APPENDIX B

MONITORING WELL DEVELOPMENT FORMS

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
12-10-02/1115	6.15	512.4	15.5	550	/	/	0.0	CLOUDY, LOW TURBIDITY, NO ODOR
1118	6.00	553.3	15.8	>1100	/	/	1.5	BROWN, V. HIGHLY TURBID,
1122	6.08	596.5	16.0		/	/	3.0	SAME
1125	6.09	570.1	16.2		/	/	4.5	
1129	6.12	556.1	16.3		/	/	6.0	
1132	6.13	549.5	16.3		/	/	7.5	
1135	6.15	552.9	16.4		/	/	9.0	
1139	6.12	562.8	16.2		/	/	10.5	
1141	6.13	569.3	16.3		/	/	12.0	
1145	6.13	575.7	16.2		/	/	13.5	
1149	6.15	578.4	16.1		/	/	15.0	

Well Number MW-101

Date Well Installed 11-27-02

Static Water Level Below Reference Point 9.50

Screen Setting, Depth Feet Below Reference Point 8.1 to 18.1

Well Diameter (in.) 2

Estimated Yield ——— GPM

Measurement Reference Point: TOP OF PVC

Casing Stickup (ft): 2.22

Total Well Depth (D) (ft): 18.12

Initial Water Level (l) (ft): 9.50

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.3

Total Gallons Removed: 15.0

Well Volumes Removed: 11.5

NOTE: SLOW RECHARGE,
BAILED TO A W.L. = 14.05' FT (TOP OF PVC)

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-3-02/1017	6.53	2,136	13.0	>1100	/	/	0.0	HIGHLY TURBID, BROWN, NO ODOR
1022	6.28	2,347	14.3	>1100	/	/	2.0	SAME
1027	6.33	1,981	14.8	>1100	/	/	4.0	SAME
1046	6.38	1,729	13.6	>1100	/	/	6.0	SAME
1051	6.34	1,702	14.7	>1100	/	/	8.0	SAME
1056	6.37	1,593	14.8	>1100	/	/	10.0	SAME
1100	6.36	1,381	15.0	>1100	/	/	12.0	SAME
1106	6.41	1,318	14.7	>1100	/	/	14.0	SAME
1111	6.42	1,462	15.0	>1100	/	/	16.0	SAME
1117	6.41	1,335	15.0	>1100	/	/	18.0	SAME LESS TURBID
1125	6.36	1,223	15.0	>1100	/	/	20.0	SAME

Well Number MW-102

Date Well Installed 11-26-02

Static Water Level Below Reference Point 11.29 TOP OF PVC

Screen Setting, Depth Feet Below Reference Point 11.5 to 21.5

Well Diameter (in.) 2

Estimated Yield 1 GPM

Measurement Reference Point: ~~21.56~~ TOP OF PVC

Casing Stickup (ft): 2.37

Total Well Depth (D) (ft): ~~19.2~~ 21.51

Initial Water Level (l) (ft): 11.29

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.7

Total Gallons Removed: 20.0

Well Volumes Removed: 11.8

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-9-07/1146	5.95	849.7	16.3	>1100	/	/	0.0	BROWN, V. HIGHLY TURBID, NO ODOR
1149	6.05	856.8	16.1		/	/	1.5	SAME
1153	5.98	851.5	16.0		/	/	3.0	
1155	5.86	862.9	16.2		/	/	4.5	
1159	5.82	860.5	16.1		/	/	6.0	
1202	5.81	854.9	16.0		/	/	7.5	
1205	5.86	860.0	15.9		/	/	9.0	
1208	5.78	865.0	16.1		/	/	10.5	
1211	5.79	856.1	16.1		/	/	12.0	
1213	5.84	842.3	16.0		/	/	13.5	
1216	5.82	848.6	16.1		/	/	15.0	

