Table 7-1
Physico-Chemical Properties of Contaminants of Concern
WCP East Grand Avenue WQARF Site RI

Chemical	Specific Gravity	Water Solubility [1] (mg/L)	Vapor Pressure[2] (mm Hg)	Henry's Law Constant[2] (atm-m^3/mol)	K_{oc}[3] (mL/g)
PCE	1.62	150	18.5	1.77×10^{-2}	303
TCE	1.46	1,100	69	9.85×10^{-3}	152
1,1-DCE	1.21	400	591	2.61×10^{-2}	217

(1) Cohen, R.M. and J. W. Mercer, DNAPL Site Evaluation. 1993.

Solubility at 25 °C.

(2) Toxicology Data Network, National Library of Medicine (Toxnet). Hazardous Substance Data base, http://toxnet.nlm.nih.gov (28 Aug 2001).

Vapor pressure and Henry's Law Constants at 25 °C.

(3) Fetter, C.W., Applied Hydrogeology. 1994.

Table 7-2
Physical Properties of Soil
WCP East Grand Avenue WQARF Site Remedial Investigation

Sample ID	Soil Type	Laboratory	Void Ratio	Total Porosity (%)	Moisture Content (%)	Bulk Density[1] (g/cm^3)	Specific Gravity	Total Organic Carbon [2] (%)	Permeability (cm/sec)
SB-14-036	Silty sand	ATL	0.459	31.5	10.6	1.998	2.641	<0.08 [3]	8.46×10^{-4}
SB-14-056	Silty sand	ATL	0.585	36.9	9.6	1.891	2.740	<0.07 [3]	4.23×10^{-2}
SB-14-111	Sandy silt	ATL	0.869	46.5	26.2	1.765	2.620	<0.08 [3]	1.69×10^{-3}
SB-15-167	Silt with sand	ATL	0.876	46.7	31.7	1.797	2.566	<0.12 [3]	1.05×10^{-2}
SB-17-006	Sandy silt	ATL	1.021	50.5	17.9	1.503	2.581	<0.09 [3]	--
SB-17-071	Silt	ATL	0.768	43.4	16.6	1.754	2.665	<0.08 [3]	2.12×10^{-3}
SB-17-106	Sandy silt	ATL	0.617	38.2	17.1	1.826	2.528	<0.08 [3]	6.35×10^{-3}
SB-17-136	Poorly graded sand	ATL	0.889	47.1	21.9	1.668	2.590	<0.09 [3]	4.23×10^{-3}
WCP-47-126	Silty sand	ATL	0.413	29.2	13.6	2.177	2.714	NT	1.8×10^{-5}
WCP-84-126	Silty sand	ATL	0.459	31.4	15.6	2.163	2.735	NT	9.7×10^{-5}
WCP-84-141	Silt with sand	ATL	0.917	47.8	31.5	1.849	NT	NT	2.7×10^{-6}
WCP-84-151	Silty sand	ATL	0.444	30.8	15.1	2.151	2.705	NT	8.9×10^{-4}
WCP-85-126	Silty sand	ATL	0.825	45.2	30.4	1.898	2.662	NT	2.1×10^{-6}
WCP-87-126	Silty sand	ATL	NT	NT	NT	NT	NT	NT	1.7×10^{-4}
WCP-87-131	Silty sand	ATL	0.686	40.7	22.5	1.978	2.728	NT	2.8×10^{-6}
WCP-87-151	Silt	ATL	0.365	26.8	13.3	2.236	NT	NT	1.8×10^{-6}
WCP-88-131	Sandy silt	ATL	0.713	41.6	24.9	1.986	2.729	NT	1.3×10^{-5}
WCP-92-121	Silty sand	PNL	NT	30.9	10.7	2.240	NT	ND	7.4×10^{-6}
WCP-92-135	Sandy silt	PNL	NT	50.6	22.1	1.990	NT	ND	1.8×10^{-6}

Table 7-2 (continued)
Summary of Soil Physical Properties
WCP East Grand Avenue WQARF Site Remedial Investigation

Sample ID	Soil Type	Laboratory	Void Ratio	Total Porosity (%)	Moisture Content (%)	Bulk Density(1) (g/cm^3)	Specific Gravity	Total Organic Carbon (2) (%)	Permeability (cm/sec)
WCP-92-145	Sandy silt	PNL	NT	47	21.1	2.058	NT	ND	1.4×10^{-5}
WCP-93-121	Sandy silt	PNL	NT	49	21.1	2.020	NT	ND	2.6×10^{-6}
WCP-93-131	Sandy silt	PNL	NT	54.8	22.5	1.798	NT	ND	8.5×10^{-6}
WCP-93-146	Sandy silt	PNL	NT	44.4	15.2	1.994	NT	ND	4.3×10^{-6}
WCP-95-131	Silty sand	PNL	NT	51.6	24.4	1.986	NT	ND	1.4×10^{-5}
WCP-95-140	Clayey sand	PNL	NT	53	25.1	1.994	NT	ND	6.7×10^{-6}
WCP-96-121	Poorly graded sand	PNL	NT	36.6	12.8	2.137	NT	ND	1.3×10^{-5}
WCP-96-136	Silty sand	PNL	NT	47.9	19.2	1.998	NT	ND	4.3×10^{-6}
WCP-96-151	Silt	PNL	NT	64	37.2	1.795	NT	ND	1.4×10^{-6}
WCP-97-126	Silty sand	PNL	NT	57.3	28.5	1.870	NT	ND	2.3×10^{-6}
WCP-97-136	Silt	PNL	NT	60.2	30.2	1.824	NT	ND	2.0×10^{-7}
WCP-97-151	Silty sand	PNL	NT	51.5	22.7	1.971	NT	ND	5.9×10^{-6}

(1) Wet density results presented. Units have been converted to g/cm^3 for this table.
(2) Total Organic Carbon by the Walkley-Black Method.
(3) Walkley-Black results reported by Severn Trent Laboratories

-- = Laboratory was unable to run sample
% = percent
cm/sec = centimeters per second
ATL = ATL, Inc., Geotechnical Consultants
PNL = Phoenix National Laboratories, Inc.
NT = Not tested
ND = Not detected

Table 7-3
Detected Organic Compounds in Soils
Phase III Well Installation - September to December 1999
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/kg)

SAMPLE_ID	SAMPLE DATE	1,1-Dichloroethene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Methylene Chloride	Tetrachloroethene	Trichloroethene	Xylene (total)
Action Level - Minimum GPL		**0.81**	**NE**	**NE**	**NE**	**NE**	**NE**	**1.3**	**0.61**	**2,200**
Arizona SRL-Residential		**0.36**	**7,100**	**NE**	**770**	**2,100**	**77**	**53**	**27**	**2,800**
Arizona SRL-Non-residential		**0.8**	**27,000**	**NE**	**2,800**	**8,800**	**180**	**170**	**70**	**2,800**
SB-08-056	08/30/1999							0.044	0.060	
SB-08-071	08/30/1999								0.130	
SB-08-091	08/30/1999							0.110	0.140	
SB-08-106	08/30/1999							0.110	0.130	
SB-08-110	08/30/1999		0.140	0.098	0.087	0.130		0.100	0.130	
SB-08-121	08/30/1999		0.120					0.220	0.270	
SB-09-001	08/31/1999		0.110							
SB-09-006	08/31/1999		0.110							
SB-09-011	08/31/1999		0.094							
SB-09-061	08/31/1999							0.120	0.160	
SB-09-076	08/31/1999					0.160		0.066	0.100	
SB-09-106	08/31/1999					0.100		0.310	0.330	
SB-09-116	08/31/1999	0.046				0.110		0.300	0.260	
SB-09-116D	08/31/1999					0.099		0.260	0.210	
SB-09-121*	08/31/1999					0.140		0.160	0.150	
SB-10-021	09/01/1999								0.062	
SB-10-055	09/01/1999								0.100	
SB-10-096	09/01/1999								0.066	
SB-10-111	09/01/1999							0.200	0.190	
SB-10-121*	09/01/1999							0.360	0.480	
SB-11-001	09/02/1999			0.200	0.140			0.070		
SB-11-091RE	09/02/1999							0.093	0.099	
SB-11-106RE	09/02/1999							0.120	0.110	
SB-11-121DRE*	09/02/1999							0.150	0.130	
SB-11-121RE*	09/02/1999							0.130	0.110	
SB-12-061	09/03/1999							0.220	0.250	
SB-12-096	09/03/1999							0.130		
SB-12-121*	09/03/1999							0.340	0.160	
SB-12-121D*	09/03/1999							0.250	0.140	
SB-13-001	09/07/1999					0.160				
SB-13-006	09/07/1999					0.140				
SB-13-011	09/07/1999		0.110			0.150				
SB-13-021	09/07/1999		0.130			0.200				
SB-13-056	09/07/1999		0.130			0.150				
SB-13-061	09/07/1999					0.780		0.180	0.180	
SB-13-061D	09/07/1999		0.150					0.078	0.078	
SB-13-071	09/07/1999					0.210		0.064	0.070	

Table 7-3
Detected Organic Compounds in Soils
Phase III Well Installation - September to December 1999
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/kg)

SAMPLE_ID	SAMPLE DATE	1,1-Dichloroethene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Methylene Chloride	Tetrachloroethene	Trichloroethene	Xylene (total)
Action Level - Minimum GPL		**0.81**	**NE**	**NE**	**NE**	**NE**	**NE**	**1.3**	**0.61**	**2,200**
Arizona SRL-Residential		**0.36**	**7,100**	**NE**	**770**	**2,100**	**77**	**53**	**27**	**2,800**
Arizona SRL-Non-residential		**0.8**	**27,000**	**NE**	**2,800**	**8,800**	**180**	**170**	**70**	**2,800**
SB-14-001	09/08/1999							0.062		
SB-14-021	09/08/1999							0.072	0.073	
SB-14-041	09/08/1999							0.084	0.094	
SB-14-061	09/08/1999							0.180	0.250	
SB-14-096	09/08/1999							0.088	0.100	
SB-15-061	09/09/1999							0.150	0.150	
SB-15-071	09/09/1999					0.190				
SB-15-081	09/09/1999									
SB-15-096	09/09/1999			0.130	0.110	0.640		0.190	0.170	
SB-15-106	09/09/1999					0.140		0.240	0.170	
SB-16-006	09/13/1999		0.120							
SB-16-046	09/13/1999								0.130	
SB-16-061	09/13/1999								0.076	
SB-16-071	09/13/1999							0.140	0.190	
SB-16-091	09/13/1999					0.220				
SB-16-106	09/13/1999					0.500		0.160	0.170	
SB-16-121*	09/13/1999					0.270		0.310	0.330	
SB-17-001	09/15/1999					0.110		0.093		
SB-17-021	09/15/1999							0.069	0.074	
SB-17-041	09/15/1999								0.050	
SB-17-056	09/15/1999							0.096	0.120	
SB-17-071	09/15/1999							0.057	0.080	
SB-17-091	09/15/1999							0.150	0.190	
SB-17-111	09/15/1999						0.220			
SB-17-120*	09/15/1999						0.180	0.081	0.058	
WCP-40-016	09/27/1999					0.100				
WCP-40-086	09/27/1999					0.150				
WCP-40-121*	09/27/1999		0.100			0.120				
WCP-40-121D*	09/27/1999					0.180				
WCP-42-111D*	10/01/1999					0.140				0.084

Notes: mg/kg = milligrams per kilogram
GPL = Groundwater Protection Limit
SRL = Soil Remediation Level
NE = None established
D = Duplicate
RE = Replicate
DRE = Duplicate/Replicate
Blank field indicates analyte not detected above the method detection limit.
* Indicates sample collected from the saturated zone.

Table 7-4
Detected Organic Compounds in Soils
Phase IV and V Well Installation
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/kg)

Phase IV SAMPLE ID	SAMPLE DATE	Acetone	Bromo-methane	Chloromethane	m&p-Xylenes	Trichloro-ethene	Xylenes (total)
Action Level - Minimum GPL		**NE**	**NE**	**NE**	**NE**	**0.61**	**2,200**
Arizona SRL - Residential		**2,100**	**6.8**	**12**	**NE**	**27**	**2,800**
Arizona SRL - Non-residential		**8,800**	**23**	**26**	**NE**	**70**	**2,800**
WCP-MW-085-021	1/8/2001			0.065			
WCP-MW-085-086	1/8/2001	0.048		0.035			0.053
WCP-MW-090-016	1/17/2001			0.044			

Phase V SAMPLE ID	SAMPLE DATE	Acetone	Bromo-methane	Ethylbenzene	m&p-Xylenes	Trichloro-ethene	Xylenes (total)
Action Level - Minimum GPL		**NE**	**NE**	**120**	**NE**	**0.61**	**2,200**
Arizona SRL - Residential		**2,100**	**6.8**	**1,500**	**NE**	**27**	**2,800**
Arizona SRL - Non-residential		**8,800**	**23**	**2,700**	**NE**	**70**	**2,800**
WCP-MW-093-126*	07/24/01					0.180	
WCP-MW-093-126D*	07/24/01					0.200	
WCP-MW-097-016	07/02/01	0.360			0.085		0.088
WCP-MW-097-086	07/02/01			0.024	0.095		0.098
WCP-MW-097-116	07/02/01	0.380					

Notes: mg/kg = micrograms per kilogram
GPL = Groundwater Protection Limit
SRL = Arizona Soil Remediation Level
NE = None established.
Blank fields indicate analyte not detected above method detection limit.
WCP-MW-093-126D is a field duplicates of WCP-MW-093-126.
* Indicates sample collected from the saturated zone.

