001	1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		             	0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		             	0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropthane 2-Butanone	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005	1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005	1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005	1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L		) ) ) ) ) ) J J F01,F06	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005	1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L		) ) ) ) ) ) J F01,F06 J	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005	1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L		) ) ) ) ) ) J F01,F06 ]	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) ) ) ) ) ) (F01,F06 ) ] ]	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) ) ) ) ) ) (F01,F06 ) ] ] ] ] ] ] ] ]	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) ) ) ) ) ) (F01,F06 ) ) ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]	0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.0079 mg/L 0.001 mg/L		) ) ) ) ) F01,F06 ) ] ] ] ] ] ] ] ]	0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroptopane 2-Butanone 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.0079 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L		) ) ) ) ) ) ) ) ) ) ) ) ) )	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L		) ) ) ) ) ) ) ) ) ) ) ) ) )	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Dibloroethane 1,2-Dibloroethane 1,2-Dichloroethane 1,2-Dichloroptopane 2-Butanone 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.005 mg/L 0.001 mg/L		) ) ) ) ) F01,F06 ) ) ] ] ] ] ] ] ] ] ] ] ] ] ]	0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Sample ID: RQ0 Date Collected: 12/0		edia: Groundwater Sype: Grab	Lab	Data	Validation	Detection	
Analysis	Chemical	<b>Result Units</b>		Qual	Code	Limit	Dilution
Volatile Organics	GPL						
SW846 8260B	Dimethylbenzene	0.001 mg/L	U	U		0.001	1
	Ethylbenzene	0.001 mg/L	U	U		0.001	1
	Methylene chloride	0.0022 mg/L	В	U	F01,F07	0.001	1
	Styrene	0.001 mg/L	U	U		0.001	1
	Tetrachloroethene	0.001 mg/L	U	U		0.001	1
	Toluene	0.001 mg/L	U	U		0.001	1
	trans-1,3-Dichloropropene	0.001 mg/L	U	U		0.001	1
	Trichloroethene	0.001 mg/L	U	U		0.001	1
	Vinyl chloride	0.001 mg/L	U	U		0.001	1

Station: RQLmw-017 Sample ID: RQ0144 Date Collected: 12/01/2003

Media: Groundwater Field Sample Type: Grab

Cyanide         G           SW846 9014T         C           Explosives         G           SW846 8330         1,           1,         2,           2,         2,           2,         2,           2,         2,           2,         2,           3,         3,           4,         4           4,         4           5,         8,           SW846 9056M         N           SW846 8330         N           Filtered Inorganics         G           SW846 6020         A           A         A	Selection Select	0.016	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Qual U U U U U U U U U U U U U U U U U U U	Qual U U U U U U U U U U U U U	Code P01 P01 P01 P01 P01 D05,P02	Detection Limit 0.01 0.00016 0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031	Dilution 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SW846 9014T C Explosives G SW846 8330 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 5, 8, 8, 8, 8, 8, 8, 1, 2, 2, 2, 2, 2, 2, 2, 2, 3, 4, 4, 4, 4, 4, 5, 8, 8, 8, 8, 8, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2yanide 3PL 3.5-Trinitrobenzene 3.5-Trinitrobenzene 4.4.6-Trinitrotoluene 4.4.0-Initrotoluene 4.4.0-Initr	0.00016 0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς	P01 P01 P01 D05,P02	0.00016 0.00016 0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1 1 1 1 1 1
Explosives         G           SW846 8330         1,           2         2,           2         2,           2         2,           2         2,           3         4,           4         4           4         4           5         8330           5         8330           5         8330           8         8330           8         8330           8         8           6         8           7         7           5         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8           8         8	SPL ,3,5-Trinitrobenzene ,3-Dinitrobenzene ,4,6-Trinitrotoluene ,4,6-Trinitrotoluene ,4,6-Dinitrotoluene ,4-Dinitrotoluene ,-Amino-4,6-Dinitrotoluene ,-Nitrotoluene	0.00016 0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς ς	P01 P01 P01 D05,P02	0.00016 0.00016 0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1 1 1 1 1 1
SW846 8330 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 5, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	,3,5-Trinitrobenzene ,3-Dinitrobenzene ,3-Dinitrobenzene ,4,6-Trinitrotoluene ,4-Dinitrotoluene ,6-Dinitrotoluene ,-Amino-4,6-Dinitrotoluene -Amino-4,6-Dinitrotoluene -Nitrotoluene -Nitrotoluene -Nitrotoluene -Nitrotoluene -Nitrotoluene -MX Nitrobenzene Nitrocellulose Nitroglycerin Nitroguanidine RDX Fetryl <b>3PL</b> Numinum	0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ς η η η η η η η η η η η η η η η η η η η	P01 P01 P01 D05,P02	0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1 1 1 1
1, 2, 2, 2, 2, 2, 2, 2, 2, 3, 4, 4, 4, 4, 4, 4, 5W846 9056M N SW846 9056M N SW846 8330 N Filtered Inorganics G SW846 6020 A A A	,3-Dinitrobenzene ,4,6-Trinitrotoluene ,4-Dinitrotoluene ,6-Dinitrotoluene ,-Amino-4,6-Dinitrotoluene ,-N	0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ς η η η η η η η η η η η η η η η η η η η	P01 P01 P01 D05,P02	0.00016 0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1 1 1 1
2 2 2 2 3 4 4 4 4 4 5W846 9056M N 5W846 9056M N 5W846 8330 N 5W846 8330 N Filtered Inorganics SW846 6020 A A A	4,6-Trinitrotoluene 4,6-Dinitrotoluene 5,6-Dinitrotoluene 2,6-Dinitrotoluene 2,-Amino-4,6-Dinitrotoluene 3,-Nitrotoluene 4,-Amino-2,6-Dinitrotoluene 4,-Nitrot	0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		ο Ω ο Ω ο Ω ο Ω ο Π Ο Ω ο ο ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο	P01 P01 P01 D05,P02	0.00016 0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1 1 1
2 2 2 3 4 4 4 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2,4-Dinitrotoluene 2,6-Dinitrotoluene 2,-Amino-4,6-Dinitrotoluene 2,-Nitrotoluene 3,-Nitrotoluene 4,-Amino-2,6-Dinitrotoluene 4,-Nitrotoluene	0.00016 0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P01 P01 P01 D05,P02	0.00016 0.00016 0.00031 0.00031 0.00031 0.00016 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1 1 1
2 2 3 4 4 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Nitrotoluene 3-Nitrotoluene 3-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 4-Nitrot	0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P01 P01 P01 D05,P02	0.00016 0.00031 0.00031 0.00031 0.00016 0.00031 0.00031 0.00031 0.00016 0.18	1 1 1 1 1 1
2 2 3 4 4 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2-Amino-4.6-Dinitrotoluene 2-Nitrotoluene 3-Nitrotoluene 3-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 4-Nitrotoluene 4-MX 4-Nitrobenzene 4-Nitrobenzene 4-Nitrogluose 4-Nitrogluose 4-Nitroglycerin 5-Nitroguanidine 7-DX 6-tryl 5-PL 4-Numinum	0.00016 0.00031 0.00031 0.00031 0.00031 0.00031 0.00016 0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		0 0 0 0 0 0 0 0 0	P01 P01 D05,P02	0.00016 0.00031 0.00031 0.00016 0.00031 0.00031 0.00016 0.18	1 1 1 1 1
2 3- 4- 4 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2-Nitrotoluene 3-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 4-Nitrotoluene 4MX 4-Nitrobenzene 4-Nitrobenzene 8-Nitrogluose 8-Nitroglycerin 8-Nitroguanidine 8-DX Fetryl 5 <b>PL</b> 4-Numinum	0.00031 0.00031 0.00016 0.00031 0.00031 0.00016 0.18 0.016 0.011 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0 0 0 0 0 0 0 0 0 0	ο Γ Γ Γ Γ Γ Γ Γ Γ	P01 P01 D05,P02	0.00031 0.00031 0.00016 0.00031 0.00031 0.00016 0.18	1 1 1 1 1
3- 44 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	B-Nitrotoluene B-Amino-2,6-Dinitrotoluene HMX Hitrobenzene Nitrocellulose Nitroglycerin Nitroguanidine RDX Fetryl <b>SPL</b> Numinum	0.00031 0.00016 0.00031 0.00031 0.00016 0.18 0.016 0.011 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		0 0 0 0 0 0 0 0 0	P01 P01 D05,P02	0.00031 0.00016 0.00031 0.00031 0.00016 0.18	1 1 1 1 1
4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 8 9	I-Amino-2,6-Dinitrotoluene I-Nitrotoluene IMX Vitrobenzene Vitrocellulose Vitroglycerin Vitroguanidine RDX Fetryl <b>3PL</b> Viuminum	0.00016 0.00031 0.00031 0.00016 0.18 0.016 0.011 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	ບ ບ ບ ບ ບ ບ ບ ບ	0 0 0 0 0 0 0 0 0	P01 P01 D05,P02	0.00016 0.00031 0.00031 0.00016 0.18	1 1 1 1
4 H SW846 9056M N SW846 8330 N SW846 8330 N Filtered Inorganics G SW846 6020 A A A	I-Nitrotoluene IMX Nitrobenzene Nitrocellulose Nitroglycerin Nitroguanidine RDX Fetryl <b>GPL</b> Numinum	0.00031 0.00031 0.00016 0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	ບ ບ ບ ບ ບ ບ	0 0 0 0 0 0	P01 D05,P02	0.00031 0.00031 0.00016 0.18	1 1 1
H N SW846 9056M N SW846 8330 N R T Filtered Inorganics G SW846 6020 A A A	HMX Nitrobenzene Nitrogellulose Nitroglycerin Nitroguanidine RDX Fetryl GPL Numinum	0.00031 0.00016 0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L mg/L mg/L	ບ ບ ບ ບ ບ	U U U U U U U	D05,P02	0.00031 0.00016 0.18	1 1 1
N SW846 9056M N SW846 8330 N R Filtered Inorganics G SW846 6020 A A A	Nitrobenzene Nitrocellulose Nitroglycerin Nitroguanidine RDX Fetryl GPL Numinum	0.00016 0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L mg/L	ບ ບ ບ	U UJ U	D05,P02	0.00016 0.18	1 1
SW846 9056M N SW846 8330 N R Filtered Inorganics G SW846 6020 A A A	Nitrocellulose Nitroglycerin Nitroguanidine RDX Fetryl <b>GPL</b> Numinum	0.18 0.016 0.01 0.00031	mg/L mg/L mg/L mg/L	U U U	U U		0.18	1
SW846 8330 N N Filtered Inorganics G SW846 6020 A A A	Nitroglycerin Nitroguanidine RDX Fetryl <b>GPL</b> Numinum	0.016 0.01 0.00031	mg/L mg/L mg/L	U U	U			
N R T Filtered Inorganics G SW846 6020 A A A	Nitroguanidine RDX Fetryl GPL Numinum	0.01 0.00031	mg/L mg/L	U			0.016	1
R T Filtered Inorganics G SW846 6020 A A A	RDX Fetryl GPL Numinum	0.00031	mg/L					
T Filtered Inorganics G SW846 6020 A A A	Fetryl GPL Numinum		the second s		UJ	A01	0.01	1
Filtered Inorganics G SW846 6020 A A A	GPL Numinum	0.00031	mg/L	U	UJ	P01	0.00031	1
SW846 6020 A A A	Aluminum			U	U		0.00031	1
SW846 6020 A A A								
A	Antimony	0.0788	mg/L		=		0.0105	1
		0.00033	mg/L	U	U		0.00033	1
P	Arsenic	0.00095	mg/L	в	J		0.00055	1
	Barium	0.0167	mg/L		J	F10	0.00018	1
E	Beryllium	0.00015	mg/L		=		0.000021	1
C	Cadmium	0.00012	mg/L	U	U		0.00012	1
c	Calcium	81.3	mg/L		=		0.0316	1
C	Chromium	0.00091	mg/L	U	U		0.00091	1
C	Cobalt		mg/L		=		0.000025	1
c	Copper	0.0022	mg/L		J	F10	0.000067	1
	ron	0.0065	mg/L	U	U		0.0065	1
L	_ead	0.00018	1.	U			0.00018	1
N	Magnesium	26.3	mg/L		=		0.0038	1
	Manganese		mg/L		=		0.000095	1
meneranan NS	Mercury	0.0001	12 C. 12 C. 12 C. 12 C.	U	U		0.0001	1
	Nickel		mg/L		=		0.0003	1
54000 a.B. 500 mm a	Potassium		mg/L		=		0.0384	1
	Selenium	0.0022		в	U	F01.F06	0.0013	2
	Silver	0.00014		Ū			0.00014	1
	Sodium		mg/L		=		0.0343	1
	Thallium	0.00015		U			0.00015	1
	Vanadium	0.0012		U			0.0012	1
	Zinc	0.312			=		0.0006	1
the second s	GPL							1
	4,4'-DDD	0.00006	mg/L	U	UJ	P02	0.00006	1
	4,4'-DDE	0.00006		Ũ			0.00006	1
	4.4'-DDT	0.00006	-	Ŭ			0.00006	i
	Aldrin	0.00006		Ŭ		P02	0.00006	1
	alpha-BHC	0.00006		Ŭ			0.00006	1
	alpha-Chlordane	0.00006		Ŭ			0.00006	1
	beta-BHC	0.00006		ŭ			0.00006	1
	delta-BHC	0.00006		ŭ			0.00006	1
	Dieldrin	0.00006		Ŭ		P02	0.00006	1
	Endosulfan I	0.00006	-	Ŭ			0.00006	1
	Endosulfan II	0.00006		ŭ			0.00006	i
	Endosulfan sulfate	0.00006		ŭ			0.00006	i

Date Collected: 12/01/		570 - 570 - 584500 - 284			n Detection	Dilation
Analysis	Chemical	Result Units	Qual Qual	Code	Limit	Dilution
Pesticides and PCBs	GPL					
SW846 8081A	Endrin	0.00006 mg/L	0 0		0.00006	1
	Endrin aldehyde	0.00006 mg/L	υu	-	0.00006	1
	Endrin ketone	0.00006 mg/L	U UJ		0.00006	1
	gamma-Chlordane	0.00006 mg/L	U UJ	P02	0.00006	1
	Heptachlor	0.00006 mg/L	υυ	200	0.00006	1
	Heptachlor epoxide	0.00006 mg/L	U UJ	P02	0.00006	1
	Lindane	0.00006 mg/L	υυ		0.00006	1
	Methoxychlor	0.00006 mg/L	U U		0.00006	1
SW846 8082	PCB-1016	0.00059 mg/L	U U U U		0.00059	1
	PCB-1221	0.00059 mg/L			0.00059	
	PCB-1232	0.00059 mg/L	0 0		0.00059	1
	PCB-1242	0.00059 mg/L	U U		0.00059	1
	PCB-1248	0.00059 mg/L	U U		0.00059	1
	PCB-1254	0.00059 mg/L	U U		0.00059	1
	PCB-1260	0.00059 mg/L	U U		0.00059	1
SW846 8081A	Toxaphene	0.0012 mg/L	UU		0.0012	1
Semi-Volatile Organics	GPL					
SW846 8270C	1.2.4-Trichlorobenzene	0.011 mg/L	υυ		0.011	1
	1.2-Dichlorobenzene	0.011 mg/L	υυ		0.011	1
	1,3-Dichlorobenzene	0.011 mg/L	υυ		0.011	1
	1,4-Dichlorobenzene	0.011 mg/L	υυ		0.011	1
	2,4,5-Trichlorophenol	0.011 mg/L	υυ		0.011	1
	2,4,6-Trichlorophenol	0.011 mg/L	υu		0.011	1
	2,4-Dichlorophenol	0.011 mg/L	υυ		0.011	1
	2,4-Dimethylphenol	0.011 mg/L	υu		0.011	1
	2,4-Dinitrophenol	0.023 mg/L	υu		0.023	1
	2,4-Dinitrotoluene	0.011 mg/L	υυ		0.011	1
	2,6-Dinitrotoluene	0.011 mg/L	υυ		0.011	1
	2-Chloronaphthalene	0.011 mg/L	υυ		0.011	1
	2-Chlorophenol	0.011 mg/L	υυ		0.011	1
	2-Methyl-4,6-dinitrophenol	0.023 mg/L	υυ		0.023	1
	2-Methylnaphthalene	0.011 mg/L	υu		0.011	1
	2-Methylphenol	0.011 mg/L	υυ		0.011	1
	2-Nitrobenzenamine	0.011 mg/L	υυ		0.011	1
	2-Nitrophenol	0.011 mg/L	υu		0.011	1
	3,3'-Dichlorobenzidine	0.023 mg/L	υυ		0.023	1
	3-Nitrobenzenamine	0.011 mg/L	υu		0.011	1
	4-Bromophenyl phenyl ether	0.011 mg/L	υu		0.011	1
	4-Chloro-3-methylphenol	0.011 mg/L	υυ		0.011	1
	4-Chlorobenzenamine	0.011 mg/L	υu		0.011	1
	4-Chlorophenyl phenyl ether	0.011 mg/L	υυ		0.011	1
	4-Methylphenol	0.011 mg/L	υυ		0.011	1
	4-Nitrobenzenamine	0.011 mg/L	υu		0.011	1
	4-Nitrophenol	0.023 mg/L	υυ		0.023	1
	Acenaphthene	0.011 mg/L	υυ		0.011	1
	Acenaphthylene	0.011 mg/L	υu		0.011	1
	Anthracene	0.011 mg/L	υu	1	0.011	1
	Benz(a)anthracene	0.011 mg/L	υι		0.011	1
	Benzenemethanol	0.011 mg/L	υu	1	0.011	1
	Benzo(a)pyrene	0.011 mg/L	υu	1	0.011	1
	Benzo(b)fluoranthene	0.011 mg/L	υu	1	0.011	1
	Benzo(ghi)perylene	0.011 mg/L	υι	l l	0.011	1
	Benzo(k)fluoranthene	0.011 mg/L	υι	J	0.011	1
	Benzoic acid	0.023 mg/L	υι	J	0.023	1
	Bis(2-chloroethoxy)methane	0.011 mg/L	UL	F	0.011	1