Well Number MW-103

Date Well Installed 11-26-02

Static Water Level Below Reference Point 7.32

Screen Setting, Depth Feet Below Reference Point 5.5 to 15.5

Well Diameter (in.) 2

Estimated Yield — GPM

Measurement Reference Point: GROUND SURFACE

Casing Stickup (ft): 0.00

Total Well Depth (D) (ft): 15.5

Initial Water Level (l) (ft): 7.32 & 6.95 TOP OF PVC

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.3

Total Gallons Removed: 15.0

Well Volumes Removed: 11.5

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
1-10-02/0820	6.16	1,410	17.3	>1100	/	/	0.0	BROWN, V. HIGHLY TURBID, NO ODOR
0824	6.16	1,376	17.4		/	/	2.0	SAME
0828	6.24	1,468	17.4		/	/	4.0	
0832	6.24	1,536	17.2		/	/	6.0	
0836	6.25	1,769	16.4		/	/	8.0	
0841	6.24	1,781	16.2		/	/	10.0	
0845	6.21	1,636	17.0		/	/	12.0	
0849	6.24	1,847	16.5		/	/	14.0	
0853	6.17	1,541	17.4		/	/	16.0	LESS TURBID
0858	6.29	1,669	17.0		/	/	18.0	"
0901	6.22	1,674	17.2		/	/	20.0	"

Well Number MW-104

Date Well Installed 11-19-02

Static Water Level Below Reference Point 5.95

Screen Setting, Depth Feet Below Reference Point 8.7 to 18.7

Well Diameter (in.) 2

Estimated Yield ——— GPM

Measurement Reference Point: TOP OF PVC

Casing Stickup (ft): 2.01

Total Well Depth (D) (ft): 18.71

Initial Water Level (l) (ft): 5.95

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 2.0

Total Gallons Removed: 20.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-5-02 / 1324	4.93	3,719	16.9	445	/	/	0.0	LT. BR MOD. TURBID CLOUDY, SLIGHT PET ODOR,
1329	4.64	3,668	17.4	>1100	/	/	1.5	V. HIGHLY TURBID GAS OR DIRTY BROWN MOD.-STRONG PET. ODOR,
1332	4.74	3,656	17.2		/	/	3.0	SAME
1336	4.79	3,674	17.4		/	/	4.5	
1339	4.88	3,563	17.3		/	/	6.0	
1343	4.75	3,758	17.5		/	/	7.5	
1346	4.54	3,821	17.7		/	/	9.0	
1350	4.65	3,825	17.5		/	/	10.5	
1354	4.59	3,822	17.2		/	/	12.0	
1357	4.70	3,854	17.4		/	/	13.5	
1400	4.59	3,816	17.8		/	/	15.0	

Well Number MW-105

Date Well Installed 11-25-02

Static Water Level Below Reference Point 9.25 BGS 8.78' TOP OF PVC

Screen Setting, Depth Feet Below Reference Point 8.4 to 18.4

Well Diameter (in.) 2

Estimated Yield ——— GPM

Measurement Reference Point: GROUND SURFACE

Casing Stickup (ft): 0.00

Total Well Depth (D) (ft): 18.4

Initial Water Level (l) (ft): 9.25 BGS

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.5

Total Gallons Removed: 15.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
1-4-02/1054	4.87	2,718	16.3	>1100	/	/	0.0	BROWN, V. HIGHLY TURBID, SLIGHT ODOR (SOLVENT)
1056	4.78	2,614	16.8		/	/	1.6	SAME
1101	4.76	2,504	17.1		/	/	3.0	SAME
1104	4.77	2,374	17.4		/	/	5.0	SAME
1108	4.69	2,897	17.7		/	/	6.5	SAME
1111	4.70	2,494	17.5		/	/	8.0	SAME
1115	4.74	2,183	17.2		/	/	10.0	SAME
1120	4.75	2,010	17.2		/	/	11.5	SAME
1122	4.75	1,931	17.5		/	/	13.0	SAME
1125	4.74	2,025	17.5		/	/	15.0	SAME
1129	4.76	1,923	17.4		/	/	17.0	SAME