Table 7-5
Detected Organic Compounds in Soils
Phase VI Well Installation - November and December 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/kg)

SAMPLE ID	SAMPLE DATE	1,1,2-Trichloroethane	1,1-Dichloroethene	Bromomethane	Chlorobenzene	m/p-Xylenes	Tetrachloroethene	Trichloroethene
Action Level - Minimum GPL		**NE**	**0.81**	**NE**	**NE**	**NE**	**1.3**	**0.61**
Arizona SRL - Residential		**6.5**	**0.36**	**7**	**65**	**NE**	**53**	**27**
Arizona SRL - Non-residential		**15**	**0.8**	**23**	**220**	**NE**	**170**	**70**
WCP-MW-100-056	11/20/01						0.077	0.087
WCP-MW-100-071	11/20/01						0.190	0.210
WCP-MW-100-091	11/20/01						0.110	0.120
WCP-MW-100-116	11/20/01						0.170	0.160
WCP-MW-100-121	11/20/01						0.190	0.160
WCP-MW-100-121D	11/20/01						0.250	0.200
WCP-MW-100-126	11/20/01						0.170	
WCP-MW-200-026	11/16/01	0.030						
WCP-MW-200-116	11/16/01		0.057		0.022	0.050		
WCP-MW-200-121	11/16/01		0.130		0.029	0.066		
WCP-MW-200-126	11/16/01		0.140		0.028	0.063		

Notes: mg/kg = micrograms per kilogram
GPL = Groundwater Protection Limit
SRL = Arizona Soil Remediation Level
Blank fields indicate analyte not detected above method detection limit.
WCP-MW-100-121D is a field duplicate of WCP-MW-100-121.
* Indicates sample collected from the saturated zone.

Table 7-6
Detected Organic Compounds in HydropunchÒ Samples
Phase III Well Installation
WCP East Grand Avenue WQARF Site Remedial Investigation
(µg/L)

BORING	SAMPLE ID	SAMPLE DATE	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Acetone	Benzene	Bromodichloromethane	Carbon Tetrachloride	Chloroform	cis-1,2-Dichloroethene	m/p-Xylene	Methylene Chloride	Tetrachloroethene	Trichloroethene	Xylene (total)
Action Level - AWQS/MCL			**NE**	**7**	**5**	**NE**	**5**	**100**	**5**	**100**	**70**	**NE**	**5**	**5**	**5**	**10,000**
SB-8	HP-08-123	08/30/1999	7	**300**					3	2	2		1	**2500**	**3000**	
SB-9	HP-09-123	08/31/1999	5	**140**					4	1				**1800**	**1600**	
SB-10	HP-10-123	09/01/1999	10	**550**			0.6		**7**	4	4		1	**2800**	**3800**	
SB-11	HP-11-123	09/02/1999	6	**81**		8			2	2	2			**760**	**760**	
SB-12	HP-12-124	09/03/1999	4						1	1	2			**460**	**340**	
SB-13	HP-13-129	09/07/1999		**14**						0.5				**49**	**42**	
SB-14	HP-14-129	09/08/1999		6										**22**	**16**	
SB-15	HP-15-128	09/09/1999	1	**49**					0.8	0.7			0.7	**170**	**94**	
SB-15	HP-15-142	09/09/1999												1	0.8	
SB-16	HP-16-122	09/13/1999	8	**350**			0.5		**5**	2	4		0.7	**1400**	**1700**	
SB-16	HP-16-141	09/13/1999		1	2					1				4	5	
SB-17	HP-17-122	9/15/1999	9	**280**			0.5		**5**	3	4			**2500**	**2400**	
SB-17	HP-17-142	09/16/1999								0.7				1	2	
SB-17	HP-17-142D	09/16/1999								0.8				1	2	
WCP-40	HP-WCP-40-121	09/27/1999						0.2		0.8						
WCP-41	HP-WCP-41-121	09/29/1999		3										3	4	
WCP-42	HP-WCP-42-121	10/01/1999								0.6						
WCP-45	HP-WCP-45-130	10/06/1999		1												
WCP-44	HP-WCP-44-125	12/01/1999					**1100**					5			0.8	6

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = Safe Drinking Water Maximum Contaminant Level
NE = None established
D = Duplicate Sample
Blank field indicates analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-7
Detected Organic Compounds in Hydropunch^{Ò} Samples
Phase IV Well Installation - Jan to Feb 2001
WCP East Grand Avenue WQARF Site
(mg/L)

BORING	SAMPLE ID	SAMPLE DATE	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Acetone	Benzene	Bromodichloromethane	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	m&p-Xylenes	Tetrachloroethene	Trichloroethene	Xylenes (total)
Action Level (AWQS/MCL)			**5**	**NE**	**7**	**5**	**NE**	**5**	**100**	**5**	**100**	**70**	**NE**	**5**	**5**	**10,000**
WCP-47	WCP-HP-047-126	1/15/2001					2									
WCP-83	WCP-HP-083-121	1/22/2001									3				2	
WCP-84	WCP-HP-084-126	1/24/2001			0.4						0.5				2	
WCP-84	WCP-HP-184-126	1/24/2001			0.4						0.5				2	
WCP-85	WCP-HP-85-121	1/8/2001										0.4				
WCP-86	WCP-HP-086-126	1/10/2001									1			1	0.9	
WCP-87	WCP-HP-087-126	1/26/2001						**5**					0.5	0.5		0.6
WCP-87	WCP-HP-087-152	1/29/2001		2	**130**					1		0.6		**200**	**160**	
WCP-88	WCP-HP-088-131	1/30/2001						2			0.4			0.3	3	
WCP-89	WCP-HP-089-131	2/1/2001	0.4			0.4	9		27		1					
WCP-90	WCP-HP-090-131	1/18/2001					4		1		4				1	

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = Safe Drinking Water Maximum Contaminant Level
NE = None established
Blank field indicates analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-8
Detected Organic Compounds in Hydropunch® Samples
Phase V Well Installation - July 2001
WCP East Grand Avenue Remedial Investigation
(mg/L)

BORING	SAMPLE ID	SAMPLE DATE	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Acetone	Bromodichloromethane	Carbon tetrachloride	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Dibromochloromethane	Methylene chloride	Tetrachloroethene	Trichloroethene
Action Level (AWQS/MCL)			**NE**	**7**	**5**	**NE**	**100**	**5**	**100**	**NE**	**70**	**100**	**5**	**5**	**5**
WCP-92	WCP-HP-092-121	07/16/01		2	2	4				0.7				0.7	**10**
WCP-93	WCP-HP-093-131	07/24/01	3	**150**				1	2	4	1		1	**420**	**1500**
WCP-96	WCP-HP-096-121	07/20/01								2				4	
WCP-97	WCP-HP-097-126	07/02/01												1	
WCP-98	WCP-HP-098-121	07/10/01								0.8					
WCP-94	WCP-HP-94-126	07/18/01					0.7		2	0.8					2
WCP-95	WCP-HP-95-111	07/05/01					10		21			1	0.5		

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = Safe Drinking Water Maximum Contaminant Level
NE = None established.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.
Results are unvalidated.

Table 7-9
Detected Organic Compounds in Hydropunch® Samples
Phase VI Well Installation - Nov and Dec 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

BORING	SAMPLE ID	SAMPLE DATE	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Carbon tetra-chlorid	Chloroform	cis-1,2-Dichloroethe	Tetrachloroethene	Trichloroethene
Action Level (AWQS/MCL)			**NE**	**7**	**5**	**5**	**100**	**70**	**5**	**5**
WCP-100	WCP-HP-100-153	11/20/01		1	0.6		0.8		3	4
WCP-200	WCP-HP-200-153	11/19/01	1	**76**	1	0.9	1	0.5	**370**	**410**

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = Safe Drinking Water Maximum Contaminant Level
NE = None established.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-10
Detected Organic Compounds in Groundwater
Round 1- December 1999
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	MWB-4	MWB-5	MWB-6	WCP-15	WCP-115	WCP-16	WCP-17	WCP-28	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-45	WCP-145	WCP-46
1,1-Dichloroethane	**NE**				5	5			2		6							0.5	
1,1-Dichloroethene	**7**				**89**	**93**	**32**	**29**	**180**	**36**	**150**		1	0.9			**26**	**28**	1
Benzene	**5**						0.7						2			**1900**			
Carbon Tetrachloride	**5**				1	1		2	1		2								
Chloroform	**100**	1	0.6		2	2	0.7		1	0.9	1	0.7	0.6	0.6	0.5				
cis-1,2-Dichloroethene	**70**				3	4			0.6		2								
m/p-Xylene	**NE**															11			
Methylene Chloride	**5**				2	2			0.7		0.8								
Methyl-tert-butyl ether	**NE**			16															
Tetrachloroethene	**5**				**690**	**670**	**160**	**22**	**920**	**140**	**760**		1	0.9		0.7	**76**	**76**	1
Toluene	**1,000**															1			
Trichloroethene	**5**	1	**8**		**520**	**540**	**210**	**93**	**1100**	**200**	**400**		**10**		0.9	3	**33**	**35**	0.9
Xylene (total)	**10,000**															12			

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-115 and WCP-145 are duplicate samples of WCP-15 and WCP-45, respectively.
All samples collected using the low-flow purge method and the bailer sample collection method.
Blank fields indicate the analyte was not detected above method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-11
Detected Organic Compounds in Groundwater
Round 2 - January and February 2000
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AQWS/MCL	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-B15	WCP-16	WCP-B16	WCP-17	WCP-B17	WCP-28	WCP-B28	WCP-29	WCP-129	WCP-B29	WCP-30	WCP-130	WCP-B30	WCP-40	WCP-41	WCP-141	WCP-42	WCP-43	WCP-44	WCP-45	WCP-46
1,1-Dichloroethane	**NE**					0.4	4		0.7				2				3	3	7							0.8	
1,1-Dichloroethene	**7**					**14**	**60**	**33**	**57**	**34**	**38**	**8**	**150**	4	4	**38**	**69**	**54**	**180**							**31**	
Benzene	**5**																								**2600**		
Bromodichloromethane	**100**		0.5									0.2			0.3												
Carbon Tetrachloride	**5**						1		0.5	2	2		1				1	1	2								
Chloroform	**100**		2			0.6	2	0.8	0.9			1	1	0.9	0.9	0.8	0.8	0.9		0.9	0.9	0.8	0.9	1			
cis-1,2-Dichloroethene	**70**						2						0.7				1	1	3								
m/p-Xylene	**NE**																								9		
Methylene Chloride	**5**						2						0.8														
Methyl-tert-butyl ether	**NE**				21																						
Tetrachloroethene	**5**					**50**	**440**	**73**	**410**	**16**	**25**	**56**	**710**	**12**	**12**	**130**	**320**	**300**	**790**						1	**63**	0.9
Toluene	**1,000**																								0.6		
Trichloroethene	**5**		2	**11**		**38**	**320**	**98**	**300**	**66**	**75**	**77**	**940**	**19**	**18**	**230**	**200**	**200**	**490**		**10**	**10**		2	4	**35**	0.5
Xylene (total)	**10,000**																								10		

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
Sample identifications with a "B", such as WCP-B15, indicate the sample was collected using the bailer sample collection method. All other samples were collected using the pump discharge sample collection method. The low-flow purge method was used for all Round 2 samples.
WCP-129, WCP-130, and WCP-141 are duplicate samples of WCP-29, WCP-30, and WCP-41, respectively.
Blank fields indicate the analyte was not detected above method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-12
Detected Organic Compounds in Groundwater
Round 3 - March 2000
WCP East Grand Avenue WQARF Site
Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	ENT-MW-B02	MTP-1	MWB-4	MWB-B04	MWB-5	MWB-B05	MWB-6	MWB-B06	WCP-15	WCP-B15	WCP-I15	WCP-16	WCP-B16	WCP-I16	WCP-17	WCP-B17	WCP-28	WCP-128	WCP-B28	WCP-29	WCP-B29	WCP-30	WCP-B30	WCP-40	WCP-B40	WCP-41	WCP-141	WCP-B41	WCP-42	WCP-B42	WCP-43	WCP-B43	WCP-44	WCP-B44	WCP-45	WCP-B45	WCP-46	WCP-B46
1,1-Dichloroethane	**NE**																						0.5	2	5												0.6			
1,1-Dichloroethene	**7**										**9**	**11**	**12**	**21**	**25**	**28**	**29**	**32**	0.7	0.6	**15**	2	**46**	**54**	**85**					0.7		2					**32**	**19**	1	2
1,2-Dichloroethane	**5**		**380**												1				2	2	2						1													
Benzene	**5**	**6700**	**7000**																																**2100**	**2800**				
Bromodichloro-methane	**100**					0.6																											0.5							
Carbon Tetrachloride	**5**																1	2						0.8	2															
Chloroform	**100**				2	2		0.5	0.6	0.6	0.6	0.6	0.7	0.9	0.9	0.9			0.9	0.9	1	0.9	0.9	0.7	0.9	0.8	0.6	0.8	0.9	0.9	0.7	0.6	2	2						
cis-1,2-Dichloroethene	**70**																							0.7	2															
Ethylbenzene	**700**	**1200**	**1400**																																					
m/p-Xylene	**NE**	5000	6100																																8	14				
Methylene Chloride	**5**																								0.7															
Methyl-tert-butyl ether	**NE**								36	32																														
o-Xylene	**10,000**	1200	1600																																					
Tetrachloroethene	**5**										**27**	**48**	**46**	**73**	**100**	**120**	**16**	**22**	2	2	**80**	**6**	**170**	**180**	**470**							3			1	1	**59**	**51**	1	3
Toluene	**1,000**	**5200**	**6100**																																					
Trichloroethene	**5**				2	2	**10**	**11**			**17**	**24**	**27**	**88**	**130**	**160**	**84**	**100**	1	1	**110**	**10**	**280**	**110**	**250**			**11**	**11**	**12**		0.8	4	5	3	4	**33**	**24**	0.7	1
Xylene (total)	**10,000**	6200	7600																																9	14				