Station: RQLmw-017 Sample ID: RQ0144 Date Collected: 12/01/2003

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	<b>Result Units</b>	Qual Qual	Validation Code	Limit	Dilution
Semi-Volatile Organics	GPL					
SW846 8270C	Bis(2-chloroethyl) ether	0.011 mg/L	U U		0.011	1
	Bis(2-chloroisopropyl) ether	0.011 mg/L	υυ		0.011	1
	Bis(2-ethylhexyl)phthalate	0.011 mg/L	JB U	F01,F06	0.011	1
	Butyl benzyl phthalate	0.011 mg/L	υυ		0.011	1
	Carbazole	0.011 mg/L	υυ		0.011	1
	Chrysene	0.011 mg/L	υυ		0.011	1
	Di-n-butyl phthalate	0.011 mg/L	JB U	F01,F06	0.011	1
	Di-n-octylphthalate	0.011 mg/L	υυ		0.011	1
	Dibenz(a,h)anthracene	0.011 mg/L	υυ		0.011	1
	Dibenzofuran	0.011 mg/L	υυ		0.011	1
	Diethyl phthalate	0.011 mg/L	υυ		0.011	1
	Dimethyl phthalate	0.011 mg/L	υυ		0.011	1
	Fluoranthene	0.011 mg/L	υυ		0.011	1
	Fluorene	0.011 mg/L	υυ		0.011	1
	Hexachlorobenzene	0.011 mg/L	υυ		0.011	1
	Hexachlorobutadiene	0.011 mg/L	υυ		0.011	1
	Hexachlorocyclopentadiene	0.011 mg/L	υυ		0.011	1
	Hexachloroethane	0.011 mg/L	Ŭ Ŭ		0.011	1
	Indeno(1,2,3-cd)pyrene	0.011 mg/L	υŪ		0.011	1
	Isophorone	0.011 mg/L	ŬŬ		0.011	1
	N-Nitroso-di-n-propylamine	0.011 mg/L	υŭ		0.011	1
	N-Nitrosodiphenylamine	0.011 mg/L	υυ		0.011	1
	Naphthalene	0.011 mg/L	υυ		0.011	1
		0.011 mg/L	υυ		0.011	i
	Nitrobenzene	- T.	U U		0.023	1
	Pentachlorophenol	0.023 mg/L	U U		0.023	1
	Phenanthrene	0.011 mg/L 0.011 mg/L	0 0		0.011	1
	Phenol	0.011 mg/L	U U		0.011	1
Volatile Organics	Pyrene GPL	0.011 mg/L	0 0		0.011	
SW846 8260B	1,1,1-Trichloroethane	0.001 mg/L	υu	J	0.001	1
	1,1,2,2-Tetrachloroethane	0.001 mg/L	υu	j –	0.001	1
	1,1,2-Trichloroethane	0.001 mg/L	υυ	j –	0.001	1
	1.1-Dichloroethane	0.001 mg/L	U U		0.001	1
	1,1-Dichloroethene	0.001 mg/L	Ū Ū		0.001	1
	1,2-Dibromoethane	0.001 mg/L	ŬŬ		0.001	1
	1,2-Dichloroethane	0.001 mg/L	Ŭ Ŭ		0.001	i
	1,2-Dichloroethene	0.001 mg/L	Ŭ Ŭ		0.001	1
	1,2-Dichloropropane	0.001 mg/L	U U		0.001	1
	2-Butanone	0.005 mg/L	U U		0.005	1
	2-Butanone	0.005 mg/L	U U		0.005	1
			U U			1
	4-Methyl-2-pentanone	0.005 mg/L 0.0062 mg/L	вц		0.005	1
	Acetone	0.0062 mg/L 0.001 mg/L			0.005	1
	Benzene				0.001	1
	Bromochloromethane	0.001 mg/L				1
	Bromodichloromethane	0.001 mg/L			0.001	1
	Bromoform	0.001 mg/L			0.001	
	Bromomethane	0.001 mg/L	U U		0.001	1
	Carbon disulfide	0.00095 mg/L	L L		0.001	1
	Carbon tetrachloride	0.001 mg/L	υι		0.001	1
	Chlorobenzene	0.001 mg/L	υι		0.001	1
	Chloroethane	0.001 mg/L	υι		0.001	1
	Chloroform	0.001 mg/L	UL		0.001	1
	Chloromethane	0.001 mg/L	υι	J	0.001	1
	cis-1,3-Dichloropropene Dibromochloromethane	0.001 mg/L 0.001 mg/L	U U U U		0.001 0.001	1 1

Sample ID: RQ0 Date Collected: 12/0		edia: Groundwater Type: Grab		D. 4. 1	1.1.1.1.1	Detection	
Analysis	Chemical	<b>Result Units</b>	Lab Qual		Validation Code	Limit	Dilution
Volatile Organics	GPL						
SW846 8260B	Dimethylbenzene	0.001 mg/L	U	U		0.001	1
	Ethylbenzene	0.001 mg/L	U	U		0.001	1
	Methylene chloride	0.0013 mg/L	В	U	F01,F07	0.001	1
	Styrene	0.001 mg/L	U	U		0.001	1
	Tetrachloroethene	0.001 mg/L	U	U		0.001	1
	Toluene	0.001 mg/L	U	U		0.001	1
	trans-1,3-Dichloropropene	0.001 mg/L	U	υ		0.001	1
	Trichloroethene	0.001 mg/L	U	U		0.001	1
	Vinyl chloride	0.001 mg/L	U	U		0.001	1

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Second Sampling Event

May 2004

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Station: RQLmw-012 Sample ID: RQ0151 Date Collected: 05/20/2004

Media: Groundwater Field Sample Type: Grab

Cyanide SW846 9014	Chemical	Resul	t Units	Qual		Code	Detection Limit	Dilution	
	GPL							2	
011040 9014	Cyanide	0.005	MG/L	U	U		0.005	1	
Explosives	GPL	0.000	more	0	0		0.005	1	
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	U		0.16	1	
	1,3-Dinitrobenzene		UG/L	Ŭ	UJ	C08	0.16	1	
	2,4,6-Trinitrotoluene		UG/L	Ŭ	UJ	P02	0.16	1	
	2,4-Dinitrotoluene		UG/L	Ŭ	U	102	0.16	1	
	2,6-Dinitrotoluene		UG/L	Ū	Ũ		0.16	1	
	2-Amino-4,6-Dinitrotoluene		UG/L	Ŭ	ŭ		0.16	1	
	2-Nitrotoluene		UG/L	Ŭ	Ŭ		0.31	1	
	3-Nitrotoluene		UG/L	Ū	Ŭ		0.31	1	
	4-Amino-2,6-Dinitrotoluene		UG/L	Ŭ	Ŭ		0.16	i	
	4-Nitrotoluene		UG/L	Ŭ	Ũ		0.31	1	
	HMX		UG/L	ũ	Ŭ		0.31	1	
	Nitrobenzene		UG/L	Ŭ	ŭ		0.16	i	
SW846 9056	Nitrocellulose		MG/L	Ŭ	UJ	A03,H03	0.179	1	
SW846 8330	Nitroglycerin		UG/L	Ŭ	U	/100,/100	16	1	
	Nitroguanidine	0.00	UG/L	Ŭ	Ű	A01	10	-	
	RDX		UG/L	Ŭ	UJ	P01	0.31	1	
	Tetryl		UG/L	Ŭ	U	101	0.31	i	
Iltered Inorganics	GPL						0.01		
SW846 6010B	Aluminum	656	UG/L		=		5.6	1	
	Antimony		UG/L	U	U	F10	5.0	1	
	Arsenic		UG/L	Ŭ	ŭ	110	0.35	1	
	Barium		UG/L	0	=		0.099	1	
	Beryllium		UG/L	В	J		0.025	1	
	Cadmium		UG/L	В	Ĵ		0.18	1	
	Calcium	28600		2	=		33.9	1	
	Chromium		UG/L	в	J		1.1	1	
	Cobalt		UG/L	D	=		0.015	1	
	Copper		UG/L		Ū	F03,F07			
	Iron		UG/L	В	υ	F01,F06	0.045	1	
	Lead		UG/L	D	=	FU1,FU0	8.8 0.2	1	
	Magnesium		UG/L		=		6.5	1	
	Manganese		UG/L		-				
SW846 7470A	Mercury		UG/L	U	U		0.44	1	
SW846 6010B	Nickel		UG/L	0	=		0.1	1	
	Potassium		UG/L		-		0.28		
	Selenium		UG/L	Ξũ.			20.6	1	
	Silver		UG/L	UU	UU		0.41		
	Sodium		UG/L	0	=		0.38	1	
	Thallium		UG/L		Ū	E01 E07	56	1	
	Vanadium		UG/L	U	U	F01,F07	0.059		
	Zinc		UG/L	E	J	E07	1.6 0.2	1	
	GPL	00.0	JUIL	L	5	207	0.2	1	
Pesticides and PCBs	4.4'-DDD	0.06	UG/L	U	111	A01	0.00	4	_
and the second se			UG/L	U		A01 A01	0.06	1	
and the second se	4,4'-DDE	0.06	JUIL	0		A01	0.06	1	
and the second se	4,4'-DDE 4,4'-DDT			11					
and the second se	4,4'-DDT	0.06	UG/L	U			0.06	1	
and the second se	4,4'-DDT Aldrin	0.06 0.06	UG/L UG/L	U	UJ	A01	0.06	1	
and the second se	4,4'-DDT Aldrin alpha-BHC	0.06 0.06 0.06	UG/L UG/L UG/L	U U	UJ UJ	A01 A01	0.06 0.06	1 1	
and the second se	4,4'-DDT Aldrin alpha-BHC alpha-Chlordane	0.06 0.06 0.06 0.06	UG/L UG/L UG/L UG/L	U U U	UJ UJ	A01 A01 A01	0.06 0.06 0.06	1 1 1	
and the second se	4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC	0.06 0.06 0.06 0.06 0.06	UG/L UG/L UG/L UG/L UG/L	U U U U	01 01 01	A01 A01 A01 A01,P01	0.06 0.06 0.06 0.06	1 1 1	
and the second se	4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC	0.06 0.06 0.06 0.06 0.06 0.06	UG/L UG/L UG/L UG/L UG/L UG/L	U U U U U U U	01 01 01 01 01	A01 A01 A01 A01,P01 A01,P02	0.06 0.06 0.06 0.06 0.06	1 1 1 1	
and the second se	4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin	0.06 0.06 0.06 0.06 0.06 0.06 0.06	UG/L UG/L UG/L UG/L UG/L UG/L	U U U U U U	01 01 01 01 01 01	A01 A01 A01,P01 A01,P02 A01	0.06 0.06 0.06 0.06 0.06 0.06	1 1 1 1 1	
Pesticides and PCBs SW846 8081A	4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	UG/L UG/L UG/L UG/L UG/L UG/L	U U U U U U U	01 01 01 01 01 01 01	A01 A01 A01 A01,P01 A01,P02	0.06 0.06 0.06 0.06 0.06	1 1 1 1	

Station: RQLmw-012

Analysis	Chemical	Result Units				Detection	Dilution
		Result Units	Qual	Qual	Code	Limit	Dilution
Pesticides and PCBs	GPL	0.00 1104			101		
SW846 8081A	Endrin	0.06 UG/L	·		A01	0.06	1
	Endrin aldehyde	0.06 UG/L	2 ( <del>7</del> )	1000	2 2 2 3 1 3 4 1 1 C 2 1 1	0.06	1
	Endrin ketone	0.06 UG/L				0.06	1
	gamma-Chlordane	0.06 UG/L			A01	0.06	1
	Heptachlor	0.06 UG/L			A01	0.06	1
	Heptachlor epoxide	0.06 UG/L			A01	0.06	1
	Lindane	0.06 UG/L			A01	0.06	1
	Methoxychlor	0.06 UG/L	U	UJ	A01	0.06	1
SW846 8082	PCB-1016	1.2 UG/L	U		A01	1.2	1
	PCB-1221	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1232	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1242	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1248	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1254	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1260	1.2 UG/L	U	UJ	A01	1.2	1
SW846 8081A	Toxaphene	1.2 UG/L	U	UJ	A01	1.2	1
Semi-Volatile Organics	GPL						
SW846 8270C	1,2,4-Trichlorobenzene	12 UG/L	U	U		12	1
	1,2-Dichlorobenzene	12 UG/L				12	1
	1.3-Dichlorobenzene	12 UG/L				12	1
	1,4-Dichlorobenzene	12 UG/L		1972		12	1
	2,4,5-Trichlorophenol	12 UG/L				12	1
	2,4,6-Trichlorophenol	12 UG/L		-		12	1
	2,4-Dichlorophenol	12 UG/L				12	1
	2,4-Dimethylphenol	12 UG/L				12	1
	2,4-Dinitrophenol	24 UG/L		1000		24	1
	2,4-Dinitrotoluene	12 UG/L		2200			1
	2,6-Dinitrotoluene	12 UG/L				12	1
						12	1
	2-Chloronaphthalene	12 UG/L	2 ST	1.755		12	1
	2-Chlorophenol	12 UG/L				12	1
	2-Methyl-4,6-dinitrophenol	24 UG/L	·	12.11		24	1
	2-Methylnaphthalene	12 UG/L				12	1
	2-Methylphenol	12 UG/L	·			12	1
	2-Nitrobenzenamine	12 UG/L	Q 233	1.17		12	1
	2-Nitrophenol	12 UG/L				12	1
	3,3'-Dichlorobenzidine	24 UG/L				24	1
	3-Nitrobenzenamine	12 UG/L				12	1
	4-Bromophenyl phenyl ether	12 UG/L		1973		12	1
	4-Chloro-3-methylphenol	12 UG/L				12	1
	4-Chlorobenzenamine	12 UG/L				12	1
	4-Chlorophenyl phenyl ether	12 UG/L		0.000		12	1
	4-Methylphenol	12 UG/L				12	1
	4-Nitrobenzenamine	12 UG/L				12	1
	4-Nitrophenol	24 UG/L	U	1.1		24	1
	Acenaphthene	12 UG/L	U	U		12	1
	Acenaphthylene	12 UG/L	U	U		12	1
	Anthracene	12 UG/L	U			12	1
	Benz(a)anthracene	12 UG/L	U	U		12	1
	Benzenemethanol	12 UG/L				12	1
	Benzo(a)pyrene	12 UG/L				12	-i
	Benzo(b)fluoranthene	12 UG/L				12	1
	Benzo(ghi)perylene	12 UG/L				12	1
	Benzo(k)fluoranthene	12 UG/L				12	1
	Benzoic acid	24 UG/L				24	i