Well Number MW-106

Date Well Installed 11-25-02

Static Water Level Below Reference Point 6.02 BGS

Screen Setting, Depth Feet Below Reference Point 5.8 to 15.8

Well Diameter (in.) 2

Estimated Yield ——— GPM

CONST. DEPTH - 16.0 FT BGS
ACTUAL DEPTH = 15.8 FT BGS

Measurement Reference Point: GROUND SURFACE ~~15.8 BGS~~

Casing Stickup (ft): 0.0

Total Well Depth (D) (ft): 15.8 BGS

Initial Water Level (l) (ft): 6.02 BGS 5.60' TOP OF PVC

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.6

Total Gallons Removed: 19.0

Well Volumes Removed: 11.9

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-3-03/1415	3.84	2,127	16.9	>1100	/	/	0.0	BROWN, HIGHLY TURBID, SHEEN, STRONG SOLVENT ODOR
1420	3.89	1,842	16.3	>1100	/	/	1.5	SAME
1426	3.93	3,496	16.3	>1100	/	/	3.0	SAME NEARLY DRIED UP -- SLOW RECHARGE
1433	3.98	4,921	15.2	>1100	/	/	4.5	SAME
1441	3.92	6,053	15.1	>1100	/	/	6.0	SAME
1450	3.93	6,346	14.9	>1100	/	/	7.5	SAME LESS TURBID
1502	3.97	6,652	14.5	>1100	/	/	9.0	SAME
1511	3.97	7,696	15.0	>1100	/	/	10.5	SAME
1521	3.98	7,082	14.8	>1100	/	/	12.0	
1530	3.99	7,102	14.9	>1100	/	/	13.5	
1542	3.98	7,098	15.0	>1100	/	/	15.0	

ell Number MW-107

ate Well Installed 11-20-02

atic Water Level Below Reference Point 9.06

reen Setting, Depth Feet Below Reference Point 8.3 to 18.3

ell Diameter (in.) 2

timated Yield ——— GPM

Measurement Reference Point: ~~18.30~~ TOP OF PVC

Casing Stickup (ft): ~~2.31 (PVC)~~ 2.27

Total Well Depth (D) (ft): 18.27

Initial Water Level (l) (ft): 9.06

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.5

Total Gallons Removed: 15.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
25-04/1022	5.44	3,211	14.4	>1100	/	/	0.0	W/SHEEN, SLIGHT OILY ODOR (PET.) DK. BROWN (CHOC.) V. HIGHLY TURBID,
1027	5.33	3,811	15.3		/	/	2.0	SAME
1032	5.30	3,720	15.4		/	/	4.0	SAME
1036	5.32	3,589	15.2		/	/	6.0	SAME, BUT MOD OILY ODOR
1041	5.31	3,612	15.6		/	/	8.0	
1046	5.27	3,667	15.8		/	/	10.0	
1049	5.26	3,644	15.9		/	/	12.0	
1054	5.28	3,491	15.3		/	/	14.0	
1057	5.26	3,586	15.6		/	/	16.0	
1101	5.27	3,460	15.1		/	/	18.0	
1105	5.25	3,543	15.4		/	/	20.0	

Well Number MW-108

Date Well Installed 11-25-02

Static Water Level Below Reference Point 7.02

Screen Setting, Depth Feet Below Reference Point 7.2 to 17.2

Well Diameter (in.) 2

Estimated Yield 1.0 GPM

Measurement Reference Point: TOP OF PVC

Casing Stickup (ft): 2.31

Total Well Depth (D) (ft): 17.21

Initial Water Level (l) (ft): 7.02

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.7

Total Gallons Removed: 20.0

Well Volumes Removed: 11.8

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
12-4-02/1350	5.23	2,206	17.2	71100	/	/	0.0	OIL DROPLETS W/ SHEEN, MOD. PET. ODOR GRAY-BROWN, VERY HIGHLY TURBID, (OIL)
1357	5.06	2,208	17.8		/	/	1.5	SAME MOD. - STRONG PETI ODOR
1355	5.09	2,192	18.0		/	/	3.0	
1357	5.07	2,203	17.8		/	/	4.5	
1401	5.06	2,222	17.5		/	/	6.0	
1404	5.10	2,222	17.9		/	/	7.5	
1406	5.08	2,228	17.8		/	/	9.0	
1409	5.07	2,235	17.6		/	/	10.5	
1412	5.05	2,236	17.7		/	/	12.0	
1415	5.06	2,248	17.8		/	/	13.5	
1417	5.07	2,249	17.8		/	/	15.0	