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
Blank fields indicate analyte was not detected above the method detection limit.
Sample identifications with a "B", such as WCP-B15, indicate the sample was collected using the bailer sample collection method. All other samples were collected using the pump discharge sample collection method. The low-flow purge method was used for all Round 3 samples.
WCP-128 and WCP-141 are duplicate samples of WCP-28 and WCP-41, respectively.
WCP-I15 and WCP-I16 are duplicate samples of WCP-B15 and WCP-B16, respectively.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-13
Detected Organic Compounds in Groundwater
Round 4 - June 2000
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-17	WCP-28	WCP-29	WCP-30	WCP-130	WCP-40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-45	WCP-145	WCP-46
1,1-Dichloroethane	**NE**						0.5	1		0.4		2	2						0.6	0.6	
1,1-Dichloroethene	**7**						**13**	**110**	**30**	**21**	2	**78**	**84**						**26**	**25**	1
1,2-Dichloroethane	**NE**						0.6	0.6				0.6	0.6	1							
Acetone	**NE**	960						5													
Benzene	**5**	**5100**																**2000**			
Carbon Disulfide	**NE**								2												
Carbon Tetrachloride	**5**							0.8	2			0.9	0.9								
Chloroform	**100**						0.6	1	0.4	1	1	0.8	0.8						0.4	0.4	0.5
cis-1,2-Dichloroethene	**70**							0.6				1	1						0.3		
Ethylbenzene	**700**	**980**																			
m/p-Xylene	**NE**	2800																14			
o-Xylene	**10,000**	1000																			
Tetrachloroethene	**5**						**64**	**510**	**15**	**93**	**6**	**330**	**360**						**47**	**47**	1
Toluene	**1,000**	**4100**							5												
Trichloroethene	**5**			2	**14**		**37**	**780**	**93**	**140**	10	**180**	**200**		**11**		2		**29**	**27**	0.7
Xylene (total)	**10,000**	3900																15			

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-130 and WCP-145 are duplicate samples of WCP-30 and WCP-45, respectively.
All samples collected using the low-flow purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-14
Detected Organic Compounds in Groundwater
Round 5 - September 2000
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-116	WCP-17	WCP-28	WCP-29	WCP-30	WCP40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-45	WCP-145	WCP-46	WCP-48
1,1-Dichloroethane	**NE**							2	2				2									
1,1-Dichloroethene	**7**	2					**11**	**140**	**140**	**44**	1	2	**43**		2				**18**	**16**	0.5	0.9
Benzene	**5**	**3600**																**1400**				
Carbon Disulfide	**NE**	0.6																3				
Carbon Tetrachloride	**5**							1	1	3			0.7									
Chloroform	**100**			2	0.4	0.4	0.7	1	2	0.7	0.8	0.9	0.8	0.7	0.7	1	1				0.6	
cis-1,2-Dichloroethene	**70**							0.7	0.7				0.7									
Ethylbenzene	**700**	**820**																				
m/p-Xylene	**NE**	1700																8				
o-Xylene	**10,000**	800																				
Tetrachloroethene	**5**						**37**	**660**	**630**	**32**	4	**6**	**160**		2			0.7	29	**26**		
Toluene	**1,000**	**2300**																				
Trichloroethene	**5**	2	0.3	3	**13**		**23**	**1100**	**1000**	**180**	**5**	**11**	**88**		**9**		2	**3**	**17**	**16**		
Xylene (total)	**10,000**	2500																8				

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-116 and WCP-145 are duplicate samples of WCP-16 and WCP-45, respectively.
All samples collected using the low-flow purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-15
Detected Organic Compounds in Groundwater
Round 6 - December 2000
VW&R Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-115	WCP-16	WCP-116	WCP-17	WCP-28	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-45	WCP-46	WCP-48
1,1-Dichloroethane	**NE**						0.5	0.4			0.6			0.9						0.4		
1,1-Dichloroethene	**7**	2					**12**	**12**	**31**	**32**	**43**	1	3	**24**		2			0.8	**18**		0.6
1,2-Dichloroethane	**NE**								1	2												
Benzene	**5**	**3900**																	**1000**			
Bromodichloromethane	**100**												0.3									
Carbon Disulfide	**NE**	1																	6			
Carbon Tetrachloride	**5**									1	3			0.4								
Chloroform	**100**			1	0.3		0.6	0.6	1	1	0.9	0.8	1	0.6	0.6	0.7	0.8	0.9	1		0.5	
Chloromethane	**NE**	11																				
cis-1,2-Dichloroethene	**70**									3				0.4								
Ethylbenzene	**700**	**930**																				
m/p-Xylene	**NE**	1500																	5			
o-Xylene	**10,000**	890																				
Tetrachloroethene	**5**	2					**47**	**61**	**75**	**71**	**45**	4	**7**	**130**		1			**2**	**37**		
Toluene	**1,000**	2200																	0.5			
Trichloroethene	**5**			**3**	**15**		**37**	**32**	**110**	**100**	**230**	**5**	**12**	**71**		**8**		2	**19**	**20**		
Xylene (total)	**10,000**	2400																	6			

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-115 and WCP-116 are duplicate samples of WCP-15 and WCP-16, respectively.
All samples collected using the low-flow purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-16
Detected Organic Compounds in Groundwater
Round 7 - March 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-17	WCP-28	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-144	WCP-45	WCP-46	WCP-47	WCP-48	WCP-83	WCP-84	WCP-184	WCP-85	WCP-185	WCP-86	WCP-88	WCP-89	WCP-90	WCP-S87	WCP-D87
1,1-Dichloroethane	**NE**											0.9							0.4													2	2
1,1-Dichloroethene	**7**							21	29	1	2	28							17	0.3		0.7		0.6	0.7			0.4				120	130
1,2-Dichloroethane	**5**							1		2		0.7	2				12												0.4				
2-Butanone (MEK)	**NE**													3												3							
Acetone	**NE**																												8				
Benzene	**5**	4000		0.3												1	250	260											1				
Bromodichloromethane	**100**															0.4														2	0.7		
Carbon tetrachloride	**5**								3			0.3																				2	1
Chloroform	**100**			0.5				0.9	0.5	0.9	0.9	0.7	0.7	1	0.9	1			0.4	0.7	0.3		1	1	1	0.9	0.9	0.9	1		3	0.4	
cis-1,2-Dichloroethene	**70**											0.5		0.5									0.7			0.5	0.5		1			0.6	0.6
Ethylbenzene	**700**	850															3	3															
m&p-Xylenes	**NE**	900														0.5	2	2															
Methyl-tert-butyl-ether	**NE**			3		2									4	3				18													
o-Xylene	**10,000**	800															3	3															
Tetrachloroethene	**5**	1	0.8				30	50	22	2	6	120					1	0.9	35	0.4								0.4	0.9			160	180
Toluene	**1,000**	2100															9	9															
Trichloroethene	**5**	2	0.6	0.3	7		19	68	69	3	10	69		10		2	1	1	19	0.4			13	3	3	8	7	1	70	1	0.8	140	150
Xylenes (total)	**10,000**	1800														0.5	6	6															

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-144, WCP-184, and WCP-185 are duplicate samples of WCP-44, WCP-84, and WCP-85, respectively.
WCP-S87 collected at shallow depth from WCP-87 (pump depth at 124.3 ft bgs).
WCP-D87 was collected at deep depth from WCP-87 (pump depth at 150 ft bgs).
All samples collected using the low-flow purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-17
Detected Organic Compounds in Groundwater
Round 8 - April and May 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	MGL-1	MGL-2	MGL-3	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-17	WCP-28	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-144	WCP-45	WCP-46	WCP-47	WCP-48	WCP-83	WCP-84	WCP-85	WCP-185	WCP-86	WCP-87	WCP-88	WCP-188	WCP-89	WCP-90
1,1-Dichloroethane	**NE**									0.8	0.5				1							0.4									2				
1,1-Dichloroethene	**7**			0.7						**15**	**31**	**42**	3	3	**36**							**14**	0.5		0.6		0.6				**150**				
1,2-Dichloroethane	**5**		**24**	**7**	2					0.9	1		1		0.7	2																			
Acetone	**NE**													3																					
Benzene	**5**	**4800**	**33**											0.5						**310**	**290**											0.5	0.6		
Bromodichloromethane	**100**													0.3													0.2							2	0.7
Carbon tetrachloride	**5**											2			0.5																1				
Chloroform	**100**		0.8	0.8						0.8	1	0.4	0.9	0.9	0.7	0.6	0.8	0.9	1			0.5	0.7	0.4		1	0.9	0.7	0.7	0.8		0.9	0.9		3
cis-1,2-Dichloroethene	**70**														0.6													0.4	0.4		0.6	1	1		
Ethylbenzene	**700**	**1200**												0.3						8	9														
m&p-Xylenes	**NE**	1200																		2	2														
Methyl-tert-butyl-ether	**NE**						0.8							3																					
o-Xylene	**10,000**	1300																		11	12														
Tetrachloroethene	**5**			0.7						**55**	**89**	**16**	**7**	**8**	**130**					0.9	0.9	**20**	0.8				0.3			0.3	**190**	0.8	1		
Toluene	**1,000**	3400																		11	12														
Trichloroethene	**5**		**8**	4	4	0.3		**15**		**48**	**180**	**110**	**9**	**15**	**83**		**10**		3	2	2	**13**	0.5			**12**	2	**6**	**6**	1	**160**	**51**	**51**	1	0.5
Xylenes (total)	**10,000**	2700																		13	14														

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-144, WCP-185, and WCP-188 are duplicate samples of WCP-44, WCP-85, and WCP-88, respectively
All samples collected using the low-flow purge method and the pump discharge sample collection method
Blank fields indicate analyte not detected above the method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-18
Detected Organic Compounds in Groundwater
Round 9 - June 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AQWS/MCL	ENT-MW-2	MGL-1	MGL-2	MGL-3	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-17	WCP-28	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-44	WCP-45	WCP-145	WCP-46	WCP-47	WCP-48	WCP-83	WCP-183	WCP-84	WCP-85	WCP-86	WCP-87	WCP-187	WCP-88	WCP-89	WCP-90
1,1,2-Trichloroethane	5																																	0.4	
1,1-Dichloroethane	NE									0.5	0.6	1			2																2	2			
1,1-Dichloroethene	7	2			0.9					16	43	77	3	3	72		3				13	13	0.4		0.7			0.8		0.5	210	140			
1,2-Dichloroethane	5		26	19	1					0.6	1		1		0.7	2																			
Acetone	NE		63		2																2		2										28		
Benzene	5	3700	59	85																200													3		
Bromodichloromethane	100																																	28	0.8
Carbon disulfide	NE	5																																	
Carbon tetrachloride	5											3			0.7																1	1			
Chloroform	100		0.7	0.9			0.4	0.4		0.5	0.9	1	0.9	0.9	0.8	0.7	0.9	1	1				0.8	0.4		1	1	1	0.6	1			0.9	1	4
cis-1,2-Dichloroethene	70							0.4							0.9											0.6	0.6				0.6	0.6	0.8		
Dibromochloromethane	100							0.4																			0.4								
Ethylbenzene	700	860																		3															
m&p-Xylenes	NE	730																		1															
Methylene chloride	5																																	0.6	
Methyl-tert-butyl-ether	NE															0.3																			
o-Xylene	10,000	770		2																															
Tetrachloroethene	5	1		0.6						60	130	76	7	8	230		2			0.6	22	22	0.5					0.5		0.5	330	180	0.9		
Toluene	1,000	1800								0.7										0.4												0.6			
Trichloroethene	5	2	8	7	6		0.6	16		35	210	310	10	13	150		10		3	1	12	12	0.4			12	12	4	4	1	250	150	36		0.7
Xylenes (total)	10,000	1600		2																1															

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-145, WCP-183, and WCP-187 are duplicates of WCP-45, WCP-83, and WCP-87, respectively.
All samples collected using the low-flow purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-19
Detected Organic Compounds in Groundwater
Round 10 - June 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	ENT-MW-2	MGL-1	MGL-2	MGL-3	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-17	WCP-28	WCP-29	WCP-129	WCP-30	WCP-40	WCP-41	WCP-141	WCP-42	WCP-43	WCP-44	WCP-45	WCP-46	WCP-47	WCP-48	WCP-83	WCP-84	WCP-85	WCP-86	WCP-87	WCP-88	WCP-188	WCP-89	WCP-90
1,1-Dichloroethane	NE										0.6				1							0.3								2				
1,1-Dichloroethene	7		0.6		1				7	17	59	2	2	2	27		1	1				13			0.7		0.5			170				
1,2-Dichloroethane	5		17	25	1										1	2																		
Acetone	NE				3																						3							
Benzene	5	3500	59	170	0.5																200										1	1		
Bromodichloromethane	100																										0.3						31	0.7
Carbon disulfide	NE	5																																
Carbon tetrachloride	5										2				0.4															1				
Chloroform	100		0.6	0.8		0.4			0.5	0.9	0.7	0.8	1	1	0.9	0.7	1	1	1	1		0.4	0.8	0.4		1	0.9	0.5	1	0.4	0.8	0.7	1	3
Chloromethane	NE		0.9	1																	1													
cis-1,2-Dichloroethene	70														0.5		0.4	0.4								0.5				0.8	0.7	0.7		
Ethylbenzene	700	870																			3													
m&p-Xylenes	NE	680																			4													
Methylene chloride	5																																0.6	
o-Xylene	10,000	890	4	4																	0.6													
Tetrachloroethene	5	1	0.3	0.6					26	44	34	6	4	4	91		0.7	0.7			0.7	28					0.3		0.6	280	0.6	0.5		
Toluene	1,000	1500																			0.9													
Trichloroethene	5	2	5	9	8	0.7	16		13	55	250	8	7	7	42		9	9		2	0.8	15				13	3	5	1	230	38	35	0.4	0.8
Xylenes (total)	10,000	1600	4	4																	5													

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-129, WCP-141, and WCP-188 are duplicate samples of WCP-29, WCP-41, and WCP-88, respectively.
All samples collected using the three casing volume purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above method detection limit.
Highlighted result indicates exceedance of the AWQS/MCL.