Station: RQLmw-012 Sample ID: RQ0151 Date Collected: 05/20/2004

Media: Groundwater Field Sample Type: Grab

Chemical GPL Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether Bis(2-ethylhexyl)phthalate	Result Unit 12 UG/ 12 UG/	ts Qual	Qual U	Validation Code	Detection Limit 12	Dilution 1	
Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether Bis(2-ethylhexyl)phthalate	12 UG/				12	1	
Bis(2-chloroisopropyl) ether Bis(2-ethylhexyl)phthalate	12 UG/				12	1	
Bis(2-ethylhexyl)phthalate		1 11			1.		
	전 관람이 망가져 봐.	L U	U		12	1	
	22 UG/	L.	=		12	1	
Butyl benzyl phthalate	12 UG/	/L U	U		12	1	
Carbazole	12 UG/		Ŭ		12	1	
Chrysene	12 UG/		Ū		12	1	
Di-n-butyl phthalate		200 E					
		2411				1	
			-				
		T				1	
		811					
						1	
						1	
이 같은 것 않는 것 같은 것은 것이 가져요? 것 것 같아요?		274 STD	101710			1	
						-	
		1974 (1976)				10	
						1	
					12	1	
					12	1	
					12	1	
					12	1	
	12 UG/	L U	U		12	1	
Pentachlorophenol	24 UG/	′L U	U		24	1	
	12 UG/	″L U	U		12	1	
	12 UG/	″L U	U		12	1	
Pyrene	12 UG/	L U	U		12	1	
GPL							
					1	1	
					1	1	
					1	1	
					1	1	
	1 UG/	"L U	U		1	1	
	1 UG/	L U	U		1	1	
1,2-Dichloroethane	1 UG/	L U	U		1	1	
1,2-Dichloroethene	1 UG/	ւ Ս	U		1	1	
1,2-Dichloropropane	1 UG/	L U	U		1	1	
2-Butanone	5 UG/	Ն Ս	U		5	1	
2-Hexanone	5 UG/	L U	U		5	1	
4-Methyl-2-pentanone	5 UG/	L U	U		5	1	
Acetone	5 UG/	L U	UJ	C05		1	
Benzene	1 UG/	L U			1	1	
Bromochloromethane					1	1	
Bromodichloromethane		17 <sup>10</sup>			1	1	
Bromoform					1	1	
					1	1	
Carbon disulfide	3.2 UG/		U	F03,F07			
	1 UG/		U	100,107		1	
	1 00/	- 0			1	1	
Carbon tetrachloride Chlorobenzene		1	11				
Chlorobenzene	1 UG/		U		1	1	
Chlorobenzene Chloroethane	1 UG/ 1 UG/	L U	U		1	1	
Chlorobenzene Chloroethane Chloroform	1 UG/ 1 UG/ 1 UG/	L U L U	U U		1	1 1 1	
Chlorobenzene Chloroethane	1 UG/ 1 UG/	L U L U L U	U		1 1 1	1 1 1 1	
	Di-n-octylphthalate Dibenzofuran Diethyl phthalate Dimethyl phthalate Dimethyl phthalate Fluoranthene Fluoranthene Fluorane Hexachlorobenzene Hexachlorobutadiane Hexachlorocyclopentadiane Hexachlorocyclopentadiane Hexachlorocyclopentadiane Hexachlorocythane Indeno(1,2,3-cd)pyrane Isophorone N-Nitroso-di-n-propylamine N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine Naphthalane Nitrobenzene Pentachlorophenol Phenanthrene Phenol Pyrene <b>GPL</b> 1,1,1-Trichloroethane 1,1-2-Trichloroethane 1,1-2-Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropthane 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Benzene Bromochloromethane Bromochloromethane	Di-n-octylphthalate         12 UG/           Dibenzofuran         12 UG/           Dibenzofuran         12 UG/           Diethyl phthalate         12 UG/           Dimethyl phthalate         12 UG/           Dimethyl phthalate         12 UG/           Fluoranthene         12 UG/           Fluorene         12 UG/           Hexachlorobenzene         12 UG/           Hexachlorobutadiene         12 UG/           Hexachlorocyclopentadiene         12 UG/           Hexachlorocyclopentadiene         12 UG/           Hexachlorocyclopentadiene         12 UG/           Hexachlorocyclopentadiene         12 UG/           Nexachlorochlane         12 UG/           Indeno(1,2,3-cd)pyrene         12 UG/           Isophorone         12 UG/           N-Nitrosodiphenylamine         12 UG/           Naphthalene         12 UG/           Pentachlorophenol         24 UG/           Phenol         12 UG/           Pyrene         12 UG/           Pyrene         12 UG/           1,1-Trichloroethane         1 UG/           1,1,2-Trichloroethane         1 UG/           1,2-Dichloroethane         1 UG/           1,2-Dichloroet	Di-n-octylphthalate         12         UG/L         U           Dibenz(a,h)anthracene         12         UG/L         U           Dibenzofuran         12         UG/L         U           Dibenzofuran         12         UG/L         U           Dimethyl phthalate         12         UG/L         U           Dimethyl phthalate         12         UG/L         U           Fluoranthene         12         UG/L         U           Hexachlorobutadiene         12         UG/L         U           Hexachlorobutadiene         12         UG/L         U           Hexachloroothane         12         UG/L         U           Indeno(1,2,3-cd)pyrene         12         UG/L         U           Isophorone         12         UG/L         U           N-Nitroso-di-n-propylamine         12         UG/L         U           N-Nitrosodiphenylamine         12         UG/L         U           Naphthalene         12         UG/L         U           Phenol         12         UG/L         U           Phenol         12         UG/L         U           1,1,2-Trichloroethane         1         UG/L         U	Di-n-octylphthalate         12         UG/L         U         U           Dibenz(a,h)anthracene         12         UG/L         U         U           Dibenz(a,h)anthracene         12         UG/L         U         U           Dibenzofuran         12         UG/L         U         U           Dimethyl phthalate         12         UG/L         U         U           Fluoranthene         12         UG/L         U         U           Fluorene         12         UG/L         U         U           Hexachlorobutadiene         12         UG/L         U         U           Hexachlorocyclopentadiene         12         UG/L         U         U           Ideon(1,2,3-cd)pyrene         12         UG/L         U         U           N-Nitroso-di-n-propylamine         12         UG/L         U         U           N-Nitroso-di-n-propylamine         12         UG/L         U         U           N-Nitroso-di-n-propylamine         12         UG/L         U         U           N-Nitrobenzene         12         UG/L         U         U           Phenol         12         UG/L         U         U	Di-n-octylphthalate         12         UG/L         U         U           Dibenza, h)anthracene         12         UG/L         U         U           Dibenzafuran         12         UG/L         U         U           Dibenzofuran         12         UG/L         U         U           Dimethyl phthalate         12         UG/L         U         U           Fluoranthene         12         UG/L         U         U           Fluorene         12         UG/L         U         U           Hexachlorobenzene         12         UG/L         U         U           Hexachlorocyclopentadiene         12         UG/L         U         U           Hexachlorocyclopentadiene         12         UG/L         U         U           Indeno(1,2,3-cd)pyrene         12         UG/L         U         U           Isophorone         12         UG/L         U         U         N           Nitrobociphenylamine         12         UG/L         U         U         N           Nitrobenzene         12         UG/L         U         U         P           Pyrene         12         UG/L         U         U	Di-n-octylphthalate         12         UG/L         U         12           Dibenz(a,h)anthracene         12         UG/L         U         U         12           Dibenz(a,h)anthracene         12         UG/L         U         U         12           Dibenz(a,h)anthracene         12         UG/L         U         U         12           Dibentyl phthalate         12         UG/L         U         U         12           Fluoranthene         12         UG/L         U         U         12           Fluoranthene         12         UG/L         U         U         12           Hexachlorobutatiene         12         UG/L         U         U         12           Hexachlorocyclopentadiene         12         UG/L         U         U         12           Indeno(1,2,3-cd)pyrene         12         UG/L         U         U         12           Isophorone         12         UG/L         U         U         12           N-Nitroso-din-propylamine         12         UG/L         U         U         12           N-Nitroso-din-propylamine         12         UG/L         U         U         12           Phenanthren	Di-n-octylphthalate         12         UG/L         U         U         12         1           Dibenz(a,h)anthracene         12         UG/L         U         U         12         1           Dibenz(a,h)anthracene         12         UG/L         U         U         12         1           Dibenz/uran         12         UG/L         U         U         12         1           Dimethyl phthalate         12         UG/L         U         U         12         1           Fluorantheme         12         UG/L         U         U         12         1           Hexachlorobutadiene         12         UG/L         U         U         12         1           Hexachlorocyclopentadiene         12         UG/L         U         U         12         1           Hexachlorocyclopentadiene         12         UG/L         U         U         12         1           Hexachlorocyclopentadiene         12         UG/L         U         U         12         1           Indeno(1,2,3-cd)pyrene         12         UG/L         U         U         12         1           N-Nitrosodiphenylamine         12         UG/L         U

Sample ID: RQ0 Date Collected: 05/2	512 C C C C C C C C C C C C C C C C C C C	edia: Groundwater Fype: Grab				2 1 2	
Analysis	Chemical	<b>Result Units</b>	Qual (		Validation Code	Detection Limit	Dilution
Volatile Organics	GPL						
SW846 8260B	Dimethylbenzene	1 UG/L	U	U		1	1
	Ethylbenzene	1 UG/L	U	U		1	1
	Methylene chloride	1.9 UG/L	в	U	F01,F07	1	1
	Styrene	1 UG/L	U	U	18 - SAM - SM	1	1
	Tetrachloroethene	1 UG/L	U	U		1	1
	Toluene	1 UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1 UG/L	U	U		1	1
	Trichloroethene	1 UG/L	U	U		1	1
	Vinyl chloride	1 UG/L	U	U		1	1

Station: RQLmw-013 Sample ID: RQ0152 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/1	9/2004 Field Sample	2004 Field Sample Type: Grab			Data Validation		Detection	
Analysis	Chemical	Result	Units		Data Qual	Validation Code	Detection Limit	Dilution
yanide	GPL							
SW846 9014	Cyanide	0.005	MG/L	U	U		0.005	1
Explosives	GPL							
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	U		0.16	1
	1,3-Dinitrobenzene	0.16	UG/L	U	U		0.16	1
	2,4,6-Trinitrotoluene	0.16	UG/L	U	UJ	P02	0.16	i
	2,4-Dinitrotoluene	0.16	UG/L	U	U		0.16	1
	2,6-Dinitrotoluene		UG/L	Ū	Ū		0.16	i
	2-Amino-4,6-Dinitrotoluene		UG/L	Ŭ	Ū		0.16	1
	2-Nitrotoluene		UG/L	Ū	Ŭ		0.31	1
	3-Nitrotoluene		UG/L	Ŭ	Ŭ		0.31	1
	4-Amino-2,6-Dinitrotoluene		UG/L	Ŭ	ŭ		0.16	1
	4-Nitrotoluene		UG/L	Ŭ	Ŭ		0.10	1
	HMX		UG/L	Ŭ	Ŭ		0.31	1
	Nitrobenzene		UG/L	Ű	Ŭ			
SW846 9056	Nitrocellulose		MG/L	U	UJ	A03,H03	0.16	1
SW846 8330	Nitroglycerin		UG/L			A03,H03	0.179	1
011010 0000	Nitroguanidine	1.5		U	U	404	16	1
	RDX		UG/L	U	UJ	A01	10	1
			UG/L	U	UJ	P01	0.31	1
<b>F</b> !!	Tetryl	0.31	UG/L	U	U		0.31	1
Filtered Inorganics	GPL							
SW846 6010B	Aluminum		UG/L		=		5.6	1
	Antimony	1	UG/L	U	U	F10	1	1
	Arsenic	1.2	UG/L	В	J		0.35	1
	Barium	31.6	UG/L		=		0.099	1
	Beryllium	0.39	UG/L		=		0.025	1
	Cadmium	0.33	UG/L	В	J		0.18	1
	Calcium	22500	UG/L		=		33.9	1
	Chromium	2.2	UG/L	В	J		1.1	1
	Cobalt		UG/L	-	=		0.015	1
	Copper		UG/L		U	F01,F07	0.045	i
	Iron		UG/L		Ĩ	101,107	8.8	1
	Lead		UG/L	В	J		0.2	1
	Magnesium	11900		D	=		6.5	1
	Manganese		UG/L		=			
SW846 7470A	Mercury		UG/L	30			0.44	1
SW846 6010B	Nickel			U	U		0.1	1
3W040 00 10B			UG/L		=		0.28	1
	Potassium		UG/L		=		20.6	1
	Selenium	-5353100	UG/L	U	U		0.41	1
	Silver		UG/L	U	U		0.38	1
	Sodium	19200			=		56	1
	Thallium		UG/L		U	F07	0.059	1
	Vanadium		UG/L	U	U		1.6	1
	Zinc	179	UG/L	E	J	E07	0.2	1
Pesticides and PCBs	GPL							
SW846 8081A	4,4'-DDD	0.06	UG/L	U	UJ	A01	0.06	1
	4,4'-DDE	0.06	UG/L	U		A01	0.06	1
	4,4'-DDT		UG/L	U	UJ		0.06	1
	Aldrin		UG/L	Ŭ		A01	0.06	1
	alpha-BHC		UG/L	Ŭ	UJ		0.06	1
	alpha-Chlordane		UG/L	Ŭ		A01	0.06	1
	beta-BHC		UG/L	Ű		A01,P01	0.06	
	delta-BHC		UG/L	U		A01,P01		
	Dieldrin		UG/L	U		A01,P02	0.06	1
	Endosulfan I						0.06	1
	Endosulfan II		UG/L	U		A01	0.06	1
	Endosulfan sulfate		UG/L UG/L	U		A01 A01	0.06	1