Well Number MW-109

Date Well Installed 11-21-02

Static Water Level Below Reference Point 8.02 241 top of PVC

Screen Setting, Depth Feet Below Reference Point 7.4 to 17.4

Well Diameter (in.) 2

Estimated Yield 1.0 GPM

Measurement Reference Point: GROUND SURFACE

Casing Stickup (ft): 0.00

Total Well Depth (D) (ft): 17.4

Initial Water Level (l) (ft): 8.02

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.5

Total Gallons Removed: 15.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-9-05/1544	5.93	2,847	13.3	>1100	/	/	0.0	NO ODOR GRAY-BROWN, VI HIGHLY TURBID,
1549	6.11	2,598	14.2		/	/	1.5	SAME
1550	6.21	2,613	14.8		/	/	3.0	SAME
1554	6.25	2,701	14.8		/	/	4.5	
1556	6.25	2,700	14.6		/	/	6.0	
1600	6.25	2,701	14.4		/	/	7.5	
1605	6.27	2,739	14.2		/	/	9.0	
1609	6.26	2,747	14.1		/	/	10.5	
1612	6.24	2,702	14.3		/	/	12.0	
1615	6.22	2,720	15.0		/	/	13.5	
1619	6.22	2,686	14.8		/	/	15.0	

Well Number MW-110

Date Well Installed 11-19-02

Static Water Level Below Reference Point 6.65 6.78 TOP OF PVC

Screen Setting, Depth Feet Below Reference Point 5.3 to 15.3

Well Diameter (in.) 2

Estimated Yield 1.0 GPM

Measurement Reference Point: GROUND SURFACE

Casing Stickup (ft): 0.00

Total Well Depth (D) (ft): 15.3

Initial Water Level (l) (ft): 6.65

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.5

Total Gallons Removed: 15.0

Well Volumes Removed: 10.0

Monitoring Well [illegible]opment Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-5-02/0830	6.00	3,317	14.4	>1100	/	/	0.0	V. HIGHLY TURBID SHEEN ON H_2O SURFACE W/ OIL DROPLETS DK. GRAY-BRNOD. OIL ODOR (PET.)
0835	6.08	3,270	14.3		/	/	2.0	SAME
0839	6.06	3,272	15.3		/	/	4.0	SAME BUT STRONG OILY ODOR
0844	6.05	3,276	14.4		/	/	6.0	SAME
0849	6.02	3,279	15.6		/	/	8.0	SAME
0854	6.06	3,276	15.3		/	/	10.0	SAME
0857	5.99	3,265	15.9		/	/	12.0	SAME
0902	5.99	3,256	15.7		/	/	14.0	SAME
0905	6.00	3,274	15.7		/	/	16.0	SAME
0910	6.06	3,276	15.3		/	/	18.0	SAME
0912	6.05	3,265	15.7		/	/	20.0	SAME

/ell Number MW-111

ate Well Installed 11/20/02

atic Water Level Below Reference Point 7.34

:reen Setting, Depth Feet Below Reference Point 7.4 to 17.4

'ell Diameter (in.) 2

:timated Yield ——— GPM

Measurement Reference Point: TOP OF PVC

Casing Stickup (ft): 1.68

Total Well Depth (D) (ft): 17.38

Initial Water Level (l) (ft): 7.34

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.7

Total Gallons Removed: 20.0

Well Volumes Removed: 11.8

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
4-02/1302	5.67	913.1	19.2	310	/	/	0.0	LT. BROWN CLOUDY, SLIGHT ~~[illegible]~~ MOD. PET ~~[illegible]~~ ODOR,
1306	5.96	841.2	19.4	>1100	/	/	1.6	GRAY-BROWN, V. HIGHLY TURBID, SLIGHT ODOR
1311	6.09	1,051	20.1	>1100	/	/	3.5	SAME
1317	6.22	1,210	20.4	>1100	/	/	5.0	SAME
1321	6.28	1,299	20.3	>1100	/	/	6.6	SAME
1326	6.35	1,416	20.1	>1100	/	/	8.5	SAME
1333	6.35	1,553	20.1	>1100	/	/	10.0	SAME
1337	6.38	1,574	20.5	>1100	/	/	11.6	SAME
1341	6.37	1,542	20.4	>1100	/	/	13.5	SAME
1345	6.38	1,541	20.3	>1100	/	/	15.0	SAME
1350	6.39	1,552	20.4	>1100	/	/	16.5	SAME