Table 7-20
Detected Organic Compounds in Groundwater
Round 11 - August 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/ MCL	ENT-MW-2	MGL-1	MGL-2	MGL-3	MTP-1	MWB-4	MWB-5	MWB-6	WCP-15	WCP-16	WCP-17	WCP-28	WCP-128	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-143	WCP-44	WCP-45	WCP-46	WCP-47	WCP-48	WCP-83	WCP-84	WCP-85	WCP-86	WCP-87	WCP-88	WCP-89	WCP-90	WCP-92	WCP-93	WCP-94	WCP-194	WCP-95	WCP-195	WCP-96	WCP-97	WCP-98
1,1,2-Trichloroethane	**5**																																0.5										
Dichloroethane	**NE**										0.7	0.6				2															1					2							
Dichloroethene	**7**				1					**12**	**50**	**50**	3	3	2	**57**		5					**12**			0.8		0.6			**51**				1	**120**							
1,2-Dichloroethane	**5**			**8**	1					0.7	1		1			0.6	1																		1								
Acetone	**NE**	330																														37											
Benzene	**5**	**3100**	**53**																			**170**									1	5											
Bromodichloromethane	**100**																																39	0.8			0.6	0.6	9	10			
Bromomethane	**NE**																																0.6										
Carbon tetrachloride	**5**											2				0.7																				0.6							
Chloroform	**100**		0.6	0.6						0.6	1	0.8	0.8	0.8	0.9	0.8	0.6	0.7	1	1	1			0.8			2	0.9		1		0.9	1	3		1	2	2	18	18			
Chloromethane	**NE**																																								0.6		
cis-1,2-Dichloroethene	**70**															1											0.8					0.6				1							
Dibromochloromethane	**100**																																						1	1			
Ethylbenzene	**700**	630																				0.7																					
m&p-Xylenes	**NE**	430																																									
Methylene chloride	**5**																																0.7			1							
o-Xylene	**10,000**	540	1																																								
Tetrachloroethene	**5**			0.5						**33**	**150**	**48**	**11**	**11**	**5**	**190**		3				0.6	**19**							0.6	**62**	0.7				**170**					1		
Toluene	**1,000**	**1400**																																									
Trichloroethene	**5**		**6**	**5**	**7**	0.5		**14**		**22**	**270**	**230**	**18**	**18**	**9**	**120**		**8**		2	2	1	**11**				**13**	3	3	1	**54**	**30**		0.8	**5**	**770**	**12**	**12**					
Xylenes (total)	**10,000**	1000	1																																								

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-128, WCP-143, WCP-194, and WCP-195 are field duplicates of WCP-28, WCP-43, WCP-94, and WCP-95, respectively
Blank fields indicate analyte not detected above the method detection limit.
All samples collected using the low-flow purge method and the pump discharge sample collection method.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-21
Detected Organic Compounds in Groundwater
Round 12 - September 2001
WCP East Grand Avenue WQARF Site Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	WCP-16	WCP-116	PDB-16	WCP-17	PDB-17	WCP-28	PDB-28D	PDB-28S	WCP-29	WCP-129	PDB-29D	PDB-29S	WCP-85	PDB-85D	PDB-85S	WCP-87	PDB-87D	PDB-87S	WCP-88	PDB-88D	PDB-88S	WCP-92	WCP-93	PDB-93D	PDB-93S	WCP-94	PDB-94D	PDB-94S	WCP-95	WCP-96	WCP-97	WCP-98
1,1-Dichloroethane	**NE**			0.94	0.5	0.57											0.6	0.6						2	2.6	1.2							
1,1-Dichloroethene	**7**	**35**	**39**	**73**	**32**	**57**	2		**25**	3	3		**11**				**37**	**42**	**29**				0.9	**130**	**140**	**84**	0.4						
1,2-Dichloroethane	**5**	1	1	0.96			1	1.4	1												1.1	1.1	0.6										
1,1,2-Trichlorotrifluoroethane	**NE**			7.1					4				2																				
1,2,4-Trimethylbenzene	**NE**																				2	1											
1,3,5-Trimethylbenzene	**NE**																					3											
Acetone	**NE**			32		26	2	25	28		2	24	29		32	32		45	57		22	25			43	45		52	46				
Benzene	**5**																2	1.5	3	4	**28**	**28**											
Bromodichloromethane	**100**																										0.8	3.7	1.3	13			
Carbon tetrachloride	**5**			0.55	2	2.7																		0.8	1.2	0.63							
Chloroform	**100**	0.9	0.9		0.8		0.8			0.9	0.9	1.1								0.8	1.8	1.8		2	1.7		3	12	4.4	27			
cis-1,2-Dichloroethene	**70**																			0.8				1	0.98								
Dibromochloromethane	**100**																													1			
m,p-Xylenes	**10,000**																				2.9	3.3											
Methylene chloride	**5**	0.6	1				0.9			0.8	0.8													2	1.1		1			0.5			
o-Xylene	**10,000**																				3	7											
Tetrachloroethene	**5**	**130**	**110**	**300**	**36**	**58**	**7**		**77**	**8**	**7**		**34**				**49**	**86**	**63**	0.5				**230**	**370**	**150**					0.9	0.3	
Trichloroethene	**5**	**180**	**160**	**420**	**120**	**190**	**10**	1.1	**74**	**12**	**12**	1.1	**46**	2	2.4	1.1	**39**	**50**	**37**	**33**	**14**	**14**	4	**800**	**1100**	**500**	**11**	**6.3**	**11**		0.4	0.7	0.3

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
PDB = Samples collected using passive diffusion samplers. "S" indicates sample collected at shallow depth and "D" indicates sample collected at a deeper depth.
All non-PDB samples collected using the low flow purge method and the pump discharge sample collection method.
WCP-116 and WCP-129 are field duplicates of WCP-16 and WCP-29, respectively.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.
PDB analytical results did not undergo third party validation.

Table 7-22
Detected Organic Compounds in Groundwater
Round 13 - October and November 2001
WCP East Grand Avenue WQARF Site
Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/ MCL	MGL-1	MGL-2	MGL-3	MTP-1	MTP-2	MWB-4	MWB-5	MWB-6	MWB-14	WCP-16	WCP-17	WCP-28	WCP-128	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-45	WCP-46	WCP-47	WCP-48	WCP-148	WCP-83	WCP-84	WCP-85	WCP-86	WCP-87	WCP-88	WCP-89	WCP-90	WCP-190	WCP-92	WCP-93	WCP-193	WCP-94	WCP-95	WCP-96	WCP-97	WCP-98
1,1-Dichloroethane	**NE**										0.4	0.5				0.9					0.4										2						2	2					
1,1-Dichloroethene	**7**			0.4							**36**	**28**	2	2	3	**29**		2			**19**			0.7	0.9		0.6			**31**					0.9	**110**	**120**	0.4				
1,2-Dichloroethane	**5**	**51**	3								0.8		2	2		0.8	0.7																						0.5			
Acetone	**NE**								3																																	3
Benzene	**5**	**180**	**5**				2		0.6																					2	1											
Bromodichloromethane	**100**														0.4					0.5												22	0.8	0.9				0.4	10			
Carbon tetrachloride	**5**																																			0.6	0.6					
Chloroform	**100**	0.8	0.4					0.6			0.7	0.7	0.8	0.8	1	0.7	0.6	1	1	1	0.4	0.9				2	0.9		1	0.4	0.8	0.9	3	3		2	1	1	21			
cis-1,2-Dichloroethene	**70**															0.4										0.8				3	1					2	0.9					
Dibromochloromethane	**NE**																																						0.7			
Ethylbenzene	**700**						3																																			
m&p-Xylenes	**NE**						0.5		0.5																																	
Methylene chloride	**5**																															0.6				1	0.8					
Methyl-tert-butyl-ether (MTBE)	**NE**								0.4																																	
o-Xylene	**NE**	6																																								
Tetrachloroethene	**5**	0.5			0.4						**180**	**39**	**6**	**6**	**6**	**130**		1			**39**						0.3		0.7	**44**	0.6					**290**	**290**			1		
Toluene	**1,000**								2																																	
Trichloroethene	**5**	**9**	2	4	0.5			**11**			**240**	**230**	**9**	**9**	**10**	**64**		**11**		2	**19**					**14**	3	0.5	1	**33**	**48**		0.8	0.9	4	**810**	**840**	**13**		0.4	0.4	
Xylenes (total)	**10,000**	6					0.6		0.6																																	

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
WCP-128, WCP-148, WCP-190, and WCP-193 are field duplicates for WCP-28, WCP-48, WCP-90, and WCP-93, respectively.
All samples collected using the three casing volume purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-23
Detected Organic Compounds in Groundwater
Round 14 - December 2001
VW&R Remedial Investigation

ANALYTE	ACTION LEVEL AWQS/MCL	MTP-1	MTP-2	WCP-99	WCP-100	WCP-202	WCP-204
1,1-Dichloroethene	**7**				2		
1,2-Dichloroethane	**5**				0.6		
Acetone	**NE**		5				
Benzene	**5**				0.5	**6000**	
Bromoform	**NE**	1	2		0.7		
Chloroform	**100**						
Dibromochloromethane	**NE**		0.5				
Tetrachloroethene	**5**			0.3	**6**		0.3
Trichloroethene	**5**			0.5	**7**		

Notes: µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established.
All samples collected using the three casing volume purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-24
Detected Organic Compounds in Groundwater
Round 15 - January 2002
WCP East Grand Avenue WQARF Site
Remedial Investigation
(mg/L)

ANALYTE	ACTION LEVEL AWQS/MCL	MTP-1	MTP-2	MWB-6	MWB-14	MWB-14D	WCP-28	WCP-29	WCP-30	WCP-40	WCP-41	WCP-42	WCP-43	WCP-45	WCP-46	WCP-47	WCP-48	WCP-83	WCP-84	WCP-85	WCP-86	WCP-87	WCP-88	WCP-89	WCP-90	WCP-90D	WCP-92	WCP-93	WCP-94	WCP-94D	WCP-95	WCP-96	WCP-97	WCP-98	WCP-99	WCP-100	WCP-MW-200-0107	WCP-MW-200-0125	WCP-MW-201-0108	WCP-MW-201-0125	WCP-202	WCP-202D	WCP-203	WCP-204
1,1,2-Trichloroethane	**5**																							0.4																				
1,1-Dichloroethane	**NE**								0.9					0.3								2						1									3	3						
1,1-Dichloroethene	**7**						2	2	**25**					**13**			0.7		0.7		0.5	**130**					0.6	**71**		0.4						0.9	**190**	**210**	**26**	**23**				
1,2-Dichloroethane	**5**						2		0.8	1																	0.8									0.9	0.9	1						
1,2-Dichloropropane	**NE**																							0.3																				
Acetone	**NE**																								3						3													
Benzene	**5**																						0.6					0.3										0.3	0.4		**6300**	**5900**		
Bromodichloromethane	**100**												0.7					0.3	0.3					26	0.8	0.9			0.6	0.6	12													
Carbon tetrachloride	**5**																					1						0.3									2	2	0.5					
Chloroform	**100**						0.7	1	0.7	0.7	1	1	2	0.5	0.9			1	1		1	0.5	1	1	3	4		1	2	2	25					0.8	1	1	0.6	0.7		0.3	1	
cis-1,2-Dichloroethene	**70**								0.4		0.6							0.8				0.8	2					0.6									2	2		0.3				
Dibromochloromethane	**100**																														0.4													
Ethylbenzene	**700**																																								0.6	0.5		
m&p-Xylenes	**NE**																																								1	1		
Tetrachloroethene	**5**			**0.9**			4	4	**100**		0.5			**27**					0.4	2	0.5	**200**	1					**150**				0.4				3	**550**	**520**	**27**	**22**		0.7		
Toluene	**1,000**																																						0.3		0.9	0.9		
Trichloroethene	**5**						**6**	**8**	**54**		**11**		1	**15**				**12**	3		1	**170**	**44**		0.7	0.8	4	**500**	**11**	**13**		0.4	0.7		1	3	**550**	**560**	**96**	**89**	2	3		
Xylenes (total)	**10,000**																																								2	1		

Notes:
µg/L = micrograms per liter
AWQS = Arizona Aquifer Water Quality Standard
MCL = EPA Safe Drinking Water Maximum Contaminant Level
NE = None established
MWB-14D, WCP-90D, WCP-94D, and WCP-202D are field duplicates of MWB-14, WCP-90, WCP-94, and WCP-202, respectively.
All samples collected using the three casing volume purge method and the pump discharge sample collection method.
Blank fields indicate analyte not detected above the method detection limit.
Highlighted results indicate an exceedance of the AWQS/MCL.