Date Collected: 05/19	52         Media: Groundwater           /2004         Field Sample Type: Grab								
Analysis	Chemical	Result U	nits		Data Qual		Detection Limit	Dilution	
Pesticides and PCBs	GPL								_
SW846 8081A	Endrin	0.06 U	G/L	U	UJ	A01	0.06	1	_
	Endrin aldehyde	0.06 U	G/L	U	UJ		0.06	1	
	Endrin ketone	0.06 U	G/L	U	UJ	A REAL PROPERTY AND A REAL	0.06	1	
	gamma-Chlordane	0.06 U		Ŭ	UJ		0.06	1	
	Heptachlor	0.06 U		Ū	UJ		0.06	1	
	Heptachlor epoxide	0.06 U	G/L	U	UJ	A01	0.06	i	
	Lindane	0.06 U		Ŭ	UJ		0.06	1	
	Methoxychlor	0.06 U	G/L	Ū	UJ		0.06	1	
SW846 8082	PCB-1016	1.3 U		Ũ	UJ	A01	1.3	1	
	PCB-1221	1.3 U		Ŭ	UJ		1.3	1	
	PCB-1232	1.3 U		Ŭ	UJ		1.3	1	
	PCB-1242	1.3 U		Ŭ	UJ		1.3	1	
	PCB-1248	1.3 U		Ŭ	UJ		1.3		
	PCB-1254	1.3 U		Ŭ	UJ	110.1374.01	1.3	1	
	PCB-1260	1.3 U		Ű	UJ	A01		1	
SW846 8081A	Toxaphene	1.3 U		U U	0.000	A01	1.3 1.3	(C)	
Semi-Volatile	GPL	1.0 0	U.L	0	01	AUT	1.3	1	_
Organics	17-31270								
SW846 8270C	1,2,4-Trichlorobenzene	12 U	G/L	U	U		12	1	
	1,2-Dichlorobenzene	12 U		Ŭ	Ŭ		12	1	
	1,3-Dichlorobenzene	12 U		Ŭ	Ŭ		12	1	
	1,4-Dichlorobenzene	12 U		Ŭ	Ŭ		12	1	
	2,4,5-Trichlorophenol	12 U		Ŭ	Ŭ		12	1	
	2,4,6-Trichlorophenol	12 U		Ŭ	Ŭ		12	1	
	2,4-Dichlorophenol	12 U		Ŭ	Ŭ		12	1	
	2,4-Dimethylphenol	12 U		ŭ	ŭ		12	1	
	2,4-Dinitrophenol	24 U		Ŭ	Ŭ		24	1	
	2,4-Dinitrotoluene	12 U		Ŭ	Ŭ		12		
	2,6-Dinitrotoluene	12 U		Ű	U			1	
	2-Chloronaphthalene	12 U		U	U		12	1	
	2-Chlorophenol	12 U	C. S.	Ű	Ŭ		12	1	
	2-Methyl-4,6-dinitrophenol	24 U		υ	U		12	1	
	2-Methylnaphthalene	12 U		υ	U		24	1	
	2-Methylphenol	12 U		U	Ŭ		12	1	
	2-Nitrobenzenamine	12 U					12	1	
	2-Nitrophenol	12 U		U U	U		12	1	
	3,3'-Dichlorobenzidine				U		12	1	
	3-Nitrobenzenamine	24 U(		U	U		24	1	
	4-Bromophenyl phenyl ether	12 U		U	U		12	1	
	4-Chloro-3-methylphenol	12 U(		U	U		12	1	
	4-Chlorobenzenamine	12 U		U	U		12	1	
	4-Chlorophenyl phenyl ether	12 U		U	U		12	1	
		12 U		U	U		12	1	
	4-Methylphenol 4-Nitrobenzenamine	12 U		U	U		12	1	
		12 U		U	U		12	1	
	4-Nitrophenol	24 UC		U	U		24	1	
	Acenaphthene	12 UC		U	U		12	1	
	Acenaphthylene	12 UC		U	U		12	1	
	Anthracene	12 UC		U	U		12	1	
	Benz(a)anthracene	12 UC		U	U		12	1	
	Benzenemethanol	12 UC		U	U		12	1	
	Benzo(a)pyrene	12 UC		U	U		12	1	
	Benzo(b)fluoranthene	12 UC		U	U		12	1	
	Benzo(ghi)perylene	12 UC		U	U		12	1	
	Benzo(k)fluoranthene	12 UC		U	U		12	1	
	Benzoic acid	24 UC		U	U		24	1	
	Bis(2-chloroethoxy)methane	12 UC	G/L	U	U		12	1	

Station: RQLmw-013 Sample ID: RQ0152 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/1	19/2004 Field Sample T	ype: Grab					
Analysis	Chemical	<b>Result Units</b>	Lab   Qual		tion Detection le Limit	Dilution	
Semi-Volatile Organics	GPL						
SW846 8270C	Bis(2-chloroethyl) ether	12 UG/L	U	U	12	1	
	Bis(2-chloroisopropyl) ether	12 UG/L	U	U	12	1	
	Bis(2-ethylhexyl)phthalate	4 UG/L	J	J	12	1	
	Butyl benzyl phthalate	12 UG/L	U	U	12	1	
	Carbazole	12 UG/L	U	U	12	i	
	Chrysene	12 UG/L	U	U	12	1	
	Di-n-butyl phthalate	1.5 UG/L	J	J	12	i	
	Di-n-octylphthalate	12 UG/L	Ŭ	U	12	1	
	Dibenz(a,h)anthracene	12 UG/L	U	Ū	12	1	
	Dibenzofuran	12 UG/L	Ŭ	Ŭ	12	1	
	Diethyl phthalate	12 UG/L	Ŭ	Ŭ	12	1	
	Dimethyl phthalate	12 UG/L	Ŭ	Ŭ	12	1	
	Fluoranthene	12 UG/L	Ŭ	Ŭ		1	
	Fluorene	12 UG/L	Ŭ	Ŭ	12	1	
	Hexachlorobenzene	12 UG/L	U	U	12		
	Hexachlorobutadiene	12 UG/L	U	U	12	1	
	Hexachlorocyclopentadiene	12 UG/L	U	U	12	1	
	Hexachloroethane	12 UG/L			12	1	
	Indeno(1,2,3-cd)pyrene		U	U	12	1	
	Isophorone	12 UG/L	U	U	12	1	
		12 UG/L	U	U	12	1	
	N-Nitroso-di-n-propylamine	12 UG/L	U	U	12	1	
	N-Nitrosodiphenylamine	12 UG/L	U	U	12	1	
	Naphthalene	12 UG/L	U	U	12	1	
	Nitrobenzene	12 UG/L	U	U	12	1	
	Pentachlorophenol	24 UG/L	U	U	24	1	
	Phenanthrene	12 UG/L	U	U	12	1	
	Phenol	12 UG/L	U	U	12	1	
Volatile Organice	Pyrene	12 UG/L	U	U	12	1	
Volatile Organics SW846 8260B	GPL .	1.116.0					
300040 0200B	1,1,1-Trichloroethane	1 UG/L	U	U	1	1	
	1,1,2,2-Tetrachloroethane	1 UG/L	U	U	1	1	
	1,1,2-Trichloroethane	1 UG/L	U	U	1	1	
	1,1-Dichloroethane	1 UG/L	U	U	1	1	
	1,1-Dichloroethene	1 UG/L	U	U	1	1	
	1,2-Dibromoethane	1 UG/L	U	U	1	1	
	1,2-Dichloroethane	1 UG/L	U	U	1	1	
	1,2-Dichloroethene	1 UG/L	U	U	1	1	
	1,2-Dichloropropane	1 UG/L	U	U	1	1	
	2-Butanone	5 UG/L	U	U	5	1	
	2-Hexanone	5 UG/L	U	U	5	1	
	4-Methyl-2-pentanone	5 UG/L	U	U	5	1	
	Acetone	5 UG/L	U	UJ C05	5	1	
	Benzene	1 UG/L	U	U	1	1	
	Bromochloromethane	1 UG/L	U	U	1	1	
	Bromodichloromethane	1 UG/L	U	U	1	1	
	Bromoform	1 UG/L	U	U	1	1	
	Bromomethane	1 UG/L	U	U	1	1	
	Carbon disulfide	1 UG/L	J	U F03,F	06 1	1	
	ouroon disamae			U	1	1	
	Carbon tetrachloride	1 UG/L	U	U			
			23-3		1	1	
	Carbon tetrachloride	1 UG/L	U	U	1	1	
	Carbon tetrachloride Chlorobenzene	1 UG/L 1 UG/L	U U	U U	1	1	
	Carbon tetrachloride Chlorobenzene Chloroethane	1 UG/L 1 UG/L 1 UG/L	U U U	U U U	1	1	
	Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	1 UG/L 1 UG/L	U U	U U	1	5 C	

#### Station: RQLmw-013 Sample ID: RQ0152 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	Result Units	Lab Qual		Validation Code		
Volatile Organics	GPL	Readit Onits	Guai	Qual	Code	Limit	Dilution
SW846 8260B	Dimethylbenzene	1 UG/L	U	U		1	1
	Ethylbenzene	1 UG/L	U	U		1	i
	Methylene chloride	2.1 UG/L	В	U	F01,F07	1	1
	Styrene	1 UG/L	U	Ū	(1. 7.2.1), 7.2.	1	1
	Tetrachloroethene	1 UG/L	U	U		1	1
	Toluene	1 UG/L	U	U		i	1
	trans-1,3-Dichloropropene	1 UG/L	U	U		1	1
	Trichloroethene	1 UG/L	U	Ū		1	1
	Vinyl chloride	1 UG/L	Ū	Ū		1	1

Station: RQLmw-013 Sample ID: RQ0159 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Field Duplicate

Analysis	Chemical	Result	Units		Data Qual	Validation Code	Detection Limit	Dilution
Cyanide	GPL							
SW846 9014	Cyanide	0.005	MG/L	U	U		0.005	1
Explosives	GPL							
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	U		0.16	1
	1,3-Dinitrobenzene		UG/L	Ŭ	Ū		0.16	1
	2,4,6-Trinitrotoluene	0.16	UG/L	Ū	UJ	P02	0.16	1
	2,4-Dinitrotoluene	0.16	UG/L	Ŭ	U		0.16	1
	2,6-Dinitrotoluene	0.16	UG/L	Ū	Ū		0.16	1
	2-Amino-4,6-Dinitrotoluene		UG/L	Ŭ	Ŭ		0.16	1
	2-Nitrotoluene		UG/L	U	U		0.31	1
	3-Nitrotoluene		UG/L	Ŭ	Ŭ		0.31	1
	4-Amino-2,6-Dinitrotoluene		UG/L	Ŭ	Ŭ		0.16	i
	4-Nitrotoluene		UG/L	Ŭ	Ū		0.31	4
	HMX	0.31	UG/L	Ū	Ū		0.31	i
	Nitrobenzene		UG/L	Ū	Ŭ		0.16	1
SW846 9056	Nitrocellulose	0.179		Ŭ	UJ	A03,H03	0.179	1
SW846 8330	Nitroglycerin		UG/L	Ŭ	U	100,1100	16	1
	Nitroguanidine		UG/L	Ŭ	IJ	A01	10	1
	RDX		UG/L	Ŭ	UJ	P01	0.31	1
	Tetryl		UG/L	ŭ	U	101	0.31	1 .
Filtered Inorganics	GPL				-		0.01	
SW846 6010B	Aluminum	4560	UG/L		=		5.6	1
	Antimony		UG/L	U	υ	F10	1	1
	Arsenic		UG/L	-	=		0.35	1
	Barium	32.1	UG/L		=		0.099	1
	Beryllium		UG/L		=		0.025	1
	Cadmium		UG/L	В	J		0.18	1
	Calcium	22400		-	=		33.9	i
	Chromium		UG/L	U	U		1.1	1
	Cobalt		UG/L		=		0.015	1
	Copper		UG/L		U	F01,F07	0.045	1
	Iron		UG/L		=		8.8	i
	Lead		UG/L	В	J		0.2	1
	Magnesium	11700			=		6.5	1
	Manganese		UG/L		=		0.44	1
SW846 7470A	Mercury		UG/L	U	U		0.1	1
SW846 6010B	Nickel		UG/L		=		0.28	1
	Potassium		UG/L		=		20.6	1
	Selenium		UG/L	U	U		0.41	1
	Silver		UG/L	Ŭ	U		0.38	1
							2.00	

Station: RQLmw-013

Analysis	/19/2004 Field Sample T Chemical	Result	97 04240-2420	Lab Qual		Validation Code	Detection Limit	Dilution
Filtered Inorganics	GPL GPL							Sindhorn
SW846 6010B	Thallium	1.1	UG/L		U	F07	0.059	1
	Vanadium	1.6	UG/L	U	U		1.6	i
	Zinc	187	UG/L	E	J	E07	0.2	1
Pesticides and PC	Bs GPL				-		012	
SW846 8081A	4,4'-DDD	0.06	UG/L	U	UJ	A01	0.06	1
	4.4'-DDE	0.06	UG/L	U	UJ	A01	0.06	1
	4,4'-DDT	0.06	UG/L	U	UJ		0.06	1
	Aldrin		UG/L	Ū	UJ		0.06	1
	alpha-BHC	0.06	UG/L	U	UJ	A01	0.06	1
	alpha-Chlordane	0.06	UG/L	U		A01	0.06	1
	beta-BHC	0.06	UG/L	U		A01,P01	0.06	1
	delta-BHC		UG/L	U		A01,P02	0.06	i
	Dieldrin	0.06	UG/L	U	UJ		0.06	i
	Endosulfan I		UG/L	U	UJ		0.06	1
	Endosulfan II		UG/L	Ŭ	UJ	A01	0.06	1
	Endosulfan sulfate		UG/L	Ŭ	UJ		0.06	1
	Endrin		UG/L	U		A01	0.06	1
	Endrin aldehyde		UG/L	Ŭ		A01,P01	0.06	1
	Endrin ketone		UG/L	U		A01	0.06	i
	gamma-Chlordane		UG/L	Ū	UJ	A01	0.06	1
	Heptachlor		UG/L	Ū	UJ	A01	0.06	1
	Heptachlor epoxide		UG/L	Ŭ	UJ		0.06	1
	Lindane	0.50.5670	UG/L	Ŭ	UJ		0.06	1
	Methoxychlor		UG/L	Ŭ	UJ	A01	0.06	1
SW846 8082	PCB-1016		UG/L	Ŭ	UJ	A01	1.3	1
	PCB-1221		UG/L	Ŭ	UJ	A01	1.3	1
	PCB-1232		UG/L	Ŭ	UJ	A01	1.3	1
	PCB-1242		UG/L	Ŭ	UJ	A01	1.3	1
	PCB-1248		UG/L	Ŭ		A01	1.3	1
	PCB-1254		UG/L	U	UJ	A01	1.3	1
	PCB-1260		UG/L	Ŭ	UJ	A01	1.3	1
SW846 8081A	Toxaphene		UG/L	Ŭ	UJ		1.3	1
Semi-Volatile	GPL		UUIL		00		1.5	1
Organics								
SW846 8270C	1,2,4-Trichlorobenzene	13	UG/L	U	U		13	1
	1,2-Dichlorobenzene		UG/L	U	Ū		13	1
	1,3-Dichlorobenzene		UG/L	Ŭ	Ŭ		13	1
	1,4-Dichlorobenzene		UG/L	U	Ū		13	i
	2,4,5-Trichlorophenol		UG/L	U	U		13	1
	2,4,6-Trichlorophenol		UG/L	Ū	U		13	1
	2,4-Dichlorophenol		UG/L	Ū	Ū		13	i
	2,4-Dimethylphenol		UG/L	U	U		13	i
	2,4-Dinitrophenol	25	UG/L	Ū	Ū		25	1
	2,4-Dinitrotoluene		UG/L	U	U		13	1
	2,6-Dinitrotoluene		UG/L	U	U		13	1
	2-Chloronaphthalene		UG/L	Ŭ	Ū		13	i
	2-Chlorophenol		UG/L	U	Ū		13	i
	2-Methyl-4,6-dinitrophenol		UG/L	Ū	U		25	i
	2-Methylnaphthalene		UG/L	Ū	Ū		13	i
	2-Methylphenol		UG/L	Ŭ	Ŭ		13	1
	2-Nitrobenzenamine		UG/L	Ŭ	ŭ		13	i
	2-Nitrophenol		UG/L	U	ŭ		13	i
	3,3'-Dichlorobenzidine		UG/L	Ŭ	ŭ		25	1
	3-Nitrobenzenamine		UG/L	Ŭ	ŭ		13	1
	4-Bromophenyl phenyl ether		UG/L	ŭ	ŭ		13	i
			second and a second second		Ŭ			

Station: RQLmw-013 Sample ID: RQ0159 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Field Duplicate