Well Number MW-112

Date Well Installed 11-26-02

Static Water Level Below Reference Point 5.90 BGS

Screen Setting, Depth Feet Below Reference Point 6.4 to 16.4

Well Diameter (in.) 2

Estimated Yield ——— GPM

CONST. DEPTH - 16.4 FT BGS
ACTUAL DEPTH - 16.4 FT BGS

Measurement Reference Point: ~~[illegible]~~ GROUND SURFACE

Casing Stickup (ft): 0.00

Total Well Depth (D) (ft): 16.4

Initial Water Level (l) (ft): 5.96 BGS 5.39 TOP OF PVC

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.6

Total Gallons Removed: 16.5

Well Volumes Removed: 10.3

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
12-6-02/1049	5.82	6,270	13.3	>1100	/	/	0.0	SLIGHT-MOD. OLY ODOR DK. GRAY-BR, HIGHLY TURBID, SLIGHT OLY ODOR
1052	5.82	5,182	14.9		/	/	2.0	SAME SHEEN ON H_2O SURFACE
1053	5.81	5,252	16.1		/	/	4.0	MOD.-STRONG ODOR (OIL)
1054	5.76	5,029	16.4		/	/	6.0	SAME
1056	5.78	5,034	16.7	1100	/	/	8.0	SAME - LOW TURBIDITY
1058	5.76	4,907	16.5	340	/	/	10.0	CLOUDY STRONG OLY ODOR (PETR)
1100	5.80	4,866	16.5	150	/	/	12.0	SAME
1102	5.82	4,830	16.5	550	/	/	14.0	LOW TURBID
1105	5.82	4,806	16.6	750	/	/	16.0	
1107	5.81	4,841	16.6	250	/	/	18.0	
1109	5.80	4,812	16.9	700	/	/	20.0	

Well Number MW-113

Date Well Installed 11-21-02

Static Water Level Below Reference Point 11.02

Screen Setting, Depth Feet Below Reference Point 12.8 to 22.8

Well Diameter (in.) 2

Estimated Yield ~1.0 GPM

Measurement Reference Point: TOP OF PVC

Casing Stickup (ft): 2.45

Total Well Depth (D) (ft): 22.75

Initial Water Level (l) (ft): 11.02

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.9

Total Gallons Removed: 25.0

Well Volumes Removed: 13.2

AFTER 25.0 GAL - TURBIDITY (NTU) = 240

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
12-5-02/1456	4.49	3,536	17.7	620	/	/	0.0	CLOUDY - LT. BROWN, NO ODOR, TURBIDITY LOW-MOD.
1501	4.39	5,057	17.1	>1100	/	/	2.5	BROWN, V. HEAVY TURBID, NO ODOR
1505	4.27	5,018	16.8		/	/	5.0	SAME
1509	4.16	4,994	16.7		/	/	7.5	SAME SLIGHT ODOR (?) SOLVENT-ACID
1512	3.99	5,075	17.5		/	/	10.0	
1517	3.96	5,072	17.4		/	/	12.5	
1521	4.06	5,074	17.1		/	/	15.0	
1526	3.95	5,123	17.9		/	/	17.5	
1530	4.02	5,012	17.4		/	/	20.0	
1535	3.87	5,004	17.8		/	/	22.5	
1538	3.85	5,184	17.8		/	/	25.0	