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
ENT-MW-2	NA	10/14/1999	3 CV	Bailer	NA	117.41	31.8	2636	Clear	5.29	NA	NA
	3	3/10/2000	Low Flow	Bailer and Pump	126	117.4	30.37	2172	6	6.97	30.7	-101
	4	6/12/2000	Low Flow	Pump	NA	117.91	30.54	1809	5.1	6.9	27.02	-239.9
	5	9/19/2000	Low Flow	Pump	126	119.64	29.6	3100	11	6.99	0.36	-278
	6	12/8/2000	Low Flow	Pump	126	122.74	28.34	2780	14.9	6.88	1.6	281
	7	3/6/2001	Low Flow	Pump	126	120.33	30.39	2830	0	7.02	2.58	-282
	8	5/2/2001	Low Flow	Pump	126.25	121.25	34.5	2800	0	7.03	1.52	-259
	9	6/15/2001	Low Flow	Pump	125.55	120.55	33.8	2700	0	6.82	1.69	-264
	10	6/29/2001	3 CV	Pump	130.65	120.65	29.57	2950	NA	6.64	1.9	-266
	11	8/15/2001	Low Flow	Pump	126.87	121.87	38.35	2780	0	7.03	1.49	-239
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MGL-1	8	5/2/2001	Low Flow	Pump	122.17	117.17	30.9	2100	0	7.19	3.01	66
	9	6/14/2001	Low Flow	Pump	120.95	115.95	33.34	2000	0	7.12	3.32	76
	10	6/28/2001	3 CV	Pump	124	116.18	25.7	2420	85	6.77	2.76	172
	11	8/7/2001	Low Flow	Pump	122.23	117.23	32.92	2040	0	7.34	3.03	89
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/5/2001	3 CV	Pump	124	119.23	34.57	1790	3	7.42	1.46	133.8
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MGL-2	8	5/3/2001	Low Flow	Pump	122.69	117.69	29	2200	32	7.19	2.63	69
	9	6/14/2001	Low Flow	Pump	121.4	116.4	31.07	2000	0	7.11	2.78	55
	10	6/28/2001	3 CV	Pump	124	116.68	24.76	2240	0	6.81	0.97	373
	11	8/7/2001	Low Flow	Pump	122.73	117.73	28.3	1930	0	7.35	2.98	98
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13*	11/6/2001	3 CV	Pump	124	119.75	30.47	1900	1687	7.14	6.97	18.7
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MGL-3	8	5/2/2001	Low Flow	Pump	123.03	118.03	29.9	2200	12	7.15	3.39	47
	9	6/14/2001	Low Flow	Pump	123	116.84	30.34	2100	0	7.15	4.65	117
	10	6/28/2001	3 CV	Pump	124.5	117.11	24.66	2460	200	6.87	4.21	250
	11	8/8/2001	Low Flow	Pump	123.2	118.2	29.55	2230	0	7.31	3.88	69

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
MGL-3	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/6/2001	3 CV	Pump	124.5	120.2	28.35	1940	14.5	7.36	3.73	230.1
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MWB-4	1	12/29/1999	Low Flow	Bailer	124	118.33	30.2	1396	36	7.22	12.66	26
	2	2/2/2000	Low Flow	Pump	124	118.25	29.83	1884	32.8	7.3	4.44	126.6
	3	3/8/2000	Low Flow	Bailer and Pump	126	117.98	28.58	1449	21	7.3	38	96.4
	4	6/6/2000	Low Flow	Pump	124	118.57	33.5	1498	12	7.2	5.88	483.2
	5	9/14/2000	Low Flow	Pump	124	120.89	31.2	2020	56	7.3	6.11	99
	6	12/5/2000	Low Flow	Pump	124	121.72	27.52	1850	-10	7.15	4.92	45
	7	2/28/2001	Low Flow	Pump	127	120.95	29.84	2010	>999	7.89	6.08	209
	8	4/25/2001	Low Flow	Pump	124.82	121.82	32.9	1800	1000	7.86	7.97	202
	9	6/7/2001	Low Flow	Pump	126.37	121.37	32.6	1700	64.2	7.38	6.96	287
	10	6/20/2001	3 CV	Pump	129	121.7	32.69	1800	0	7.2	5.95	227
	11	7/30/2001	Low Flow	Pump	125.45	122.45	32.4	1680	>1000	8.13	5.95	151
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13*	10/30/2001	3 CV	Pump	124.67	126.3	34.47	1640	335	8.13	6.22	108
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MWB-5	1	12/28/1999	Low Flow	Bailer	125	118.67	27.1	1232	8.8	7.28	10.32	-22.2
	2	2/2/2000	Low Flow	Pump	125	118.58	26.1	1479	4	7.25	3.52	108.6
	3	3/8/2000	Low Flow	Bailer and Pump	NA	118.33	27.1	1244	9	7.3	4.57	46.3
	4	6/6/2000	Low Flow	Pump	125	118.86	27.3	1256	9	7.09	6.02	455.8
	5	9/13/2000	Low Flow	Pump	125	121.15	29.8	1700	51	7.41	5.9	112
	6	12/5/2000	Low Flow	Pump	125	122.04	25.43	1790	-10	7.14	5.19	57
	7	3/1/2001	Low Flow	Pump	125	121.23	28.04	1900	0	7.28	6.38	246
	8	4/24/2001	Low Flow	Pump	127.23	122.23	29.3	1900	0	7.11	6.2	103
	9	6/7/2001	Low Flow	Pump	126.65	121.65	29.52	1800	0	7.06	5.62	150
	10	6/20/2001	3 CV	Pump	129	121.95	27.81	1900	0	6.93	4.93	116
	11	8/6/2001	Low Flow	Pump	128.2	123.2	35.36	1680	38	7.28	6.3	186
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/2/2001	3 CV	Pump	129	125	29.27	1870	0	7.28	5.24	253.7
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
MWB-5	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MWB-6	1	12/28/1999	Low Flow	Bailer	124	119.3	30	3157	5.9	6.93	4.64	46.2
	2	2/2/2000	Low Flow	Pump	125	119.04	28.82	2224	2.1	6.93	3.19	143.9
	3	3/8/2000	Low Flow	Bailer and Pump	NA	118.94	30.1	1540	3	6.89	3.28	47.6
	4	6/8/2000	Low Flow	Pump	125	119.24	30.7	1817	2	6.85	9.46	492.7
	5	9/13/2000	Low Flow	Pump	125	121.44	33.2	2490	9	7.06	2.81	114
	6	12/5/2000	Low Flow	Pump	125	122.52	28.3	2270	-10	6.82	4.14	93
	7	3/1/2001	Low Flow	Pump	125	121.31	25.88	2280	132	7.9	7.51	233
	8	4/25/2001	Low Flow	Pump	127.11	122.11	31	2100	122	7.94	7.23	311
	9	6/8/2001	Low Flow	Pump	127.25	122.25	31.44	2200	0	7.32	6.87	319
	10	6/20/2001	3 CV	Pump	129	122.4	35.05	2100	0	7.27	5.34	192
	11	7/31/2001	Low Flow	Pump	127.8	122.79	34.35	1990	107	8	5.5	104
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/30/2001	3 CV	Pump	128	125.01	32.34	1800	587.8	8.1	5.81	-53.2
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15*	1/24/2002	3 CV	Pump	128.5	125.92	27.89	1800	54.4	7.8	6.47	145.7
MWB-14	13	11/8/2001	3 CV	Pump	131.86	121.86	26.6	1940	86	7.24	7.63	230
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/21/2002	3 CV	Pump	132.18	122.18	25.32	1910	44.4	7.35	7.26	191
WCP-15	1	12/29/1999	Low Flow	Bailer	123	117.38	25.2	1128	4	7.51	12.8	-58.9
	2	2/2/2000	Low Flow	Bailer and Pump	122	117.36	25.2	1490	4	7.45	4.25	144.7
	3	3/10/2000	Low Flow	Bailer and Pump	122	116.74	26.4	1220	4	7.56	5.75	28.4
	4	6/8/2000	Low Flow	Pump	122	117.65	27.3	1366	3	7.31	6.09	488.1
	5	9/18/2000	Low Flow	Pump	122	120.19	26.2	1690	25	7.55	7.7	38
	6	12/6/2000	Low Flow	Pump	123	120.98	25.8	1860	-10	7.29	5.79	26
	7	3/2/2001	Low Flow	Pump	122	119.87	27.48	2100	0	7.4	5.74	110
	8	4/30/2001	Low Flow	Pump	124	121.11	30.07	2000	0	7.17	9.44	150
	9	6/13/2001	Low Flow	Pump	124	121.00	31.1	1900	0	7.1	5.59	247
	10	6/27/2001	3 CV	Pump	124	121.49	23.92	2300	0	6.9	NA	192
	11	8/14/2001	Low Flow	Pump	123.6	122.92	29.38	2020	27	7.36	5.61	98
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-15	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WCP-16	1	12/29/1999	Low Flow	Bailer	123	116.77	25	1970	5	7.59	2.11	143
	2	2/2/2000	Low Flow	Bailer and Pump	123	116.54	26.71	1529	8.2	7.59	3.85	143.6
	3	3/10/2000	Low Flow	Bailer and Pump	123	115.83	27.61	1311	30	7.55	36.5	103
	4	6/9/2000	Low Flow	Pump	123	116.97	26.3	1359	4	7.64	10.38	350.9
	5	9/18/2000	Low Flow	Pump	123	119.36	25.3	1700	79	7.55	7.77	39
	6	12/16/2000	Low Flow	Pump	123	120.28	24.73	1780	15.9	7.46	5.64	76
	7	3/2/2001	Low Flow	Pump	123	119.15	25.99	1940	0	7.53	6.18	140
	8	4/30/2001	Low Flow	Pump	123	120.3	29.01	1900	0	7.23	9.37	177
	9	6/13/2001	Low Flow	Pump	123	120.19	28.9	1800	0	7.15	5.8	282
	10	6/26/2001	3 CV	Pump	125	120.63	23.63	2220	0	7.01	NA	155
	11	8/14/2001	Low Flow	Pump	124	122.1	26.8	1920	18	7.45	5.88	113
	12	9/24/2001	Low Flow	Pump	125	123.22	26.86	4970	74.5	7.43	10.43	226
	13	11/8/2001	3 CV	Pump	125.9	123.61	27.2	1730	2.5	7.48	76	226
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WCP-17	1	12/29/1999	Low Flow	Bailer	122	116.12	27.2	1423	9	7.32	12.23	-70.2
	2	2/1/2000	Low Flow	Bailer and Pump	122	116.08	29	1764	28	7.64	4.83	155.7
	3	3/9/2000	Low Flow	Bailer and Pump	NA	115.32	28.6	1439	20	7.39	6.31	43.9
	4	6/7/2000	Low Flow	Pump	122	116.05	35.3	1830	18	7.39	12.66	454.4
	5	9/15/2000	Low Flow	Pump	122	118.15	33.8	3230	113	7.26	8.72	120
	6	12/6/2000	Low Flow	Pump	122	119.31	28.81	2900	-10	7.17	6.26	50
	7	2/28/2001	Low Flow	Pump	122	118.8	24.66	2430	48	7.35	7.16	203
	8	4/30/2001	Low Flow	Pump	121.5	119.64	32.22	2400	56	7.18	11.29	179
	9	6/12/2001	Low Flow	Pump	121.5	119.05	33.3	2900	0	7.08	6.01	119
	10	6/26/2001	3 CV	Pump	124	119.45	29.92	3110	9.1	6.87	NA	99
	11	8/14/2001	Low Flow	Pump	123	120.5	32.86	2880	86	7.27	5.93	144
	12	9/21/2001	Low Flow	Pump	124	121.4	33.24	7350	40.5	7.24	10.83	232
	13*	11/8/2001	3 CV	Pump	124.9	122.23	31.87	2500	92	7.24	6.62	175
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-17	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WCP-28	1	12/30/1999	Low Flow	Bailer	129.5	116.81	24.5	1289	8	7.48	6.65	-46.4
	2	2/3/2000	Low Flow	Bailer and Pump	134.5	116.64	24.3	1543	5	7.35	4.48	114.9
	3	3/9/2000	Low Flow	Bailer and Pump	134.5	115.81	24.6	1375	7.5	7.49	5.32	-4.9
	4	6/8/2000	Low Flow	Pump	129.5	116.9	24.8	1525	8	7.57	5.18	361.3
	5	9/18/2000	Low Flow	Pump	129.5	119.4	25	1790	61	7.6	8.25	58
	6	12/7/2000	Low Flow	Pump	129.5	120.27	24.7	2070	3	7.41	5.35	37
	7	3/1/2001	Low Flow	Pump	129.5	119.2	24.73	2300	0	7.42	7.06	189
	8	4/30/2001	Low Flow	Pump	125.44	120.44	28.74	2100	0	7.36	10.62	136
	9	6/12/2001	Low Flow	Pump	125.27	120.27	26.83	2000	0	7.13	6.49	217
	10	6/26/2001	3 CV	Pump	130.67	121.67	23.65	2330	0	7.02	NA	184
	11	8/8/2001	Low Flow	Pump	126.98	121.98	25.91	2070	0	7.47	6.84	131
	12	9/20/2001	Low Flow	Pump	128.14	123.14	25.35	5410	32.6	7.46	15.3	188
	13	11/5/2001	3 CV	Pump	133.55	123.55	25.36	1870	0	7.53	7.05	259
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/22/2002	3 CV	Pump	133.36	123.36	23.49	1850	0	7.48	6.88	170.2
WCP-29	1	12/30/1999	Low Flow	Bailer	129.5	116.85	23.84	2510	3.7	7.63	2.35	132.8
	2	2/3/2000	Low Flow	Bailer and Pump	129	116.48	25.34	1468	13	7.69	3.45	145.5
	3	3/9/2000	Low Flow	Bailer and Pump	129	115.65	25.19	1615	3	7.56	16.13	126.2
	4	6/8/2000	Low Flow	Pump	129.5	116.81	25.1	1394	1.6	7.47	3.52	444.7
	5	9/18/2000	Low Flow	Pump	129.5	119.36	26.2	1660	91	7.48	7.87	105
	6	12/7/2000	Low Flow	Pump	129.5	120.21	24.6	1930	2	7.41	5.55	43
	7	3/1/2001	Low Flow	Pump	129.5	119.15	24.51	2140	0	7.53	7.28	185
	8	4/30/2001	Low Flow	Pump	125.35	120.35	28.58	2000	0	7.31	10.7	157
	9	6/12/2001	Low Flow	Pump	125.18	120.18	27.23	1900	0	7.16	6.61	249
	10	6/26/2001	3 CV	Pump	130.58	120.58	23.5	2150	0	6.96	NA	194
	11	8/8/2001	Low Flow	Pump	126.91	121.91	26.08	1890	0	7.48	6.53	151
	12	9/20/2001	Low Flow	Pump	128.06	123.06	25.64	4930	25.6	7.47	14.98	218
	13	11/5/2001	3 CV	Pump	133.48	123.48	25.03	1720	0	7.54	7.44	275.9
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/22/2002	3 CV	Pump	133.27	123.27	23.47	1700	0	7.49	6.96	171.8