Analysis	Chemical	<b>Result Units</b>	Lab Data Valida Qual Qual Cod	
iemi-Volatile Organics	GPL			
W846 8270C	4-Chlorobenzenamine	13 UG/L	υυ	13 1
	4-Chlorophenyl phenyl ether	13 UG/L	υυ	13 1
	4-Methylphenol	13 UG/L	υυ	13 1
	4-Nitrobenzenamine	13 UG/L	υυ	13 1
	4-Nitrophenol	25 UG/L	υυ	25 1
	Acenaphthene	13 UG/L	υυ	13 1
	Acenaphthylene	13 UG/L	υυ	13 1
	Anthracene	13 UG/L	υυ	13 1
	Benz(a)anthracene	13 UG/L	υυ	13 1
	Benzenemethanol	13 UG/L	υυ	13 1
	Benzo(a)pyrene	13 UG/L	υυ	13 1
	Benzo(b)fluoranthene	13 UG/L	υυ	13 1
	Benzo(ghi)perylene	13 UG/L	υŪ	13 1
	Benzo(k)fluoranthene	13 UG/L	υŪ	13 1
	Benzoic acid	25 UG/L	υυ	25 1
	Bis(2-chloroethoxy)methane	13 UG/L	υυ	13 1
	Bis(2-chloroethyl) ether	13 UG/L	υŭ	13 1
	Bis(2-chloroisopropyl) ether	13 UG/L	υυ	13 1
	Bis(2-ethylhexyl)phthalate	3.3 UG/L	JJ	13 1
	Butyl benzyl phthalate	13 UG/L	υυ	13 1
	Carbazole	13 UG/L	υυ	13 1
	Chrysene	13 UG/L	υυ	
	Di-n-butyl phthalate	1.5 UG/L	1 1	
	Di-n-octylphthalate	13 UG/L	υυ	
	Dibenz(a,h)anthracene	13 UG/L		13 1
	Dibenzofuran	13 UG/L		13 1
	Diethyl phthalate			13 1
	Dimethyl phthalate	13 UG/L 13 UG/L		13 1
	Fluoranthene	13 UG/L		13 1 -
	Fluorene		U U	13 1
	Hexachlorobenzene	13 UG/L	U U	13 1
	Hexachlorobutadiene	13 UG/L	υυ	13 1
		13 UG/L	U U	13 1
	Hexachlorocyclopentadiene	13 UG/L	υυ	13 1
	Hexachloroethane	13 UG/L	υυ	13 1
	Indeno(1,2,3-cd)pyrene	13 UG/L	υυ	13 1
	Isophorone	13 UG/L	υυ	13 1
	N-Nitroso-di-n-propylamine	13 UG/L	υυ	13 1
	N-Nitrosodiphenylamine	13 UG/L	υυ	13 1
	Naphthalene	13 UG/L	υυ	13 1
	Nitrobenzene	13 UG/L	υυ	13 1
	Pentachlorophenol	25 UG/L	υu	25 1
	Phenanthrene	13 UG/L	υυ	13 1
	Phenol	13 UG/L	υυ	13 1
	Pyrene	13 UG/L	υυ	13 1
olatile Organics	GPL			
W846 8260B	1,1,1-Trichloroethane	1 UG/L	UU	1 1
	1,1,2,2-Tetrachloroethane	1 UG/L	υυ	1 1
	1,1,2-Trichloroethane	1 UG/L	υυ	1 1
	1,1-Dichloroethane	1 UG/L	υυ	1 1
	1,1-Dichloroethene	1 UG/L	υυ	1 1
	1,2-Dibromoethane	1 UG/L	υυ	1 1
	1,2-Dichloroethane	1 UG/L	υu	1 1
	1,2-Dichloroethene	1 UG/L	υυ	1 1
	1,2-Dichloropropane 2-Butanone	1 UG/L	υυ	1 1
		5 UG/L	υυ	

Sample ID: RQ0 Date Collected: 05/1		edia: Groundwater Type: Field Duplicate		200 102	101202003		
Analysis	Chemical	<b>Result Units</b>	Lab I Qual 0		Validation Code	Detection Limit	Dilution
Volatile Organics	GPL						
SW846 8260B	2-Hexanone	5 UG/L	U	U		5	1
	4-Methyl-2-pentanone	5 UG/L	U	U		5	1
	Acetone	5 UG/L	U	UJ	C05	5	1
	Benzene	1 UG/L	U	U		1	1
	Bromochloromethane	1 UG/L	U	υ		1	1
	Bromodichloromethane	1 UG/L	U	U		1	1
	Bromoform	1 UG/L	U	U		1	1
	Bromomethane	1 UG/L	U	U		1	1
	Carbon disulfide	1.3 UG/L		U	F03,F07	1	1
	Carbon tetrachloride	1 UG/L	U	U		1	1
	Chlorobenzene	1 UG/L	U	U		1	1
	Chloroethane	1 UG/L	U	U		1	1
	Chloroform	1 UG/L	U	U		1	1
	Chloromethane	1 UG/L	U	U		1	1
	cis-1,3-Dichloropropene	1 UG/L	U	U		1	1
	Dibromochloromethane	1 UG/L	U	υ		1	1
	Dimethylbenzene	1 UG/L	υ	U		1	1
	Ethylbenzene	1 UG/L	U	υ		1	1
	Methylene chloride	1.9 UG/L	в	U	F01,F07	1	1
	Styrene	1 UG/L	U	U		1	1
	Tetrachloroethene	1 UG/L	U	U		1	1
	Toluene	1 UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1 UG/L	U	U		1	1
	Trichloroethene	1 UG/L	U	U		1	1
	Vinyl chloride	1 UG/L	U	U		1	1

Station: RQLmw-014 Sample ID: RQ0153 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/19	/2004 Field Sample 1	Type: Grab							
Analysis	Chemical	Result	Units		Qual	Validation Code	Limit	Dilution	
Cyanide	GPL								
SW846 9014	Cyanide	0.005	MG/L	U	U		0.005	1	
Explosives	GPL								
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	U		0.16	1	
	1,3-Dinitrobenzene	0.16	UG/L	U	U		0.16	1	
	2,4,6-Trinitrotoluene	0.16	UG/L	U	UJ	P02	0.16	1	
	2,4-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2-Amino-4,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	3-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	4-Amino-2,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	4-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	HMX	0.31	UG/L	U	U		0.31	1	
	Nitrobenzene	0.16	UG/L	U	U		0.16	1	
SW846 9056	Nitrocellulose	0.179	MG/L	U	UJ	A03,H03	0.179	1	
SW846 8330	Nitroglycerin	16	UG/L	U	U		16	1	
	Nitroguanidine	10	UG/L	U	UJ	A01	10	1	
	RDX	0.31	UG/L	U	UJ	P01	0.31	1	
	Tetryl	0.31	UG/L	U	U	44 - 2004	0.31	1	
Filtered Inorganics	GPL								
SW846 6010B	Aluminum	15.1	UG/L	В	U	F01,F06	5.6	1	
	Antimony	1	UG/L	U	U	F10	1	1	
	Arsenic	0.35	UG/L	U	U		0.35	1	
	Barium		UG/L		=		0.099	1	
	Beryllium	0.025	UG/L	U	U		0.025	1	
	Cadmium	0.18	UG/L	U	U		0.18	1	
	Calcium	21000	UG/L		=		33.9	1	
	Chromium	1.8	UG/L	В	J		1.1	1	
	Cobalt	9.4	UG/L		=		0.015	1	
	Copper	1.4	UG/L		U	F01,F07	0.045	1	
	Iron	6740	UG/L		=		8.8	1	
	Lead	0.2	UG/L	В	J		0.2	1	
	Magnesium	10300	UG/L		=		6.5	1	
	Manganese	2080	UG/L		=		0.44	1	
SW846 7470A	Mercury	0.1	UG/L	U	U		0.1	1	
SW846 6010B	Nickel	19.3	UG/L		=		0.28	1	
	Potassium	2670	UG/L		=		20.6	1	
	Selenium	0.41	UG/L	U	U		0.41	1	
	Silver		UG/L	υ	U		0.38	1	
	Sodium		UG/L		=		56	1	
	Thallium		UG/L	В	U	F01,F06	0.059	1	
	Vanadium		UG/L	U			1.6	1	
	Zinc		UG/L	E		E07	0.2	1	
Pesticides and PCBs	GPL								_
SW846 8081A	4,4'-DDD		UG/L	U			0.08	1	
	4,4'-DDE	0.08	UG/L	U	UJ	A01	0.08	1	
	4,4'-DDT	0.08	UG/L	U		A01	0.08	1	
	Aldrin		UG/L	U		A01	0.08	1	
	alpha-BHC	0.08	UG/L	U	UJ	A01	0.08	1	
	alpha-Chlordane	0.08	UG/L	U	UJ	A01	0.08	1	
	beta-BHC	0.08	UG/L	U	UJ	A01,P01	0.08	1	
	delta-BHC	0.08	UG/L	U	UJ	A01,P02	0.08	1	
	Dieldrin	0.08	UG/L	U	UJ	A01	0.08	1	
	Endosulfan I	0.08	UG/L	U	UJ	A01	0.08	1	
			UG/L UG/L	U U		A01 A01	0.08 0.08	1	

Date Collected: 05/19	153 Me 9/2004 Field Sample T								
Analysis	Chemical	Result	Units	Lab Qual		Validation Code	Detection Limit	Dilution	
Pesticides and PCBs	GPL								
W846 8081A	Endrin	0.08	UG/L	U	UJ	A01	0.08	1	
	Endrin aldehyde	0.08	UG/L	U	UJ	A01,P01	0.08	1	
	Endrin ketone	0.08	UG/L	U	UJ	A01	0.08	1	
	gamma-Chlordane	0.08	UG/L	U	UJ	A01	0.08	1	
	Heptachlor	0.08	UG/L	U	UJ	A01	0.08	1	
	Heptachlor epoxide	0.08	UG/L	U	UJ	A01	0.08	1	
	Lindane	0.08	UG/L	U	UJ	A01	0.08	1	
	Methoxychlor	0.08	UG/L	U	UJ	A01	0.08	1	
SW846 8082	PCB-1016	1.5	UG/L	U	UJ	A01	1.5	1	
	PCB-1221	1.5	UG/L	U	UJ	A01	1.5	1	
	PCB-1232	1.5	UG/L	U	UJ	A01	1.5	1	
	PCB-1242	1.5	UG/L	U	UJ	A01	1.5	1	
	PCB-1248	1.5	UG/L	U	UJ	A01	1.5	1	
	PCB-1254	1.5	UG/L	U	UJ	A01	1.5	1	
	PCB-1260	1.5	UG/L	U	UJ		1.5	1	
SW846 8081A	Toxaphene	1.5	UG/L	U	UJ	A01	1.5	1	
Semi-Volatile	GPL								
Organics SW846 8270C	1,2,4-Trichlorobenzene	13	UG/L	U	U		13	1	
	1,2-Dichlorobenzene		UG/L	Ŭ	Ŭ		13	i	
	1,3-Dichlorobenzene		UG/L	Ŭ	ŭ		13	1	
	1,4-Dichlorobenzene		UG/L	Ŭ	Ŭ		13	1	
	2,4,5-Trichlorophenol		UG/L	Ŭ	Ŭ		13	i	
	2,4,6-Trichlorophenol		UG/L	Ŭ	ŭ		13	1	
	2,4-Dichlorophenol		UG/L	Ū	Ŭ		13	1	
	2,4-Dimethylphenol		UG/L	Ŭ	Ŭ		13	1	
	2,4-Dinitrophenol		UG/L	Ŭ	Ŭ		25	1	
	2,4-Dinitrotoluene		UG/L	ŭ	Ŭ		13	1	
	2,6-Dinitrotoluene		UG/L	Ŭ	Ŭ		13	i	
	2-Chloronaphthalene		UG/L	ŭ	Ŭ		13	1	
	2-Chlorophenol		UG/L	Ŭ	Ŭ		13	1	
	2-Methyl-4,6-dinitrophenol		UG/L	U	U		25	1	
	2-Methylnaphthalene	0.000	UG/L	ŭ	Ŭ		13	1	
	2-Methylphenol		UG/L	ŭ	Ŭ		13	1	
	2-Nitrobenzenamine		UG/L	Ŭ	Ŭ		13	1	
	2-Nitrophenol	10.75	UG/L	U U	Ŭ		13	1	
	3,3'-Dichlorobenzidine		UG/L	U	U		25		
	3-Nitrobenzenamine		UG/L	U	U		13	1	
	4-Bromophenyl phenyl ether		UG/L	Ű	Ŭ		13		
	4-Chloro-3-methylphenol		UG/L	U	U		13	1	
	4-Chlorobenzenamine		UG/L	υ	Ű		13	1	
	4-Chlorophenyl phenyl ether		UG/L	U	U				
	4-Methylphenol			U	U		13	1	
	4-Nitrobenzenamine		UG/L UG/L	U	U		13	1	
	4-Nitrophenol		UG/L	U			13	1	
	4-Nitrophenol Acenaphthene			1000	U		25	1	
	Acenaphthylene		UG/L	U	U		13	1	
			UG/L	U	U		13	1	
	Anthracene		UG/L	U	U		13	1	
	Benz(a)anthracene		UG/L	U	U		13	1	
	Benzenemethanol		UG/L	U	U		13	1	
	Benzo(a)pyrene		UG/L	U	U		13	1	
	Benzo(b)fluoranthene		UG/L	U	U		13	1	
	Benzo(ghi)perylene		UG/L	U	U		13	1	
	Benzo(k)fluoranthene Benzoic acid		UG/L UG/L	U U	U U		13 25	1	
			1 11 11/1		11		10	1	

Station: RQLmw-014 Sample ID: RQ0153 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	<b>Result Units</b>	Qual G		/alidation I Code	Limit	Dilution
Semi-Volatile Organics	GPL						
SW846 8270C	Bis(2-chloroethyl) ether	13 UG/L	U	U		13	1
	Bis(2-chloroisopropyl) ether	13 UG/L	U	U		13	1
	Bis(2-ethylhexyl)phthalate	3.3 UG/L	J	J		13	1
	Butyl benzyl phthalate	13 UG/L	U	U		13	1
	Carbazole	13 UG/L	U	U		13	1
	Chrysene	13 UG/L	U	U		13	1
	Di-n-butyl phthalate	2 UG/L	J	J		13	1
	Di-n-octylphthalate	13 UG/L	U	U		13	1
	Dibenz(a,h)anthracene	13 UG/L	U	Ū		13	1
	Dibenzofuran	13 UG/L	U	U		13	1
	Diethyl phthalate	13 UG/L	Ŭ	Ŭ		13	i
	Dimethyl phthalate	13 UG/L	Ŭ	ŭ		13	1
	Fluoranthene	13 UG/L	Ŭ	υ		13	1
	Fluorene		Ű	Ŭ			1
		13 UG/L		1000		13	1
	Hexachlorobenzene	13 UG/L	U	U		13	1
	Hexachlorobutadiene	13 UG/L	U	U		13	1
	Hexachlorocyclopentadiene	13 UG/L	U	U		13	1
	Hexachloroethane	13 UG/L	U	U		13	1
	Indeno(1,2,3-cd)pyrene	13 UG/L	U	U		13	1
	Isophorone	13 UG/L	U	U		13	1
	N-Nitroso-di-n-propylamine	13 UG/L	U	U		13	1
	N-Nitrosodiphenylamine	13 UG/L	U	U		13	1
	Naphthalene	13 UG/L	U	U		13	1
	Nitrobenzene	13 UG/L	U	U		13	1
	Pentachlorophenol	25 UG/L	U	U		25	1
	Phenanthrene	13 UG/L	Ū	Ū		13	1
	Phenol	13 UG/L	Ŭ	Ŭ		13	1
	Pyrene	13 UG/L	Ŭ	Ŭ		13	1
Volatile Organics	GPL	10 0012	<u> </u>	÷			
SW846 8260B	1,1,1-Trichloroethane	1 UG/L	U	UJ	G02	1	1
	1,1,2,2-Tetrachloroethane	1 UG/L	U	UJ	G02	1	1
	1,1,2-Trichloroethane	1 UG/L	Ū	UJ	G02	1	1
	1,1-Dichloroethane	1 UG/L	ŭ	UJ	G02	1	1
	1,1-Dichloroethene	1 UG/L	Ŭ	UJ	G02	i	i
	1,2-Dibromoethane	1 UG/L	ŭ	UJ	G02	1	1
	1,2-Dichloroethane	1 UG/L	U	UJ	G02	1	1
	1,2-Dichloroethene	1 UG/L	U	UJ	G02	1	1
	1,2-Dichloropropane	1 UG/L	U	UJ	G02	1	1
	2-Butanone	5 UG/L	U	UJ	G02	5	1
	2-Hexanone	5 UG/L	U	UJ	G02	5	1
	4-Methyl-2-pentanone	5 UG/L	U		G02	5	1
	Acetone	5 UG/L	U		G02,C05	5	1
	Benzene	1 UG/L	U	UJ	G02	1	1
	Bromochloromethane	1 UG/L	U	UJ	G02	1	1
	Bromodichloromethane	1 UG/L	U	UJ	G02	1	1
	Bromoform	1 UG/L	U	UJ	G02	1	1
	Bromomethane	1 UG/L	Ŭ		G02	1	1
	Carbon disulfide	1 UG/L	J		G02,F03, F06	1	1
	Carbon tetrachloride	1 UG/L	U	UJ	G02	1	1
		1 UG/L	Ŭ	UJ		1	1
	Chlorobenzene						
	Chlorobenzene Chloroethane		0	11.1	G02	1	- F
	Chloroethane	1 UG/L	U		G02	1	1
	Chloroethane Chloroform	1 UG/L 1 UG/L	U	UJ	G02	1	1
	Chloroethane Chloroform Chloromethane	1 UG/L 1 UG/L 1 UG/L	U U	UJ UJ	G02 G02	1	1
	Chloroethane Chloroform	1 UG/L 1 UG/L	U	UJ UJ UJ	G02 G02	1 1 1 1	1