Well Number MW-114

Date Well Installed 11-21-02

Static Water Level Below Reference Point 6.86

Screen Setting, Depth Feet Below Reference Point 12.5 to 22.5

Well Diameter (in.) 2

Estimated Yield 1.0 GPM

Measurement Reference Point: TOP OF PVC

Casing Stickup (ft): 2.29

Total Well Depth (D) (ft): 22.49

Initial Water Level (l) (ft): 6.86

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 2.5

Total Gallons Removed: 25.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2-4-07 / 0840	5.49	24,150	15.3	7/100	/	/	0.0	~1.0' PROD. ON SURFACE (REDDISH-BR) SMELL FUEL OIL ODOR, GRAY-BR H_2O, HIGHLY TURBID ODOR
0845	5.54	23,090	15.5		/	/	1.5	GRAY-BR, STRONG PET. ODOR, V HIGHLY TURBID
0849	5.55	23,170	15.8		/	/	3.0	SAME
0854	5.43	22,660	16.2		/	/	4.5	SAME
0859	5.41	22,490	15.9		/	/	6.0	SAME
0904	4.96	15,810	16.6		/	/	7.5	SAME
0910	5.20	21,090	16.3		/	/	9.0	SAME
0915	4.84	17,140	16.7		/	/	10.5	SAME
0921	4.79	16,340	16.8		/	/	11.0	SAME
0926	5.21	21,280	16.0		/	/	12.5	SAME
0934	5.07	19,350	15.9		/	/	14.0	SAME

Well Number MW-115

Date Well Installed 11/20/02

Static Water Level Below Reference Point 9.90

Screen Setting, Depth Feet Below Reference Point 8.1 to 18.1

Well Diameter (in.) 2

Estimated Yield ——— GPM

CONST. DEPTH - 160 FT. BGS.

NOTE: APPROX. 1.0 FT OF PROD. ON H_2O SURFACE.

Measurement Reference Point: ~~18.05~~ TOP OF PVC

Casing Stickup (ft): 2.29

Total Well Depth (D) (ft): 18.09

Initial Water Level (l) (ft): 9.90

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.4

Total Gallons Removed: 14.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
12-6-02/0804	6.48	885.0	7.8	711.00	/	/	0.0	BROWN, V. HIGHLY TURBID, NO ODOR
0825	6.55	999.4	18.0		/	/	1.5	SAME
0828	6.42	994.6	16.7		/	/	3.0	SAME
0832	6.41	972.4	16.8		/	/	4.5	SAME SLOW RECHARGE
0839	6.48	1,052	16.2		/	/	6.0	LESS TURBID
0848	6.49	1,083	16.2		/	/	7.5	SAME
0905	6.38	1,179	15.4		/	/	9.0	
0909	6.55	1,077	15.7		/	/	10.5	
0921	6.58	1,110	15.8		/	/	12.0	
0926	6.48	1,078	15.9		/	/	13.5	
0933	6.55	1,076	15.8		/	/	15.0	

Well Number MW-116

Date Well Installed 11-26-02

Static Water Level Below Reference Point 9.72

Screen Setting, Depth Feet Below Reference Point 8.8 to 18.8

Well Diameter (in.) 2

Estimated Yield ~~1.0~~ / GPM

NOTE: SLOW RECHARGE.

Measurement Reference Point: ~~TOP OF~~ PVC

Casing Stickup (ft): 1.86

Total Well Depth (D) (ft): 18.76

Initial Water Level (l) (ft): 9.72

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.5

Total Gallons Removed: 15.0

Well Volumes Removed: 10.0

Monitoring Well Development Data

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
12/2/02 1405	6.51	1,070	15.2	>1100	/	/	0	BROWN, V. HEAVILY TURBID NO ODOR
1417	6.66	1,072	15.2	>1100	/	/	2.0	SAME
1423	6.74	991.9	15.7	>1100	/	/	4.0	SAME
1427	6.72	946.6	15.9	>1100	/	/	6.0	SAME
1447	6.68	907.2	15.3	>1100	/	/	8.0	SAME
1452	6.71	861.9	15.9	>1100	/	/	10.0	SAME
1457	6.69	892.6	16.0	>1100	/	/	12.0	SAME
1502	6.71	852.1	16.1	>1100	/	/	14.0	SAME
1507	6.67	894.1	16.2	>1100	/	/	16.0	SAME
1510	6.70	853.2	16.3	>1100	/	/	18.0	SAME
1514	6.72	891.3	16.2		/	/	20.0	SAME