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-30	1	12/30/1999	Low Flow	Bailer	129	118.39	25.1	2110	10	7.71	1.96	138.8
	2	2/3/2000	Low Flow	Bailer and Pump	134.5	118.25	26.3	1210	18	7.78	3.46	160
	3	3/10/2000	Low Flow	Bailer and Pump	134.5	117.64	27.4	1126	13	7.66	5.59	-16.8
	4	6/9/2000	Low Flow	Pump	134.5	118.77	25.6	1216	2	7.66	7.75	464.8
	5	9/19/2000	Low Flow	Pump	134.5	121.39	26.1	1580	54	7.53	6.88	55
	6	12/7/2000	Low Flow	Pump	134.5	121.96	25.1	1840	0	7.47	5.27	38
	7	3/2/2001	Low Flow	Pump	134.5	120.89	24.85	1940	0	7.67	6.18	98
	8	5/1/2001	Low Flow	Pump	127.13	122.13	28.9	1900	0	7.45	6.86	232
	9	6/13/2001	Low Flow	Pump	126.97	121.97	28.61	1700	0	7.33	5.86	222
	10	6/27/2001	3 CV	Pump	132.47	124.47	23.78	2180	0	7.05	4.51	147
	11	8/15/2001	Low Flow	Pump	128.98	123.98	26.32	1800	0	7.4	5.72	152
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/9/2001	3 CV	Pump	135.47	125.47	24.84	1800	0	7.53	6.66	232
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/24/2002	3 CV	Pump	135.2	125.2	23.61	1770	0	7.52	6.29	161.6
WCP-40	1	12/27/1999	Low Flow	Bailer	128	116.94	24.95	1529	5	7.47	7.54	-25.7
	2	1/31/2000	Low Flow	Pump	128	116.77	25.9	1470	21	7.22	6.84	127.6
	3	3/7/2000	Low Flow	Bailer and Pump	130	115.94	25.5	1401	56	7.49	5.82	74.7
	4	6/5/2000	Low Flow	Pump	128	116.8	26.6	1636	28	7.19	8.24	461.7
	5	9/12/2000	Low Flow	Pump	128	119.18	26	1920	>990	7.37	7.92	67
	6	12/4/2000	Low Flow	Pump	128	120.39	25.83	2100	-10	7.22	7.49	51
	7	2/22/2001	Low Flow	Pump	128	119.5	25.03	2240	0	7.38	6.14	84
	8	4/23/2001	Low Flow	Pump	124	119.01	29.6	2200	26.2	7.37	7.51	139
	9	6/5/2001	Low Flow	Pump	125.15	120.15	29.1	2100	0	7.43	5.38	159
	10	6/18/2001	3 CV	Pump	130.49	120.49	26.95	2200	0	6.9	6.25	112
	11	7/31/2001	Low Flow	Pump	126.84	121.84	26.48	1930	116	7.52	7.12	103
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/29/2001	3 CV	Pump	133.47	123.47	27.3	1630	7.3	7.57	6.93	170
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/10/2002	3 CV	Pump	133.46	123.46	24.02	1870	6.5	7.37	6.67	91.7
WCP-41	1	12/29/1999	Low Flow	Bailer	134.5	115.62	25.51	1874	3.1	7.74	2.73	139.4
	2	1/31/2000	Low Flow	Pump	134	115.47	25.1	1052	5	7.56	5.95	131.2

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-41	3	3/8/2000	Low Flow	Bailer and Pump	134.5	114.48	25.93	1117	1.5	7.71	35.9	93.1
	4	6/6/2000	Low Flow	Pump	134	115.37	27.4	1205	30	7.07	8.05	517.9
	5	9/13/2000	Low Flow	Pump	134	117.85	25.8	1660	260	7.67	6.19	74
	6	12/5/2000	Low Flow	Pump	134	118.96	24.64	1740	-10	7.45	5.48	52
	7	2/27/2001	Low Flow	Pump	134	118.04	24.37	1700	0	7.66	6.25	204
	8	4/27/2001	Low Flow	Pump	123.99	118.99	29.05	1700	49	7.37	10.73	283
	9	6/12/2001	Low Flow	Pump	123.81	118.81	28.11	1800	0	7.37	5.53	196
	10	6/21/2001	3 CV	Pump	129.12	119.12	23.73	1920	18.7	7.3	12.77	92
	11	8/2/2001	Low Flow	Pump	125.38	120.38	27.8	1970	12	7.5	7.03	108
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/1/2001	3 CV	Pump	132.18	122.18	25.39	1670	0	7.65	6	219.7
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/22/2002	3 CV	Pump	132.07	122.07	23.42	1550	0	7.67	5.76	159.5
WCP-42	1	12/27/1999	Low Flow	Bailer	135	117.93	23.52	1817	16.8	7.53	6.78	99
	2	1/31/2000	Low Flow	Pump	134	117.68	24.15	3189	42.8	7.46	2.57	84.7
	3	3/7/2000	Low Flow	Bailer and Pump	133	117.38	25.6	1324	23	7.57	6.23	44.3
	4	6/5/2000	Low Flow	Pump	134	118.18	25.3	1586	27	6.74	11.71	523.3
	5	9/12/2000	Low Flow	Pump	134	120.62	25.9	2010	310	7.52	7.74	36
	6	12/4/2000	Low Flow	Pump	134	121.39	24.14	2150	13	7.33	7.02	23
	7	2/22/2001	Low Flow	Pump	134	120.51	24.75	2280	0	7.38	5.31	71
	8	4/23/2001	Low Flow	Pump	126.55	121.55	26.9	2000	18.7	7.53	8.52	90
	9	6/5/2001	Low Flow	Pump	126.37	121.37	27.66	2100	0	7.67	5.43	112
	10	6/18/2001	3 CV	Pump	131.69	121.69	25.06	2200	0	7.09	5.91	101
	11	7/30/2001	Low Flow	Pump	128.15	123.13	24	2050	720	7.64	6.97	102
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/29/2001	3 CV	Pump	134.17	124.17	26.01	1840	0	7.65	6.65	178.2
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/10/2002	3 CV	Pump	134.62	124.62	23.05	1970	2.3	7.43	7.21	87.2
WCP-43	1	12/27/1999	Low Flow	Bailer	130	116.42	25.69	1668	15.2	7.51	6.2	71.8
	2	1/31/2000	Low Flow	Pump	134	116.36	25.77	2590	19.9	7.46	3.02	177.1
	3	3/7/2000	Low Flow	Bailer and Pump	134	114.97	24.58	1460	21	7.49	39	125.6
	4	6/5/2000	Low Flow	Pump	134	115.94	25.4	1188	19	7.16	7.9	480.5

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-43	5	9/12/2000	Low Flow	Pump	134	118.22	25.1	1500	300	7.49	7.48	37
	6	12/4/2000	Low Flow	Pump	134	119.59	26.08	1830	-2	7.36	7.16	24
	7	2/22/2001	Low Flow	Pump	134	119.18	25.14	2040	0	7.3	6.65	86
	8	4/24/2001	Low Flow	Pump	124.86	119.86	28	2000	0	7.24	6.84	118
	9	6/6/2001	Low Flow	Pump	124.64	119.64	29.81	2000	0	7.21	6.3	177
	10	6/19/2001	3 CV	Pump	129.97	119.97	25.9	1700	0	6.91	5.57	116
	11	8/1/2001	Low Flow	Pump	126.27	121.27	26.98	1650	32	7.38	7.74	124
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/31/2001	3 CV	Pump	132.84	122.82	25.71	1590	0	7.33	6.65	205
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/22/2002	3 CV	Pump	133.04	123.04	23.63	1530	2.1	7.32	6.29	136.1
WCP-44	1	12/29/1999	Low Flow	Bailer	137	117.00	27.31	4650	10	6.95	0.62	50.1
	2	2/1/2000	Low Flow	Pump	138	116.95	27.4	2697	29	6.92	0.26	47.1
	3	3/9/2000	Low Flow	Bailer and Pump	136	116.67	29.3	3200	6	6.92	36.7	23.6
	4	6/12/2000	Low Flow	Bailer	NA	117.09	29.17	2506	6	6.81	3.54	-187.6
	5	9/19/2000	Low Flow	Pump	138	118.88	30.4	4060	26	6.9	0.48	-196
	6	12/8/2000	Low Flow	Pump	138	120.11	29.68	3510	35.1	6.8	1.7	251
	7	3/6/2001	Low Flow	Pump	138	119.69	29.87	3790	0	6.87	2.4	-227
	8	5/2/2001	Low Flow	Pump	125.6	120.6	31.5	3700	0	6.91	1.95	-201
	9	6/15/2001	Low Flow	Pump	124.86	119.86	31.95	3600	0	6.66	1.74	-216
	10	6/29/2001	3 CV	Pump	130.01	120.01	28.19	3830	29	6.6	3	-225
	11	8/15/2001	Low Flow	Pump	126.07	121.07	35.65	3620	0	6.9	1.63	-206
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WCP-45	1	12/28/1999	Low Flow	Bailer	NA	117.67	25.17	1589	40.6	7.88	3.16	148.7
	2	2/1/2000	Low Flow	Pump	127	117.4	26.03	936	4.6	7.85	3.31	190
	3	3/8/2000	Low Flow	Bailer and Pump	127	116.9	25.86	959	30	7.88	35.9	104
	4	6/7/2000	Low Flow	Pump	127	118.02	27.1	1171	11	7.42	6.63	523.7
	5	9/14/2000	Low Flow	Pump	127	120.53	28.6	1740	109	7.51	7.4	112
	6	12/6/2000	Low Flow	Pump	127	121.34	25.1	1670	-10	7.48	6.11	17
	7	3/2/2001	Low Flow	Pump	127	120.04	25.24	1660	17	7.8	6.28	144

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-45	8	4/30/2001	Low Flow	Pump	126.37	121.37	29.64	1700	15	7.5	9.97	192
	9	6/11/2001	Low Flow	Pump	126.08	121.08	29.3	1800	0	7.23	6.22	209
	10	6/22/2001	3 CV	Pump	131.38	121.38	24.51	1790	0	7.25	16.47	78
	11	8/13/2001	Low Flow	Pump	128.13	123.13	26.53	1820	50	7.5	6.44	79
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/7/2001	3 CV	Pump	134.55	124.55	24.48	1580	0.3	7.68	6.83	256
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/24/2002	3 CV	Pump	134.25	124.25	24.24	1610	0	7.69	6.37	147.7
WCP-46	1	12/28/1999	Low Flow	Bailer	NA	119.12	25.4	1123	33	7.93	6.8	-103.1
	2	2/1/2000	Low Flow	Pump	128	119.06	24.85	1130	37.9	7.92	3.99	123.6
	3	3/8/2000	Low Flow	Bailer and Pump	128	118.58	25.3	1155	16	7.87	5.42	-7.1
	4	6/7/2000	Low Flow	Pump	128	119.65	25.4	1247	4	7.61	7.5	469.3
	5	9/14/2000	Low Flow	Pump	128	122.1	25.2	1510	218	7.85	7.46	73
	6	12/6/2000	Low Flow	Pump	128	122.85	24.3	1720	-10	7.73	5.99	46
	7	2/23/2001	Low Flow	Pump	NA	121.75	25.73	1840	0	7.96	6.28	187
	8	4/25/2001	Low Flow	Pump	127.81	122.81	28	1800	20	7.6	8.59	182
	9	6/7/2001	Low Flow	Pump	127.66	122.66	27.02	1800	0	7.57	6.44	160
	10	6/22/2001	3 CV	Pump	133.1	123.1	23.27	1940	0	7.51	17.92	100
	11	8/2/2001	Low Flow	Pump	129.46	124.46	26.51	1810	13	7.78	8.02	150
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/1/2001	3 CV	Pump	136.06	126.06	24.97	1720	0	7.88	6.69	208.9
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/10/2002	3 CV	Pump	135.8	125.8	23.51	1690	3	7.84	6.87	104.1
WCP-47	7	2/22/2001	Low Flow	Pump	126.78	121.78	23.89	1780	0	7.49	5.24	71
	8	4/23/2001	Low Flow	Pump	128.01	123.01	27.4	1600	0	7.5	7.83	111
	9	6/6/2001	Low Flow	Pump	127.83	122.83	26.2	1700	0	7.17	6.15	227
	10	6/18/2001	3 CV	Pump	133.1	124.1	24.95	1700	0	7.01	6.36	116
	11	7/31/2001	Low Flow	Pump	129.56	124.56	25.66	1670	48	7.62	5.81	100
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/29/2001	3 CV	Pump	136.1	126.1	25.05	1460	0	7.79	6.28	191.4
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/18/2002	3 CV	Pump	135.84	125.84	22.6	1610	17.8	7.53	6.94	118.8
WCP-48		8/17/2000	Low Flow	Pump	235	119.7	28.4	1350	200	7.56	6.6	144
	5	9/29/2000	Low Flow	Pump	235	120.59	28.2	1120	990	6.14	3.12	114