Sample ID: RQ		edia: Groundwater					
Date Collected: 05/1	9/2004 Field Sample 1	ype: Grab	Lab	Data \	alidation [	Detection	
Analysis	Chemical	<b>Result Units</b>	Qual	Qual	Code	Limit	Dilution
Volatile Organics	GPL						
SW846 8260B	Dimethylbenzene	1 UG/L	U	UJ	G02	1	1
	Ethylbenzene	1 UG/L	U	UJ	G02	1	1
	Methylene chloride	2.1 UG/L	В	UJ	G02,F01, F07	1	1
	Styrene	1 UG/L	U	UJ	G02	1	1
	Tetrachloroethene	1 UG/L	U	UJ	G02	1	1
	Toluene	1 UG/L	U	UJ	G02	1	1
	trans-1,3-Dichloropropene	1 UG/L	U	UJ	G02	1	1
	Trichloroethene	1 UG/L	U	UJ	G02	1	1
	Vinyl chloride	1 UG/L	U	UJ	G02	1	1

Station: RQLmw-015 Sample ID: RQ0154 Date Collected: 05/21/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/21	/2004 Field Sample T	ype: Grab		Lab	Data	Validation	Detection		
Analysis	Chemical	Result	Units		Qual	Code	Limit	Dilution	
Cyanide	GPL								
SW846 9014	Cyanide	0.005	MG/L	U	U		0.005	1	
Explosives	GPL								
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	U		0.16	1	
	1,3-Dinitrobenzene	0.16	UG/L	U	U		0.16	1	
	2,4,6-Trinitrotoluene	0.16	UG/L	U	UJ	P02	0.16	1	
	2,4-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2-Amino-4,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	3-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	4-Amino-2,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	4-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	HMX		UG/L	U	U		0.31	1	
	Nitrobenzene		UG/L	U	U		0.16	1	
SW846 9056	Nitrocellulose	0.179		Ū	UJ	A03,H03	0.179	1	
SW846 8330	Nitroglycerin		UG/L	Ŭ	U		16	i	
011010 0000	Nitroguanidine		UG/L	Ű		A01	10	1	
	RDX		UG/L	U	UJ		0.31	i	
			UG/L	Ű		PUT	0.31	1	
Filtered Increanies	Tetryl GPL	0.31	00/L	0	0		0.31	1	
Filtered Inorganics SW846 6010B		04.5	UG/L			F01,F07		1	
SVV846 6010B	Aluminum				U	이 것, 이 것 같아요. 정말 데 아파 우리	5.6		
	Antimony		UG/L	U		F10	1	1	
	Arsenic		UG/L	U			0.35	1	
	Barium		UG/L		=		0.099	1	
	Beryllium	0.031		В			0.025	1	
	Cadmium		UG/L	U	1 - 253		0.18	1	
	Calcium	18500			=		33.9	1	
	Chromium		UG/L	U	U		1.1	1	
	Cobalt	0.88	UG/L		=		0.015	1	
	Copper	4.2	UG/L		U	F01,F07	0.045	1	
	Iron	23.2	UG/L	В	U	F01,F06	8.8	1	
	Lead	0.43	UG/L	В	J		0.2	1	
	Magnesium	8770	UG/L		=		6.5	1	
	Manganese	854	UG/L		=		0.44	1	
SW846 7470A	Mercury	0.1	UG/L	U	U		0.1	1	
SW846 6010B	Nickel		UG/L		=		0.28	1	
	Potassium		UG/L		=		20.6	1	
	Selenium		UG/L	U			0.41	1	
	Silver		UG/L	Ŭ			0.38	1	
	Sodium		UG/L		=		56	1	
	Thallium		UG/L		U	F01,F07	0.059	1	
	Vanadium		UG/L	U		101,107	1.6	1	
	Zinc		UG/L	E		E07	0.2	1	
Pesticides and PCBs		115	JUL	E	J	207	0.2		
		0.00	110/			A01	0.00	4	
SW846 8081A	4,4'-DDD		UG/L	U			0.06	1	
	4,4'-DDE		UG/L	U			0.06	1	
	4,4'-DDT		UG/L	U			0.06	1	
	Aldrin		UG/L	U			0.06	1	
	alpha-BHC		UG/L	U	9 0474		0.06	1	
	alpha-Chlordane		UG/L	U		A01	0.06	1	
	beta-BHC		UG/L	U			0.06	1	
	delta-BHC		UG/L	U		A01,P02		1	
	Dieldrin		UG/L	U			0.06	1	
	Endosulfan I	0.06	UG/L	U			0.06	1	
	Endosulfan II	0.06	UG/L	U		A01	0.06	1	
1						A01	0.06		

	2004 Field Sample Ty		Lab [	Data \	/alidation	Detection	
Analysis	Chemical	Result Units	Qual		Code	Limit	Dilution
Pesticides and PCBs	GPL						
SW846 8081A	Endrin	0.06 UG/L	U	UJ	A01	0.06	1
	Endrin aldehyde	0.06 UG/L	U	UJ	A01,P01	0.06	1
	Endrin ketone	0.06 UG/L	U	UJ	A01	0.06	1
	gamma-Chlordane	0.06 UG/L	U	UJ	A01	0.06	1
	Heptachlor	0.06 UG/L	U	UJ	A01	0.06	1
	Heptachlor epoxide	0.06 UG/L	U	UJ	A01	0.06	1
	Lindane	0.06 UG/L	U	UJ	A01	0.06	1
	Methoxychlor	0.06 UG/L	U	UJ	A01	0.06	1
SW846 8082	PCB-1016	1.5 UG/L	U	UJ	A01	1.5	1
	PCB-1221	1.5 UG/L	U	UJ	A01	1.5	1
	PCB-1232	1.5 UG/L	U	UJ	A01	1.5	1
	PCB-1242	1.5 UG/L	U	UJ	A01	1.5	1
	PCB-1248	1.5 UG/L	U	UJ	A01	1.5	1
	PCB-1254	1.5 UG/L	U	UJ	A01	1.5	1
	PCB-1260	1.5 UG/L	U	UJ	A01	1.5	1
SW846 8081A	Toxaphene	1.2 UG/L	U	UJ	A01	1.2	1
Semi-Volatile	GPL						
Organics	er strom er 41						
SW846 8270C	1,2,4-Trichlorobenzene	12 UG/L	U	U		12	1
	1,2-Dichlorobenzene	12 UG/L	U	U		12	1
	1,3-Dichlorobenzene	12 UG/L	U	U		12	1
	1,4-Dichlorobenzene	12 UG/L	U	U		12	1
	2,4,5-Trichlorophenol	12 UG/L	U	U		12	1
	2,4,6-Trichlorophenol	12 UG/L	U	U		12	1
	2,4-Dichlorophenol	12 UG/L	U	U		12	1
	2,4-Dimethylphenol	12 UG/L	U	U		12	1
	2,4-Dinitrophenol	24 UG/L	U	U		24	1
	2,4-Dinitrotoluene	12 UG/L	U	U		12	1
	2,6-Dinitrotoluene	12 UG/L	U	U		12	1
	2-Chloronaphthalene	12 UG/L	U	U		12	1
	2-Chlorophenol	12 UG/L	U	U		12	1
	2-Methyl-4,6-dinitrophenol	24 UG/L	U	U		24	1
	2-Methylnaphthalene	12 UG/L	U	U		12	1
	2-Methylphenol	12 UG/L	U	U		12	1
	2-Nitrobenzenamine	12 UG/L	U	U		12	1
	2-Nitrophenol	12 UG/L	U	U		12	1
	3,3'-Dichlorobenzidine	24 UG/L	Ū	U		24	1
	3-Nitrobenzenamine	12 UG/L	U	Ŭ		12	1
	4-Bromophenyl phenyl ether	12 UG/L	U	U		12	1
	4-Chloro-3-methylphenol	12 UG/L	Ŭ	Ŭ		12	1
	4-Chlorobenzenamine	12 UG/L	Ŭ	Ŭ		12	1
	4-Chlorophenyl phenyl ether	12 UG/L	Ŭ	Ŭ		12	1
	4-Methylphenol	12 UG/L	Ŭ	Ŭ		12	1
	4-Nitrobenzenamine	12 UG/L	Ŭ	Ŭ		12	1
	4-Nitrophenol	24 UG/L	Ŭ	Ŭ		24	1
	Acenaphthene	12 UG/L	Ű	ŭ		12	1
	Acenaphthylene	12 UG/L	U	Ŭ		12	1
	Anthracene	12 UG/L	Ű	υ		12	1
	Benz(a)anthracene	12 UG/L	U	U		12	4
			U	U		12	1
	Benzenemethanol	12 UG/L	U	U			1
	Benzo(a)pyrene	12 UG/L	979			12	-
	Benzo(b)fluoranthene	12 UG/L	U	U		12	
	Benzo(ghi)perylene	12 UG/L	0	U		12	1
	Papao/k)fluoranthana	10 110/	11	1.1		40	1
	Benzo(k)fluoranthene Benzoic acid	12 UG/L 24 UG/L	U U	U U		12 24	1

Station: RQLmw-015 Sample ID: RQ0154 Date Collected: 05/21/2004

Media: Groundwater Field Sample Type: Grab

GPL Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether	12 UG/L 12 UG/L	U	U		12	1	
		U	U		12	1	
Bis(2-chloroisopropyl) ether	12 110/						
		U	U		12	1	
Bis(2-ethylhexyl)phthalate	3.1 UG/L	J	J		12	1	
Butyl benzyl phthalate	12 UG/L	U	U		12	1	
Carbazole	12 UG/L	U	U		12	1	
3.77							
Di-n-octylphthalate							
Dibenz(a,h)anthracene		200	1200				
		1972					
		133.0					
Fluoranthene							
Fluorene							
Hexachlorobenzene							
Hexachlorobutadiene	12 UG/L	U					
Hexachlorocyclopentadiene		U					
Hexachloroethane	12 UG/L						
Indeno(1,2,3-cd)pyrene	12 UG/L	U			12		
Isophorone		U			12		
N-Nitroso-di-n-propylamine	12 UG/L	U	U			1	
N-Nitrosodiphenylamine	12 UG/L	U	U		12	1	
Naphthalene	12 UG/L	U				1	
Nitrobenzene	12 UG/L	U	12212				
Pentachlorophenol							
Phenanthrene							
Phenol		1000					
Pyrene	12 UG/L	U	U		12	1	
	4 1104						_
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		0.00			1	1	
		0		F00 F07	1	1	
		2017		F03,F07	() ()	1	
						1	
Chlorobenzene	1 UG/L	U	U		1	1	
Chloroethane	1 UG/L	U	U		1	1	
Chloroethane Chloroform	1 UG/L	U	U		1	1	
Chloroethane		1000				1 1 1	
	Chrysene Di-n-butyl phthalate Di-n-octylphthalate Dibenz(a,h)anthracene Dibenzofuran Diethyl phthalate Dimethyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene Phenol	Chrysene         12         UG/L           Di-n-butyl phthalate         12         UG/L           Di-n-octylphthalate         12         UG/L           Dibenz(a,h)anthracene         12         UG/L           Dibenzofuran         12         UG/L           Dibenzofuran         12         UG/L           Dimethyl phthalate         12         UG/L           Dimethyl phthalate         12         UG/L           Fluoranthene         12         UG/L           Fluorene         12         UG/L           Hexachlorobenzene         12         UG/L           Hexachlorocyclopentadiene         12         UG/L           Hexachloroethane         12         UG/L           Hexachloroethane         12         UG/L           Indeno(1,2,3-cd)pyrene         12         UG/L           Isophorone         12         UG/L           N-Nitrosodiphenylamine         12         UG/L           Naphthalene         12         UG/L           Naphthalene         12         UG/L           Nitrobenzene         12         UG/L           Phenol         12         UG/L           Phenol         12         UG/L	Chrysene         12         UG/L         U           Di-n-butyl phthalate         12         UG/L         U           Di-n-octylphthalate         12         UG/L         U           Dibenz(a,h)anthracene         12         UG/L         U           Dibenz(a,h)anthracene         12         UG/L         U           Dibenz(a,h)anthracene         12         UG/L         U           Dimethyl phthalate         12         UG/L         U           Dimethyl phthalate         12         UG/L         U           Fluoranthene         12         UG/L         U           Fluoranthene         12         UG/L         U           Hexachlorobutadiene         12         UG/L         U           Hexachlorocyclopentadiene         12         UG/L         U           Hexachlorocyclopentadiene         12         UG/L         U           Indeno(1,2,3-cd)pyrene         12         UG/L         U           Isophorone         12         UG/L         U           N-Nitrosodiphenylamine         12         UG/L         U           Naphthalene         12         UG/L         U           Phenathrene         12         UG/L	Chrysene         12         UG/L         U         U           Di-n-butyl phthalate         12         UG/L         U         U           Di-n-octylphthalate         12         UG/L         U         U           Dibenz(a,h)anthracene         12         UG/L         U         U           Dibenz(a,h)anthracene         12         UG/L         U         U           Dibenz(a,h)anthracene         12         UG/L         U         U           Diethyl phthalate         12         UG/L         U         U           Fluorene         12         UG/L         U         U           Hexachlorobenzene         12         UG/L         U         U           Hexachlorocyclopentadiene         12         UG/L         U         U           Hexachlorocyclopentadiene         12         UG/L         U         U           Hexachlorocyclopentadiene         12         UG/L         U         U           Indeno(1,2,3-cd)pyrene         12         UG/L         U         U           N-Nitroso-di-n-propylamine         12         UG/L         U         U           N-Nitroso-diphenylamine         12         UG/L         U         U	Chrysene         12         UG/L         U         U           Di-n-butyl phthalate         12         UG/L         U         U           Di-n-octylphthalate         12         UG/L         U         U           Dibenzofuran         12         UG/L         U         U           Dibenzofuran         12         UG/L         U         U           Dimethyl phthalate         12         UG/L         U         U           Dimethyl phthalate         12         UG/L         U         U           Fluoranthene         12         UG/L         U         U           Hexachlorobutadiene         12         UG/L         U         U           Hexachlorobutadiene         12         UG/L         U         U           Hexachlorobutadiene         12         UG/L         U         U           Hexachlorophene         12         UG/L         U         U           Isophorone         12         UG/L         U         U           N-Nitrosodiphenylamine         12         UG/L         U         U           Nehltosodiphenylamine         12         UG/L         U         U           Phenal	Chrysene         12         UG/L         U         U         12           Di-n-butyl phthalate         12         UG/L         U         U         12           Di-n-octyl phthalate         12         UG/L         U         U         12           Dibenzofuran         12         UG/L         U         U         12           Dibenzofuran         12         UG/L         U         U         12           Dientyl phthalate         12         UG/L         U         U         12           Dimethyl phthalate         12         UG/L         U         U         12           Fluorene         12         UG/L         U         U         12           Hexachlorobenzene         12         UG/L         U         U         12           Hexachlorocyclopentadiene         12         UG/L         U         U         12           Indeno(1,2,3-od)pyrene         12         UG/L         U         U         12           Isophorone         12         UG/L         U         U         12           Naphthalene         12         UG/L         U         U         12           Naphthalene         12	Chrysene         12         UG/L         U         U         12         1           Din-butyl phthalate         12         UG/L         U         U         12         1           Din-octyl phthalate         12         UG/L         U         U         12         1           Dibenzofuran         12         UG/L         U         U         12         1           Diethyl phthalate         12         UG/L         U         U         12         1           Diethyl phthalate         12         UG/L         U         U         12         1           Fluoranthene         12         UG/L         U         U         12         1           Hexachlorobutadiene         12         UG/L         U         U         12         1           Hexachlorocyclopentaldiene         12         UG/L         U         U         12         1           Indenor(1,2,3-cd)pyrene         12         UG/L         U         U         12         1           Isophorone         12         UG/L         U         U         12         1           Nultroso-din-propylamine         12         UG/L         U         U         12<