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-48	6	12/11/2000	Low Flow	Pump	235	121.76	26.64	1320	0	7.29	5.57	14
	7	3/6/2001	Low Flow	Pump	235	119.33	26.13	1370	37	7.52	6.84	27
	8	4/25/2001	Low Flow	Pump	235	121.72	29.3	1300	0	7.52	8.06	75
	9	6/11/2001	Low Flow	Pump	235	120.92	28.55	1300	0	7.23	6.04	71
	10	6/25/2001	3 CV	Pump	235	121.36	25.02	1330	0	7.16	NA	32
	11	8/3/2001	Low Flow	Pump	235	122.67	28.28	1270	0	7.59	5.7	122
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/1/2001	3 CV	Pump	235	124.2	26.56	1180	0	7.58	6.25	233.7
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/17/2002	3 CV	Pump	235	123.66	24.25	1190	5.1	7.54	5.6	62.3
WCP-83	7	2/26/2001	Low Flow	Pump	122.55	117.55	23.83	1750	0	7.41	4.15	156
	8	4/27/2001	Low Flow	Pump	123.11	118.11	30.11	1800	17	7.19	8.78	174
	9	6/8/2001	Low Flow	Pump	122.8	117.8	27.49	1800	0	7.12	5.04	124
	10	6/21/2001	3 CV	Pump	128.15	118.15	25.26	1800	0	6.89	5	236
	11	8/3/2001	Low Flow	Pump	124.42	119.42	27.56	1830	0	7.44	5.07	76
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/2/2001	3 CV	Pump	131.4	121.4	24.86	1790	0	7.46	4.96	220.2
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/23/2002	3 CV	Pump	131.66	121.66	23.2	1810	0	7.4	5.22	145.1
WCP-84	7	2/26/2001	Low Flow	Pump	123.83	118.83	23.72	1790	0	7.55	4.37	168
	8	4/26/2001	Low Flow	Pump	124.8	119.8	27.3	1800	9	7.33	6.34	200
	9	6/12/2001	Low Flow	Pump	124.68	119.68	27.11	1700	0	7.22	5.73	181
	10	6/21/2001	3 CV	Pump	129.95	119.95	25.3	1700	0	7.09	5.7	199
	11	8/3/2001	Low Flow	Pump	126.22	121.22	27.16	1710	0	7.57	5.67	108
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	11/2/2001	3 CV	Pump	132.96	122.96	24.51	1610	0	7.61	6.45	240.7
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/10/2002	3 CV	Pump	132.89	122.89	23.44	1530	0	7.56	6.12	94.7
WCP-85	7	2/27/2001	Low Flow	Pump	122.96	117.96	25.07	1610	43	7.39	5.64	205
	8	4/26/2001	Low Flow	Pump	123.46	118.46	28.5	1600	0	7.07	5.77	152
	9	6/8/2001	Low Flow	Pump	124.06	118.06	28.46	1400	0	7.15	5.38	130
	10	6/20/2001	3 CV	Pump	128.35	118.35	26.92	1400	0	7	4.61	125
	11	8/1/2001	Low Flow	Pump	124.46	119.46	28.8	1400	9	7.41	6.8	123
	12	9/19/2001	Low Flow	Pump	125.65	120.65	25.52	4020	53.2	7.4	15.39	174
	13	11/2/2001	3 CV	Pump	131.17	121.17	25.42	1490	0	7.47	5	196.1

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-85	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/14/2002	3 CV	Pump	131.97	121.97	29.46	1410	116.8	7.59	5.31	12.5
WCP-86	7	2/26/2001	Low Flow	Pump	124.08	119.08	27.86	2370	0	7.21	3.91	193
	8	4/24/2001	Low Flow	Pump	124.84	119.84	31.5	2300	0	7.24	4.87	85
	9	6/7/2001	Low Flow	Pump	124.02	119.02	32.55	2700	0	7.06	4.12	116
	10	6/19/2001	3 CV	Pump	129.3	119.3	27.29	2800	0	6.86	3.98	110
	11	8/2/2001	Low Flow	Pump	125.35	120.35	31.81	2870	3	7.18	5.12	93
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/31/2001	3 CV	Pump	132	122	26.76	2700	32.3	7.11	4.4	172.8
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/11/2002	3 CV	Pump	132.83	122.83	24.88	2450	74.2	7.17	4.78	98
WCP-S87	7	3/5/2001	Low Flow	Pump	124.3	119.3	26.71	1440	0	7.53	5.79	133
WCP-D87	7	3/5/2001	Low Flow	Pump	150	119.3	25.98	1430	0	7.55	5.95	126
WCP-87	8	5/2/2001	Low Flow	Pump	125.49	120.49	31	1500	0	7.4	5.98	261
	9	6/14/2001	Low Flow	Pump	125.36	120.36	33.47	1500	0	7.33	6.7	230
	10	6/27/2001	3 CV	Pump	130.63	120.63	25.09	1690	0	7.03	4.44	105
	11	8/15/2001	Low Flow	Pump	127.11	122.11	30	1850	0	7.34	1.92	-21
	12	9/21/2001	Low Flow	Pump	128.08	123.08	31.41	4890	0	7.41	8.84	11
	13	11/9/2001	3 CV	Pump	133.68	123.68	25.92	1740	0	7.41	0.58	125.86
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/24/2002	3 CV	Pump	133.5	123.5	24.98	1340	0	7.54	5.66	164.5
WCP-88	7	2/28/2001	Low Flow	Pump	124.95	119.95	25.16	1870	0	7.33	4.58	124
	8	5/1/2001	Low Flow	Pump	125.34	120.34	29.4	1700	25	7.26	4.2	79
	9	6/13/2001	Low Flow	Pump	125.03	120.03	30.68	1600	0	7.12	4.7	91
	10	6/27/2001	3 CV	Pump	130.48	120.48	25.1	1860	0	6.84	2.93	136
	11	8/13/2001	Low Flow	Pump	126.51	121.51	28.33	1630	20	7.3	3.98	74
	12	9/21/2001	Low Flow	Pump	127.58	122.48	27.18	4420	3.7	7.3	12.99	97
	13	11/7/2001	3 CV	Pump	133.32	123.32	25.04	1540	0	7.33	3.74	256.2
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/24/2002	3 CV	Pump	133.73	123.73	24.69	1520	0	7.3	3.94	132.4
WCP-89	7	2/23/2001	Low Flow	Pump	126.49	121.49	26.5	1740	0	7.36	5.83	114
	8	4/24/2001	Low Flow	Pump	127.59	122.59	28.9	1600	61	7.26	7.2	105
	9	6/6/2001	Low Flow	Pump	127.05	122.05	29.82	2100	0	7.11	6.13	162
	10	6/18/2001	3 CV	Pump	132.37	122.37	27.7	2100	0	6.72	6.08	117

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-89	11	8/1/2001	Low Flow	Pump	128.58	123.58	30	2190	5	7.23	7.4	116
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/31/2001	3 CV	Pump	135.47	125.47	26.94	1920	0	7.2	6.64	212
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/11/2002	3 CV	Pump	135.74	125.74	25.48	1890	32.8	7.25	6.45	113.9
WCP-90	7	2/23/2001	Low Flow	Pump	130.78	125.78	26.75	2280	0	7.4	4.69	69
	8	4/24/2001	Low Flow	Pump	132.22	127.22	29.5	2300	7	7.23	5.71	88
	9	6/6/2001	Low Flow	Pump	132.12	127.12	29.13	2400	0	7.08	5.7	155
	10	6/19/2001	3 CV	Pump	137.49	127.49	28.23	2300	0	6.92	5.47	114
	11	7/31/2001	Low Flow	Pump	133.85	128.85	29.2	2340	16	7.35	5.41	103
	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	13	10/30/2001	3 CV	Pump	140.18	130.18	27.67	2090	0	7.38	6.41	259.9
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/16/2002	3 CV	Pump	139.83	129.83	25.74	2020	0	7.41	7.1	109.5
WCP-92	11	8/8/2001	Low Flow	Pump	122.65	117.65	26.29	2350	22	7.31	4.85	106
	12	9/19/2001	Low Flow	Pump	123.59	118.59	26.07	6060	61.7	7.34	14.92	118.72
	13	11/6/2001	3 CV	Pump	129.33	119.67	24.64	2060	0	7.31	5.36	309.6
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/23/2002	3 CV	Pump	130.27	120.27	24.28	2160	0	7.34	5.04	140.5
WCP-93	11	8/13/2001	Low Flow	Pump	125.5	120.5	30.13	3080	66	7.21	6.41	112
	12	9/24/2001	Low Flow	Pump	126.67	121.67	28.02	7920	49.8	7.23	10.2	183
	13	11/9/2001	3 CV	Pump	132.11	122.11	24.54	2430	4	7.26	7.4	266
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/25/2002	3 CV	Pump	132.02	122.02	23.94	2010	2.4	7.36	6.55	150.1
WCP-94	11	8/9/2001	Low Flow	Pump	125.63	120.65	27.59	1770	17	7.31	5.78	89
	12	9/20/2001	Low Flow	Pump	126.62	121.62	28.43	4610	26.4	7.44	14.18	235
	13	11/7/2001	3 CV	Pump	132.65	122.65	24.71	1570	9.5	7.54	6.81	256.4
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/23/2002	3 CV	Pump	133.2	123.2	24.47	1530	9.3	7.56	6.75	145.5
WCP-95	11	8/6/2001	Low Flow	Pump	114.22	109.22	34.78	1330	3	7.39	6.71	224
	12	9/18/2001	Low Flow	Pump	114.88	109.88	30.43	3400	23	7.24	11.73	285
	13	11/5/2001	3 CV	Pump	120.07	110.07	26.87	1530	25.2	7.37	7.11	215.6
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/16/2002	3 CV	Pump	119.89	109.89	25.73	1390	17.2	7.5	6.68	91.2

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)
WCP-96	11	8/9/2001	Low Flow	Pump	123.71	118.71	28.59	1720	33	7.23	5.16	160
	12	9/19/2001	Low Flow	Pump	124.37	119.37	27.01	4490	25.4	7.33	15.38	258
	13	10/31/2001	3 CV	Pump	130.2	120.2	25.89	1520	0	7.36	7.21	208.2
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/16/2002	3 CV	Pump	131.26	121.26	24.19	1530	16.2	7.46	7.01	100.3
WCP-97	11	8/6/2001	Low Flow	Pump	123.82	118.82	32.07	1510	44	7.36	7.01	93
	12	9/19/2001	Low Flow	Pump	125.06	120.06	31.65	4010	10.2	7.4	13.52	270
	13	11/2/2001	3 CV	Pump	130.82	120.82	25.7	1300	0	7.55	5.53	262.4
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/17/2002	3 CV	Pump	131.22	121.22	24.09	1230	2.3	7.57	5.79	96.4
WCP-98	11	8/7/2001	Low Flow	Pump	120.47	115.47	29.61	1550	6	7.43	7.55	183
	12	9/18/2001	Low Flow	Pump	121.66	116.66	28.85	4080	30.5	7.36	15.35	269
	13	11/5/2001	3 CV	Pump	127.47	117.47	24.59	1340	0	7.51	8.07	236.4
	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/17/2002	3 CV	Pump	127.99	117.99	22.88	1140	0	7.7	7.81	109.1
WCP-99	14	12/18/2001	3 CV	Pump	126.7	116.7	24.83	1350	18.8	7.37	7.57	75.6
	15	1/17/2002	3 CV	Pump	127.22	117.22	22.51	1480	5.8	7.45	7.24	95.2
WCP-100	14	12/19/2001	3 CV	Pump	134.08	124.08	23.5	1680	0	7.33	6.23	172.2
	15	1/23/2002	3 CV	Pump	133.84	123.84	23.23	1760	0	7.42	6.83	152.9
WCP-200		1/7/2002	3 CV	Pump	133.86	123.86	24.12	1650	34.2	7.49	6.34	85.8
	15	1/25/2002	3 CV	Pump	133.7	123.7	24.11	1710	0	7.48	6.55	157.6
WCP-201		1/8/2002	3 CV	Pump	132.69	122.69	24.27	1580	9.3	7.6	5.88	81.4
	15	1/25/2002	3 CV	Pump	132.53	122.53	24.35	1550	0	7.57	5.55	149.9
WCP-202	14	12/18/2001	3 CV	Pump	130.15	120.15	26.06	2030	9.6	7.16	0.2	-110.1
	15	1/24/2002	3 CV	Pump	130.43	120.43	25.78	2170	0	7.23	0.34	14.4
WCP-203	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15	1/22/2002	3 CV	Pump	139.85	129.85	25.45	2210	0	7.31	6.56	164.6
WCP-204	14	12/18/2001	3 CV	Pump	129.37	119.37	24.54	2620	2.5	7.07	8.04	150
	15	1/21/2002	3 CV	Pump	129.61	119.61	24.28	2760	0	7.2	7.2	156.4

1) 3 CV = Three-casing volumes were removed prior to sampling; Low Flow = Drawdown during purging was≤4 inches; pump rates were approximately 0.5-4 liters per minute.
NS = Not sampled
2) Bailer = Sample collected with a disposable bailer; Pump = Sample collected with a 2-inch Grundfos™ pump.
3) Pump depth in feet below ground surface (ft bgs).
4) Depth to water measurement is prior to purging activities.