Sample ID: RQ0 Date Collected: 05/2		Media: Groundwater ield Sample Type: Grab		ab Data Validation Detection					
Analysis	Chemical	<b>Result Units</b>	Qual		Code	Limit	Dilution		
Volatile Organics	GPL								
SW846 8260B	Dimethylbenzene	1 UG/L	U	U		1	1		
	Ethylbenzene	1 UG/L	U	U		1	1		
	Methylene chloride	2.1 UG/L	В	U	F01,F07	1	1		
	Styrene	1 UG/L	U	U		1	1		
	Tetrachloroethene	1 UG/L	U	U		1	1		
	Toluene	1 UG/L	U	U		1	1		
	trans-1,3-Dichloropropene	1 UG/L	U	U		1	1		
	Trichloroethene	1 UG/L	U	U		1	1		
	Vinyl chloride	1 UG/L	U	U		1	1		

Station: RQLmw-016 Sample ID: RQ0155 Date Collected: 05/21/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/21	/2004 Field Sample 1	Type: Grab		1.12	Dete 1		Detection		
Analysis	Chemical	Result	Units		Qual	Code	Detection Limit	Dilution	
yanide	GPL								
SW846 9014	Cyanide	0.005	MG/L	U	U		0.005	1	
Explosives	GPL								
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	U		0.16	1	
	1,3-Dinitrobenzene	0.16	UG/L	U	U		0.16	1	
	2,4,6-Trinitrotoluene	0.16	UG/L	U	UJ	P02	0.16	1	
	2,4-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2-Amino-4,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	2-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	3-Nitrotoluene	0.31	UG/L	U	υ		0.31	1	
	4-Amino-2,6-Dinitrotoluene	0.16	UG/L	U	U		0.16	1	
	4-Nitrotoluene	0.31	UG/L	U	U		0.31	1	
	HMX	0.31	UG/L	U	U		0.31	1	
	Nitrobenzene	0.16	UG/L	U	U		0.16	1	
SW846 9056	Nitrocellulose		MG/L	U	UJ	A03,H03	0.179	1	
SW846 8330	Nitroglycerin		UG/L	U			16	1	
	Nitroguanidine		UG/L	U		A01	10	1	
	RDX		UG/L	U			0.31	1	
	Tetryl		UG/L	Ū			0.31	1	
Filtered Inorganics	GPL								
SW846 6010B	Aluminum	24.8	UG/L		U	F01,F07	5.6	1	
011010 00100	Antimony		UG/L	U	100	F10	1	1	
	Arsenic		UG/L	В			0.35	1	
	Barium		UG/L	5	=		0.099	1	
	Beryllium		UG/L	U			0.025	1	
	Cadmium		UG/L	Ŭ			0.18	i	
	Calcium	126000			=		33.9	1	
	Chromium		UG/L	U			1.1	1	
			UG/L	0	=		0.015	1	
	Cobalt		UG/L		Ū	F01.F07		1	
	Copper		UG/L		=	101,107	8.8	1	
	Iron		UG/L	В			0.2	1	
	Lead			D	=		6.5	1	
	Magnesium		UG/L		=		0.44	1	
	Manganese		UG/L	L			0.44	1	
SW846 7470A	Mercury		UG/L	L.	, 0			1	
SW846 6010B	Nickel		UG/L				0.28		
	Potassium		UG/L		=		20.6	1	
	Selenium		UG/L	L			0.41	1	
	Silver		UG/L	L	8 874		0.38	1	
	Sodium		UG/L		=	503	56	1	
	Thallium		UG/L		. U	F07	0.059	1	
	Vanadium		UG/L	L L		507	1.6	1	
	Zinc	40.2	UG/L	E	J	E07	0.2	1	
Pesticides and PCBs					1 27		1242.00		
SW846 8081A	4,4'-DDD		UG/L	L			0.05	1	
	4,4'-DDE		UG/L	L			0.05	1	
	4,4'-DDT		UG/L	L			0.05	1	
	Aldrin		UG/L	L		A01	0.05	1	
	alpha-BHC		GUG/L	Ļ			0.05	1	
	alpha-Chlordane		UG/L	L		J A01	0.05	1	
	beta-BHC		GUG/L	ι		J A01,P01		1	
	delta-BHC		GUG/L			J A01,P02		1	
	Dieldrin		GUG/L			J A01	0.05	1	
	Endosulfan I		i UG/L	ι		J A01	0.05	1	
	Endosulfan II		i UG/L	ι		J A01	0.05	1	
	Endosulfan sulfate	0.05	5 UG/L	L	J U	J A01	0.05	1	

Station: RQLmw-016

Date Collected: 05/2	1997-19 E 19	580 0.890 - 0.890 - 1940	1000		/alidation Code	Detection Limit	Dilution
Analysis	Chemical	Result Units	Qual	Qual	Code	Limit	Dilution
Pesticides and PCBs		0.05 110/			404	0.05	
SW846 8081A	Endrin	0.05 UG/L	U	UJ	A01	0.05	1
	Endrin aldehyde	0.05 UG/L	U	UJ		0.05	1
	Endrin ketone	0.05 UG/L	U		A01	0.05	1
	gamma-Chlordane	0.05 UG/L	U	UJ	A01	0.05	1
	Heptachlor	0.05 UG/L	U	UJ	A01	0.05	1
	Heptachlor epoxide	0.05 UG/L	U	UJ	A01	0.05	1
	Lindane	0.05 UG/L	U	UJ	A01	0.05	1
	Methoxychlor	0.05 UG/L	U	UJ	A01	0.05	1
SW846 8082	PCB-1016	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1221	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1232	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1242	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1248	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1254	1.2 UG/L	U	UJ	A01	1.2	1
	PCB-1260	1.2 UG/L	U	UJ	A01	1.2	1
SW846 8081A	Toxaphene	1 UG/L	U	UJ	A01	1	1
Semi-Volatile Organics	GPL						
SW846 8270C	1,2,4-Trichlorobenzene	11 UG/L	U	U		11	1
	1,2-Dichlorobenzene	11 UG/L	U	U		11	1
	1,3-Dichlorobenzene	11 UG/L	U	U		11	1
	1,4-Dichlorobenzene	11 UG/L	U	U		11	1
	2,4,5-Trichlorophenol	11 UG/L	U	U		11	1
	2,4,6-Trichlorophenol	11 UG/L	U	U		11	1
	2,4-Dichlorophenol	11 UG/L	Ū	Ū		11	1
	2,4-Dimethylphenol	11 UG/L	Ŭ	Ŭ		11	1
	2,4-Dinitrophenol	21 UG/L	Ŭ	Ŭ		21	1
	2,4-Dinitrotoluene	11 UG/L	Ŭ	Ŭ		11	1
	2,6-Dinitrotoluene	11 UG/L	Ŭ	Ŭ		11	1
		11 UG/L	ŭ	Ŭ		11	1
	2-Chloronaphthalene	11 UG/L	Ű	υ		11	1
	2-Chlorophenol	21 UG/L	Ű	Ŭ		21	1
	2-Methyl-4,6-dinitrophenol		5.7	U		11	1
	2-Methylnaphthalene	11 UG/L	U				-
	2-Methylphenol	11 UG/L	U	U		11	1
	2-Nitrobenzenamine	11 UG/L	U	U		11	1
	2-Nitrophenol	11 UG/L	U	U		11	1
	3,3'-Dichlorobenzidine	21 UG/L	U	U		21	1
	3-Nitrobenzenamine	11 UG/L	U	U		11	1
	4-Bromophenyl phenyl ether	11 UG/L	U	U		11	1
	4-Chloro-3-methylphenol	11 UG/L	U			11	1
	4-Chlorobenzenamine	11 UG/L	U	U		11	1
	4-Chlorophenyl phenyl ether	11 UG/L	U	U		11	1
	4-Methylphenol	11 UG/L	U	U		11	1
	4-Nitrobenzenamine	11 UG/L	U	U		11	1
	4-Nitrophenol	21 UG/L	U	U		21	1
	Acenaphthene	11 UG/L	U	U		11	1
	Acenaphthylene	11 UG/L	U	U		11	1
	Anthracene	11 UG/L	U	U		11	1
	Benz(a)anthracene	11 UG/L	U	U		11	1
	Benzenemethanol	11 UG/L	U	U		11	1
	Benzo(a)pyrene	11 UG/L	U	U		11	1
	Benzo(b)fluoranthene	11 UG/L	U	U		11	1
	Benzo(ghi)perylene	11 UG/L	U	U		11	1
	Benzo(k)fluoranthene	11 UG/L	U			11	1
	Benzoic acid	21 UG/L	Ŭ	666		21	1

Station: RQLmw-016 Sample ID: RQ0155 Date Collected: 05/21/2004

Media: Groundwater Field Sample Type: Grab

Analysis	Chemical	Result Units	Qual Qua	a Validation al Code	Limit	Dilution	
Semi-Volatile Organics	GPL						
SW846 8270C	Bis(2-chloroethyl) ether	11 UG/L		U	11	1	
	Bis(2-chloroisopropyl) ether	11 UG/L		U	11	1	
	Bis(2-ethylhexyl)phthalate	15 UG/L		=	11	1	
	Butyl benzyl phthalate	11 UG/L		U	11	1	
	Carbazole	11 UG/L	U	U	11	1	
	Chrysene	11 UG/L	U	U	11	1	
	Di-n-butyl phthalate	1.5 UG/L	J	J	11	1	
	Di-n-octylphthalate	11 UG/L	U	U	11	1	
	Dibenz(a,h)anthracene	11 UG/L	U	U	11	1	
	Dibenzofuran	11 UG/L	U	U	11	1	
	Diethyl phthalate	11 UG/L	U	U	11	1	
	Dimethyl phthalate	11 UG/L		U	11	1	
	Fluoranthene	11 UG/L		ŭ	11	1	
	Fluorene	11 UG/L		ŭ	11	1	
		11 UG/L		Ŭ	11	i	
	Hexachlorobenzene			U	11	1	
	Hexachlorobutadiene	11 UG/L					
	Hexachlorocyclopentadiene	11 UG/L		U	11	1	
	Hexachloroethane	11 UG/L		U	11	1	
	Indeno(1,2,3-cd)pyrene	11 UG/L		U	11	1	
	Isophorone	11 UG/L		υ	11	1	
	N-Nitroso-di-n-propylamine	11 UG/L		U	11	1	
	N-Nitrosodiphenylamine	11 UG/L	U	U	11	1	
	Naphthalene	11 UG/L	U	U	11	1	
	Nitrobenzene	11 UG/L	U	U	11	1	
	Pentachlorophenol	21 UG/L	U	U	21	1	
	Phenanthrene	11 UG/L	U	U	11	1	
	Phenol	11 UG/L		U	11	1	
	Pyrene	11 UG/L		Ū	11	1	
Volatile Organics	GPL						_
SW846 8260B	1,1,1-Trichloroethane	1 UG/L	U	U	1	1	
	1,1,2,2-Tetrachloroethane	1 UG/L	U	U	1	1	
	1,1,2-Trichloroethane	1 UG/L	U	U	1	1	
	1,1-Dichloroethane	1 UG/L	U	U	1	1	
	1,1-Dichloroethene	1 UG/L	Ū	Ŭ	1	1	
	1,2-Dibromoethane	1 UG/L		Ŭ	1	1	
	1,2-Dichloroethane	1 UG/L		ŭ	1	1	
		1 UG/L	U	U	4	4	
	1,2-Dichloroethene			U	1	1	
	1,2-Dichloropropane	1 UG/L					
	2-Butanone	5 UG/L	U	U	5	1	
	2-Hexanone	5 UG/L	U	U	5	1	
	4-Methyl-2-pentanone	5 UG/L	U	U	5	1	
	Acetone	5 UG/L		UJ C05	5	1	
	Benzene	1 UG/L		U	1	1	
	Bromochloromethane	1 UG/L	U	U	1	1	
	Bromodichloromethane	1 UG/L	U	U	1	1	
	Bromoform	1 UG/L	U	U	1	1	
	Bromomethane	1 UG/L	U	U	1	1	
	Carbon disulfide	1.8 UG/L		U F03,F07	1	1	
	Carbon tetrachloride	1 UG/L	U	U	1	1	
	Chlorobenzene	1 UG/L	Ŭ	Ŭ	1	1	
	Chloroethane	1 UG/L	Ŭ	U	1	1	
	Chloroform	1 UG/L	Ŭ	U	1	1	
	Chloromethane	1 UG/L	U	U	1	1	
		1 UG/L	U	υ	4	1	
	cis-1,3-Dichloropropene				1		
	Dibromochloromethane	1 UG/L	U	U	1	1 .	

Sample ID: RQ0 Date Collected: 05/2		edia: Ground Type: Grab	water	Lab	Data	Validation	Detection	
Analysis	Chemical	Result	Units		Qual		Limit	Dilution
Volatile Organics	GPL							
SW846 8260B	Dimethylbenzene	1	UG/L	U	U		1	1
	Ethylbenzene	1	UG/L	U	U		1	1
	Methylene chloride	1.9	UG/L	В	U	F01,F07	1	1
	Styrene	1	UG/L	U	U		1	1
	Tetrachloroethene	1	UG/L	U	U		1	1
	Toluene	1	UG/L	U	U		1	1
	trans-1,3-Dichloropropene	1	UG/L	U	U		1	1
	Trichloroethene	1	UG/L	U	U		1	1
	Vinyl chloride	1	UG/L	U	U		1	1

Station: RQLmw-017 Sample ID: RQ0156 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/19/2	Field Sample Type: Grab			3.32	Dete 1		on Detection		
Analysis	Chemical	Result	Units		Qual	Code	Limit	Dilution	
yanide	GPL								
W846 9014	Cyanide	0.005	MG/L	U	U		0.005	1	
xplosives	GPL								
SW846 8330	1,3,5-Trinitrobenzene	0.16	UG/L	U	UJ	G02	0.16	1	
	1,3-Dinitrobenzene	0.16	UG/L	U	UJ	C08,G02	0.16	1	
	2,4,6-Trinitrotoluene	0.16	UG/L	U	UJ	G02,P02	0.16	1	
	2,4-Dinitrotoluene	0.16	UG/L	U	UJ	G02	0.16	1	
	2,6-Dinitrotoluene	0.16	UG/L	U	UJ	G02	0.16	1	
	2-Amino-4,6-Dinitrotoluene	0.16	UG/L	U	UJ	G02	0.16	1	
	2-Nitrotoluene	0.31	UG/L	U	UJ	G02	0.31	1	
	3-Nitrotoluene	0.31	UG/L	U	UJ	G02	0.31	1	
	4-Amino-2,6-Dinitrotoluene	0.16	UG/L	U	UJ	G02	0.16	1	
	4-Nitrotoluene		UG/L	U	UJ	G02	0.31	1	
	HMX	0.31	UG/L	U	UJ	G02	0.31	1	
	Nitrobenzene		UG/L	U	UJ	G02	0.16	1	
SW846 9056	Nitrocellulose	0.179		U	UJ	A03,H03	0.179	1	
SW846 8330	Nitroglycerin		UG/L	U	U		16	1	
	Nitroguanidine		UG/L	Ŭ		A01	10	1	
	RDX		UG/L	U			0.31	1	
	Tetryl		UG/L	ŭ			0.31	1	
Filtered Inorganics	GPL	0.01	0012						
SW846 6010B	Aluminum	11400	LIG/I		=		5.6	1	
300040 00 IUB	Antimony		UG/L	U		F10	1	1	
			UG/L	Ŭ		110	0.35	1	
	Arsenic		UG/L	0	=		0.099	1	
	Barium		UG/L		=		0.035	1	
	Beryllium				=		0.023	1	
	Cadmium		UG/L		-			1	
	Calcium	43500					33.9		
	Chromium		UG/L		=		1.1 0.015	1	
	Cobalt		UG/L		=	E02 E07		-	
	Copper		UG/L		U	F03,F07	0.045	1	
	Iron		UG/L		=		8.8	1	
	Lead		UG/L		=		0.2	1	
	Magnesium	13300			=		6.5	1	
	Manganese		UG/L		=		0.44	1	
SW846 7470A	Mercury		UG/L	L			0.1	1	
SW846 6010B	Nickel	136	UG/L		=		0.28	1	
	Potassium	3270	UG/L		=		20.6	1	
	Selenium	0.47	UG/L	E	s J		0.41	1	
	Silver	0.38	UG/L	L	υ		0.38	1	
	Sodium	4990	UG/L		=		56	1	
	Thallium	0.42	UG/L		U	F01,F07	0.059	1	
	Vanadium		UG/L	L	υ		1.6	1	
	Zinc	781	UG/L	E	J	E07	0.2	1	
Pesticides and PCBs	GPL								
SW846 8081A	4,4'-DDD	0.06	UG/L	L	J U.	A01	0.06	1	
1717 BERETE STATES	4.4'-DDE		UG/L	ι			0.06	1	
	4.4'-DDT		UG/L	ι			0.06	1	
	Aldrin		UG/L	i		A01	0.06	1	
	alpha-BHC		UG/L	i			0.06	1	
	alpha-Chlordane		UG/L	i			0.06	1	
	beta-BHC		UG/L			A01,P01		1	
	delta-BHC		UG/L			J A01,P02		1	
	Dieldrin		UG/L			J A01	0.06	1	
	Endosulfan I		UG/L			J A01	0.06	i	
	Endosulfan II		UG/L			J A01	0.06	1	
			UG/L			J A01	0.06	1	
	Endosulfan sulfate	0.00	00/2		. 0.		0.00		

Sample ID: RQ01	56 <b>Me</b>	dia: Groundwater		
Date Collected: 05/19	/2004 Field Sample Ty	rpe: Grab	Lab Data Validation Detection	
Analysis	Chemical	<b>Result Units</b>	Qual Qual Code Limit	Dilutio
Pesticides and PCBs	GPL			
SW846 8081A	Endrin	0.06 UG/L	U UJ A01 0.06	1
	Endrin aldehyde	0.06 UG/L	U UJ A01,P01 0.06	1
	Endrin ketone	0.06 UG/L	U UJ A01 0.06	1
	gamma-Chlordane	0.06 UG/L	U UJ A01 0.06	1
	Heptachlor	0.06 UG/L	U UJ A01 0.06	1
	Heptachlor epoxide	0.06 UG/L	U UJ A01 0.06	1
	Lindane	0.06 UG/L	U UJ A01 0.06	1
	Methoxychlor	0.06 UG/L	U UJ A01 0.06	1
SW846 8082	PCB-1016	1.2 UG/L	U UJ A01 1.2	1
011040 0002	PCB-1221	1.2 UG/L	U UJ A01 1.2	1
	PCB-1232	1.2 UG/L	U UJ A01 1.2	1
	PCB-1242	1.2 UG/L	U UJ A01 1.2	1
	PCB-1248	1.2 UG/L	U UJ A01 1.2	1
	PCB-1254	1.2 UG/L	U UJ A01 1.2	1
	PCB-1260	1.2 UG/L	U UJ A01 1.2	1
SW846 8081A	Toxaphene	1.2 UG/L	U UJ A01 1.2	1
Semi-Volatile	GPL	1.2 00/2	0 00 101 112	
Organics				
SW846 8270C	1,2,4-Trichlorobenzene	12 UG/L	U U 12	1
	1,2-Dichlorobenzene	12 UG/L	U U 12	1
	1,3-Dichlorobenzene	12 UG/L	U U 12	1
	1,4-Dichlorobenzene	12 UG/L	U U 12	1
	2,4,5-Trichlorophenol	12 UG/L	U U 12	1
	2,4,6-Trichlorophenol	12 UG/L	U U 12	1
	2,4-Dichlorophenol	12 UG/L	U U 12	1
	2,4-Dimethylphenol	12 UG/L	U U 12	1
	2,4-Dinitrophenol	24 UG/L	U U 24	1
	2,4-Dinitrotoluene	12 UG/L	U U 12	1
	2,6-Dinitrotoluene	12 UG/L	U U 12	1
	2-Chloronaphthalene	12 UG/L	U U 12	1
	2-Chlorophenol	12 UG/L	U U 12	1
	2-Methyl-4,6-dinitrophenol	24 UG/L	U U 24	1
	2-Methylnaphthalene	12 UG/L	U U 12	1
	2-Methylphenol	12 UG/L	U U 12	1
	2-Nitrobenzenamine	12 UG/L	U U 12	1
	2-Nitrophenol	12 UG/L	U U 12	1
	3,3'-Dichlorobenzidine	24 UG/L	U U 24	1
	3-Nitrobenzenamine	12 UG/L	U U 12	1
	4-Bromophenyl phenyl ether	12 UG/L	U U 12	1
	4-Chloro-3-methylphenol	12 UG/L	U U 12	1
	4-Chlorobenzenamine	12 UG/L	U U 12	1
	4-Chlorophenyl phenyl ether	12 UG/L	U U 12	1
	4-Methylphenol	12 UG/L	U U 12	1
	4-Nitrobenzenamine	12 UG/L	U U 12	1
	4-Nitrophenol	24 UG/L	U U 24	1
	Acenaphthene	12 UG/L	U U 12	1
	Acenaphthylene	12 UG/L	U U 12	1
	Anthracene	12 UG/L	U U 12	1
	Benz(a)anthracene	12 UG/L	U U 12	1
	Benzenemethanol	12 UG/L	U U 12	1
	Son Control of the local sector of the local s			

Benzo(a)pyrene

Benzoic acid

Benzo(b)fluoranthene

Benzo(ghi)perylene

Benzo(k)fluoranthene

Bis(2-chloroethoxy)methane

Page 25

12 UG/L

12 UG/L

12 UG/L

12 UG/L

24 UG/L

12 UG/L

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Station: RQLmw-017 Sample ID: RQ0156 Date Collected: 05/19/2004

Media: Groundwater Field Sample Type: Grab

Date Collected: 05/1	9/2004 Field Sample T		Lab D	ata Va	alidation	Detection		
Analysis	Chemical	Result Units	Qual Q	ual	Code	Limit	Dilution	
Semi-Volatile Organics	GPL							
SW846 8270C	Bis(2-chloroethyl) ether	12 UG/L	U	U		12	1	
	Bis(2-chloroisopropyl) ether	12 UG/L	U	U		12	1	
	Bis(2-ethylhexyl)phthalate	9.5 UG/L	J	J		12	1	
	Butyl benzyl phthalate	12 UG/L	U	U		12	1	
	Carbazole	12 UG/L	U	U		12	1	
	Chrysene	12 UG/L	U	U		12	1	
	Di-n-butyl phthalate	1.7 UG/L	J	J		12	1	
	Di-n-octylphthalate	12 UG/L	U	U		12	1	
	Dibenz(a,h)anthracene	12 UG/L	U	U		12	1	
	Dibenzofuran	12 UG/L	U	U		12	1	
	Diethyl phthalate	12 UG/L	U	U		12	1	
	Dimethyl phthalate	12 UG/L	Ū	U		12	1	
	Fluoranthene	12 UG/L	Ŭ	Ŭ		12	1	
	Fluorene	12 UG/L	Ŭ	Ŭ		12	1	
	Hexachlorobenzene	12 UG/L	Ŭ	Ŭ		12	1	
	Hexachlorobutadiene	12 UG/L	Ŭ	Ŭ		12	1	
		12 UG/L	U	Ŭ		12	4	
	Hexachlorocyclopentadiene		U	U		12	1	
	Hexachloroethane	12 UG/L 12 UG/L	U	U		12	4	
	Indeno(1,2,3-cd)pyrene		10.00	1.000			1	
	Isophorone	12 UG/L	U	U		12		
	N-Nitroso-di-n-propylamine	12 UG/L	U	U		12	1	
	N-Nitrosodiphenylamine	12 UG/L	U	U		12	1	
	Naphthalene	12 UG/L	U	U		12	1	
	Nitrobenzene	12 UG/L	U	U		12	1	
	Pentachlorophenol	24 UG/L	U	υ		24	1	
	Phenanthrene	12 UG/L	U	U		12	1	
	Phenol	12 UG/L	U	U		12	1	
	Pyrene	12 UG/L	U	U		12	1	
Volatile Organics	GPL							
SW846 8260B	1,1,1-Trichloroethane	1 UG/L	U	UJ	G02	1	1	
	1,1,2,2-Tetrachloroethane	1 UG/L	U	1000	G02	1	1	
	1,1,2-Trichloroethane	1 UG/L	U		G02	1	1	
	1,1-Dichloroethane	1 UG/L	U	UJ	G02	1	1	
	1,1-Dichloroethene	1 UG/L	U	UJ		1	1	
	1,2-Dibromoethane	1 UG/L	U	UJ	G02	1	1	
	1,2-Dichloroethane	1 UG/L	U	UJ	G02	1	1	
	1,2-Dichloroethene	1 UG/L	U	UJ	G02	1	1	
	1,2-Dichloropropane	1 UG/L	U	UJ	G02	1	1	
	2-Butanone	5 UG/L	U	UJ	G02	5	1	
	2-Hexanone	5 UG/L	U	UJ	G02	5	1	
	4-Methyl-2-pentanone	5 UG/L	Ū		G02	5	1	
	Acetone	5 UG/L	U		G02,C05		1	
	Benzene	1 UG/L	Ŭ	UJ		1	1	
	Bromochloromethane	1 UG/L	Ŭ	UJ		1	1	
	Bromodichloromethane	1 UG/L	Ŭ	UJ		1	1	
	Bromoform	1 UG/L	Ŭ	UJ		1	1	
	Bromomethane	1 UG/L	Ű	UJ		4	1	
	Carbon disulfide	1.2 UG/L	5		G02,F03	i, 1	1	
			202		F07	e 8	20 (22)	
	Carbon tetrachloride	1 UG/L	U	UJ		1	1	
	Chlorobenzene	1 UG/L	U		G02	1	1	
	Chloroethane	1 UG/L	U		G02	1	1	
	Chloroform	1 UG/L	U		G02	1	1	
	Chloromethane	1 UG/L	U	UJ	G02	1	1	
	Chickentano							
	cis-1,3-Dichloropropene	1 UG/L	U	UJ	G02 G02	1	1 1	

Sample ID: RQ0 Date Collected: 05/1		edia: Groundw ype: Grab	/ater	Lab	Data \	/alidation	Detection	
Analysis	Chemical	Result	Units		Qual	Code	Limit	Dilution
Volatile Organics	GPL							
SW846 8260B	Dimethylbenzene	1	UG/L	U	UJ	G02	1	1
	Ethylbenzene	1	UG/L	U	UJ	G02	1	1
	Methylene chloride	1.8	UG/L	В	UJ	G02,F01, F07	1	1
	Styrene	1	UG/L	U	UJ	G02	1	1
	Tetrachloroethene	1	UG/L	U	UJ	G02	1	1
	Toluene	1	UG/L	U	UJ	G02	1	1
	trans-1,3-Dichloropropene	1	UG/L	U	UJ	G02	1	1
	Trichloroethene	1	UG/L	U	UJ	G02	1	1
	Vinyl chloride	1	UG/L	U	UJ	G02	1	1

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#### Comment Responses for Final Phase I Remedial Investigation May 2004 Follow-On Groundwater Sampling at the Ramsdell Quarry Landfill at the Ravenna Army Ammunition Plant, Ravenna, Ohio Comment Response Table Rev. 3/16/05

Comment	Page or			rage 1 01 5					
Number	Sheet	Comment	Recommendation	Response					
	Ohio EPA DDAGW (C. McCambridge, T. Fisher)								
1.	Section 3.1, Table 3-1, Figure 3-1, pg. 3-2	Issue 1: There is a discrepancy between the ground water elevations for RQLmw-017 in Table 3-1 (967.94) and Figure 3-1 (967.99).	Issue 1: Please correct the discrepancy.	Issue 1: Agree. 967.94 is correct. The figure has been revised to correct the typo.					
		Issue 2: Most of the ground water sampling logs found in Appendix A did not contain ground water elevations for sampled wells (i.e., samples RQ0153, RQ0151, sample #? From RQLmw-017).	Issue 2: Please provide the field data sheets detailing ground water elevation information on wells which samples were collected from.	Issue 2: Clarification. Contemporaneous water level elevations were recorded on May 19, 2004, prior to any sampling in the Field Manager's logbook rather than in the sampling logbook. As part of the QA process, additional details have been added and the sheet included. Steps have been taken to ensure that the information is recorded in the correct location in future field efforts.					
		Issue 3: Figure 3.1 does not contain arrows illustrating the inferred ground water flow direction. Only surface drainage direction arrows have been added.	Issue 3: Add arrows to illustrate the inferred ground water flow direction.	Issue 3: Agree. Arrows showing inferred groundwater flow direction have been added to this figure.					
		Issue 4: The text does not state whether ground water elevations were measured before purging or sampling.	Issue 4: Please provide additional details concerning this issue.	Issue 4: Agree. The text states that, "Groundwater samples were collected from each of the six Phase I RI monitoring wells following AOC-wide water-level measurements." However, additional text has been added to Chapter 3.0 to make this clearer to the reader.					

Page 1 of 3

#### Comment Responses for Final Phase I Remedial Investigation May 2004 Follow-On Groundwater Sampling at the Ramsdell Quarry Landfill at the Ravenna Army Ammunition Plant, Ravenna, Ohio Comment Response Table Rev. 3/16/05

Page 2 of 3

Comment Number	Page or Sheet	Comment	Recommendation	Response
2.	Section 3.3, Table 3.2, pg. 3-4	This table indicates that the summary statistics were only compared with site background criteria. This data was not compared with MCLs	Revise this table to ensure that MCLs are listed in addition to site background criteria.	Clarification. Table 3.2 compares results to both site background and PRGs; however, columns comparing the results to MCLs (primary and secondary) have been added as requested.
3.	Section 3.3, Table 3-3, pg. 3-5.	Table 3-3 provided no explanation for the various symbols (=, *, U, and J) used as data qualifiers	Provide an explanation of the symbols used in Table 3-3 for clarification.	Agree. Footnotes defining the symbols used as data qualifiers have been added to the table.
4.	Appendix A Well Sampling Logs	Issue 1: Water table elevations were not recorded on the field data sheets that are included in the submittal.	Issue 1: Please provide the field data sheets recording the water table elevations for this sampling event (May 2004)	Issue 1: See response to Comment 1, Issue 2.
		Issue 2: During the Phase I groundwater sampling activities, final turbidity readings of > 5 NTUs were noted on the sampling logs of the following monitoring well locations: RQLmw-013, RQLmw-014, RQLmw-015, RQLmw-016, and RQLmw-017. The reasons for these elevated turbidity readings are not discussed or explained in the submittal.	Issue 2: Provide a discussion concerning the measurement of turidity and the procedures that were implemented to obtain representative groundwater samples	Issue 2: Clarification. These wells were developed in accordance with work plan specifications to obtain the lowest turbidity readings possible. Micropurge sampling methods were employed for wells where possible (recharge rates were too slow at RQLmw-015, -016, and -017). Despite these measures, turbidity levels remained above 5 NTUs in most wells. Accordingly, only filtered metals samples were obtained. Text has been added with this discussion.

#### Comment Responses for Final Phase I Remedial Investigation May 2004 Follow-On Groundwater Sampling at the Ramsdell Quarry Landfill at the Ravenna Army Ammunition Plant, Ravenna, Ohio Comment Response Table Rev. 3/16/05

Page 3 of 3

Comment Number	Page or Sheet Comment		Recommendation	Response		
		Issue 3: On the well sampling sheet for RQLmw-017, pH values of 3.13 (initial reading) and 3.68 (final reading) were noted. A pH value of 3.95 was recorded during the purging activities of RQLmw- 102. No explanation for these low pH readings was given in the text.	Issue 3: Were low pH values noted at this monitoring well location during prior sampling events? Please provide a discussion concerning these low pH readings from RQLmw-017.	Issue 3: Clarification. In December 2003, both RQLmw-012 and -013 had low pH readings (3.8 to 3.9), while RQLmw-017 was in the slightly acidic to normal (5 to 6 pH) range. The reason for this is not known. Text has been added to discuss this observation.		
5.	Appendix B	The analytical results section does not contain the chain of custody forms for the May 2004 groundwater sampling event.	Please insert the completed chain of custody forms of the May 2004 sampling event in the revised document.	Agree. COCs have been added.		