Table 7-25
Groundwater Sampling Field Data
WCP East Grand Avenue WQARF Site Remedial Investigation

Monitor Well	Round	Sample Date	Purge Method (1)	Sample Method (2)	Pump Depth (3) (ft bgs)	Depth to Water (4) (ft)	Temperature (°C)	Conductance (µS/cm)	Turbidity (NTU)	pH	DO (mg/L)	Redox (mV)

* Well purged dry. Parameter measurements were not stabilized.
°C = Degrees Centigrade
S/cm = Siemens per centimeter
NTU = Nephelometric turbidity units
mg/L = milligrams per liter
mV = millivolts

Table 7-26
Passive Diffusion Bag Samples Vs. Pump Discharge Samples
Round 12 - September 2001
WCP East Grand Avenue WQARF Site Groundwater Sampling

Well	Depth to Water (1) (ft bgs)	Sample Type	Sample Depth(2) (ft bgs)	PCE (µg/L)	TCE (µg/L)	1,1-DCE (µg/L)	Acetone (µg/L)
WCP-16	123.22	PDB	123.00	300	420	73	32
		Pump Sample	125.00	130	180	35	<2
		Pump Duplicate	125.00	110	160	39	<2
WCP-17	121.40	PDB	122.68	58	190	57	26
		Pump Sample	124.00	36	120	32	<2
WCP-28	123.14	PDB-shallow	124.31	77	74	25	28
		Pump Sample	128.14	7	10	2	<2
		PDB-deep	136.00	<0.5	1.1	<1.0	25
WCP-29	123.06	PDB-shallow	124.22	34	46	11	29
		Pump Sample	128.06	8	12	3	<2
		Pump Duplicate	128.06	7	12	3	<2
		PDB-deep	136.00	<0.5	1.1	<1.0	24
WCP-85	120.65	PDB-shallow	122.81	<0.5	1.1	<1.0	32
		Pump Sample	125.65	<0.2	2	<0.2	<2
		PDB-deep	146.50	<0.5	2.4	<1.0	32
WCP-87	123.08	PDB-shallow	124.27	63	37	29	57
		Pump Sample	128.08	49	39	37	<2
		PDB-deep	149.00	86	50	42	45
WCP-88	122.48	PDB-shallow	123.72	<0.5	14	<1.0	25
		Pump Sample	127.58	0.5	33	0.2	<2
		PDB-deep	146.50	<0.5	14	<1.0	22
WCP-93	121.67	PDB-shallow	122.70	150	500	84	45
		Pump Sample	126.67	230	800	130	<2
		PDB-deep	145.50	370	990	140	43
WCP-94	121.62	PDB-shallow	122.88	<0.5	11	<1.0	46
		Pump Sample	126.62	<0.2	11	0.4	<2
		PDB-deep	146.50	<0.5	6.3	<1.0	52

Notes:
(1) Depth-to-water measurements indicate level on day of sampling.
ft bgs = feet below ground surface
(2) Sample depth indicates the pump depth or depth at which PDB was installed.
µg/L = micrograms per liter

Table 7-27
Percent Moisture in Soils
WCP East Grand Avenue WQARF Site

Sample ID	Sample Date	Percent Moisture
SB-10-001	9/1/1999	16.0
SB-10-006	9/1/1999	11.8
SB-10-011	9/1/1999	11.8/11.8
SB-10-021	9/1/1999	22.8
SB-10-031	9/1/1999	7.3
SB-10-055	9/1/1999	13.5
SB-10-071	9/1/1999	10.8
SB-10-096	9/1/1999	12.4
SB-10-111	9/1/1999	16.1
SB-10-121	9/1/1999	21.5
SB-11-001	9/2/1999	16.3
SB-11-006	9/2/1999	9.2
SB-11-011	9/2/1999	11.7
SB-11-026	9/2/1999	12.5
SB-11-041	9/2/1999	9.4
SB-11-056	9/2/1999	11.2
SB-11-071	9/2/1999	6.5
SB-11-091	9/2/1999	7.6
SB-11-106	9/2/1999	16.5
SB-11-121	9/2/1999	19.1/19.1
SB-12-001	9/3/1999	14.6
SB-12-006	9/3/1999	16.6
SB-12-011	9/3/1999	10.1
SB-12-026	9/3/1999	11.1
SB-12-061	9/3/1999	23.5
SB-12-076	9/3/1999	12.7
SB-12-096	9/3/1999	13.3
SB-12-106	9/3/1999	22.1
SB-12-116	9/3/1999	16.8
SB-12-121	9/3/1999	22.9/22.9
SB-13-001	9/7/1999	18.5
SB-13-006	9/7/1999	9.6
SB-13-011	9/7/1999	11.3
SB-13-021	9/7/1999	11.9
SB-13-056	9/7/1999	3.1
SB-13-061	9/7/1999	22.7
SB-13-071	9/7/1999	12.8
SB-13-081	9/7/1999	4.3
SB-13-096	9/7/1999	9.7
SB-13-126	9/7/1999	16.3
SB-14-001	9/8/1999	15.8
SB-14-006	9/8/1999	9.4
SB-14-011	9/8/1999	10.3
SB-14-021	9/8/1999	16.3
SB-14-031	9/8/1999	6.3
SB-14-036	9/8/1999	8.6
SB-14-041	9/8/1999	16.4
SB-14-056	9/8/1999	6.1/6.1
SB-14-061	9/8/1999	22.7
SB-14-071	9/8/1999	9.9
WCP-40-016	9/27/1999	6.0
WCP-40-086	9/27/1999	9.1

Sample ID	Sample Date	Percent Moisture
SB-14-096	9/8/1999	15.7
SB-14-111	9/8/1999	8.2
SB-14-126	9/8/1999	22.4
SB-15-001	9/9/1999	27.0
SB-15-011	9/9/1999	20.2
SB-15-021	9/9/1999	24.0
SB-15-041	9/9/1999	22.9
SB-15-061	9/9/1999	16.8
SB-15-071	9/9/1999	11.2
SB-15-081	9/9/1999	8.0
SB-15-096	9/9/1999	12.8
SB-15-106	9/9/1999	21.4
SB-15-126	9/9/1999	19.1
SB-15-167	9/10/1999	25.7
SB-16-001	9/13/1999	18.3
SB-16-006	9/13/1999	12.8
SB-16-011	9/13/1999	15.9
SB-16-021	9/13/1999	12.3
SB-16-046	9/13/1999	15.8
SB-16-061	9/13/1999	11.5
SB-16-071	9/13/1999	22.8
SB-16-091	9/13/1999	8.9
SB-16-106	9/13/1999	21.1
SB-16-121	9/13/1999	24.8
SB-17-001	9/15/1999	13.6
SB-17-006	9/15/1999	13.1/9.2
SB-17-011	9/15/1999	11.0
SB-17-021	9/15/1999	15.7
SB-17-041	9/15/1999	12.0
SB-17-056	9/15/1999	13.3
SB-17-071	9/15/1999	9.8/14.3
SB-17-091	9/15/1999	14.0
SB-17-106	9/15/1999	15.0
SB-17-111	9/15/1999	13.9
SB-17-120	9/15/1999	11.0
SB-17-136	9/16/1999	22.7
WCP-MW-100-036	11/20/2001	10.0
WCP-MW-100-056	11/20/2001	12.4
WCP-MW-100-071	11/20/2001	13.3
WCP-MW-100-091	11/20/2001	11.6
WCP-MW-100-116	11/20/2001	18.5
WCP-MW-100-121	11/20/2001	14.5/15.3
WCP-MW-100-126	11/20/2001	28.3
WCP-MW-200-026	11/16/2001	13.5
WCP-MW-200-056	11/16/2001	12.0
WCP-MW-200-076	11/16/2001	7.8
WCP-MW-200-096	11/16/2001	9.5
WCP-MW-200-116	11/16/2001	9.4
WCP-MW-200-121	11/16/2001	22.8
WCP-MW-200-126	11/16/2001	24.9
WCP-MW-092-081	7/16/2001	19.4
WCP-MW-092-121	7/16/2001	17.4/17.1

Table 7-27
Percent Moisture in Soils
WCP East Grand Avenue WQARF Site

Sample ID	Sample Date	Percent Moisture
WCP-40-121	9/27/1999	24.2
WCP-41-016	9/29/1999	7.2
WCP-41-091	9/29/1999	16.5
WCP-41-116	9/29/1999	17.5
WCP-42-016	10/1/1999	11.9
WCP-42-096	10/1/1999	15.9
WCP-42-111	10/1/1999	25.3
WCP-43-016	10/11/1999	4.9
WCP-43-086	10/11/1999	14.0
WCP-43-116	10/11/1999	20.9
WCP-44-021	11/30/1999	21.6
WCP-44-086	11/30/1999	22.4
WCP-44-121	11/30/1999	18.1
WCP-45-016	10/5/1999	11.2
WCP-45-081	10/5/1999	16.4
WCP-45-121	10/5/1999	21.3
WCP-MW-046-021	12/2/1999	26.0
WCP-MW-046-091	12/2/1999	9.4
WCP-MW-046-116	12/2/1999	20.7
WCP-MW-047-016	1/15/2001	10.7
WCP-MW-047-076	1/15/2001	16.1/11.3
WCP-MW-047-126	1/15/2001	18.3
WCP-MW-083-016	1/22/2001	12.7
WCP-MW-083-091	1/22/2001	12.3
WCP-MW-083-111	1/22/2001	16.5
WCP-MW-084-016	1/24/2001	10.6
WCP-MW-084-086	1/24/2001	19.6
WCP-MW-084-116	1/24/2001	20.7
WCP-MW-085-021	1/8/2001	2.9
WCP-MW-085-086	1/8/2001	17.8
WCP-MW-085-121	1/8/2001	10.4
WCP-MW-086-016	1/10/2001	13.7
WCP-MW-086-071	1/10/2001	22.2
WCP-MW-086-086	1/10/2001	11.3
WCP-MW-086-126	1/10/2001	19.1
WCP-MW-087-016	1/26/2001	9.5/17.5
WCP-MW-087-081	1/26/2001	8.1
WCP-MW-088-016	1/30/2001	25.6
WCP-MW-088-081	1/30/2001	16.1/15.3
WCP-MW-088-121	1/30/2001	22.6
WCP-MW-089-016	2/1/2001	22.2
WCP-MW-089-081	2/1/2001	19.1
WCP-MW-089-116	2/1/2001	15.9
WCP-MW-089-126	2/1/2001	23.0
WCP-MW-090-016	1/17/2001	16.3
WCP-MW-090-086	1/18/2001	15.2
WCP-MW-092-016	7/16/2001	13.0

Sample ID	Sample Date	Percent Moisture
WCP-MW-093-016	7/24/2001	9.5
WCP-MW-093-076	7/24/2001	17.4
WCP-MW-093-121	7/24/2001	23.8
WCP-MW-093-126	7/24/2001	21.4/21.4
WCP-MW-094-021	7/18/2001	13.5
WCP-MW-094-081	7/18/2001	12.2
WCP-MW-094-126	7/18/2001	17.9
WCP-MW-095-016	7/5/2001	1.6/2.5
WCP-MW-095-091	7/5/2001	16.4
WCP-MW-095-111	7/5/2001	21.0
WCP-MW-095-56	7/5/2001	3.1
WCP-MW-097-016	7/2/2001	7.8
WCP-MW-097-086	7/2/2001	15.4/18.3
WCP-MW-098-021	7/10/2001	18.4
WCP-MW-098-056	7/10/2001	15.0
WCP-MW-098-086	7/10/2001	13.9
WCP-MW-098-121	7/10/2001	21.0
WCP-MW-099-026	11/14/2001	18.7
WCP-MW-099-071	11/14/2001	12.4
WCP-MW-099-116	11/14/2001	12.1
WCP-MW-202-021	12/4/2001	16.1
WCP-MW-202-081	12/4/2001	16.5/16.0
WCP-MW-203-021	12/17/2001	5.3
WCP-MW-203-056	12/17/2001	6.1/9.1
WCP-MW-203-111	12/17/2001	18.6
WCP-MW-204-016	11/28/2001	10.4
WCP-MW-204-056	11/28/2001	12.1
WCP-MW-204-096	11/28/2001	15.6
WCP-MW-204-116	11/28/2001	12.2
WCP-SB-048-121	6/14/2000	29.6
WCP-SB-048-161	6/14/2000	14.3
WCP-SB-048-196	6/15/2000	26.0
WCP-SB-048-221	6/15/2000	16.4
WCP-SB-048-241	6/16/2000	18.7
WCP-SB-048-276	6/16/2000	28.8
WCP-SB-048-301	6/17/2000	18.7/18.7
WCP-MW-201-016	11/30/2001	11.9
WCP-MW-201-076	11/30/2001	16
WCP-MW-201-121	11/30/2001	25
WCP-MW-201-126	11/30/2001	21.1

Notes:

All borings listed on Page 1 were drilled on the VW&R facility.

Two results indicate duplicate sample results.

Samples analyzed by Severn Trent Laboratories.