Well Number MW-117

Date Well Installed 11/19/02

Static Water Level Below Reference Point 5.34 BGS / 4.63 TOP OF PVC

Screen Setting, Depth Feet Below Reference Point 6.6 to 16.6

Well Diameter (in.) 2

Estimated Yield ——— GPM

Measurement Reference Point: ~~0.00~~ GROUND SURFACE

Casing Stickup (ft): 0.00

Total Well Depth (D) (ft): ~~16.6~~ 16.6 BGS

Initial Water Level (l) (ft): 5.34 BGS

Radius of well (r): 0.0833

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.163

Well Volume (gal): G x (D-l): 1.8

Total Gallons Removed: 20.0

Well Volumes Removed: 11.1

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
								* FLOATING SHEEN OBSERVED ON THE INITIAL 5 - GAL OF WATER REMOVED.
2/4/03 (1325)	6.64	0.546 mS/cm	15.8	999 OFF SCALE				PVC EW-L — STICKUP ADDED TO ~~[illegible]~~-5 NOW 2' 3 5/8" ABOVE GRADE TO TOP PVC.
2/4/03	6.30	0.593 mS/cm	15.1	999 OFF SCALE				— T.D. 19' 1.5" TO TOP PVC RISER
2/4/03	6.03	0.652 mS/cm	15.4	999 OFF SCALE				— PER WELL INSTALLATION LOG, T.D. = 17' BGS. MEASURED T.D. = 16.8' BGS
2/4/03	5.99	0.700 mS/cm	15.8	999 OFF SCALE				OCCLUSION = 0.2' = 2%
2/4/03	6.03	0.718 mS/cm	15.8	999 OFF SCALE				
2/4/03	6.05	0.730 mS/cm	15.7	999 OFF SCALE				
2/4/03	6.02	0.752 mS/cm	15.7	999 OFF SCALE				
2/4/03	6.09	0.774 mS/cm	15.8	999 OFF SCALE				
2/4/03	6.08	0.888 mS/cm	14.6	999 OFF SCALE				AFTER 40 GALLONS WERE REMOVED A PERIOD OF 1 HR 10 MIN ELAPSED BEFORE REMOVING THE FINAL 20 GALLONS. THIS TIME WAS NEEDED TO PUMP THE FULL DRUM INTO THE POLY HOLDING TANKS, + PUMP RJK'S DRUM.
2/4/03	6.08	0.787 mS/cm	14.6	999 OFF SCALE				
2/4/03	6.03	0.792 mS/cm	15.1	999 OFF SCALE				
2/4/03 (1545)	6.09	0.813 mS/cm	15.4	999 OFF SCALE				

SAMPLE

Well Number EWL-5

Date Well Installed 9/26/95

Static Water Level Below Reference Point 10.24' BELOW TOP OF PVC RISER

Screen Setting, Depth Feet Below Reference Point 7 to 17' BGS

Well Diameter (in.) 4

Estimated Yield _____ GPM

Measurement Reference Point: TOP PVC RISER

Casing Stickup (ft): 2.3'

Total Well Depth (D) (ft): 19.5'

Initial Water Level (l) (ft): 10.24

Radius of well (r): 2

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.653

Well Volume (gal): $G \times (D-l)$: 5.9

Total Gallons Removed: 60

Well Volumes Removed: 10.2

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2/3/03 1500	6.38	0.93 mS/cm	11.8	999+ OFF SCALE				PERCENT SCREEN OCCLUSION – WELL DEPTH ~16'; MEASURED T.D. = 15.35' TIC. SCREEN = 10' (16'-6') 6.5% (0.65')
2/3/03	6.36	0.93 mS/cm	12.9	55				
2/3/03	6.39	0.93 mS/cm	13.2	999+ OFF SCALE				
2/3/03	6.45	0.91 mS/cm	13.4	999+ OFF SCALE				
2/3/03	6.53	0.91 mS/cm	13.3	42				
2/3/03	6.44	0.93 mS/cm	13.3	999+ OFF SCALE				
2/3/03	6.45	0.92 mS/cm	13.9	48				
2/3/03	6.48	0.92 mS/cm	13.9	999				
2/3/03	6.53	0.931 mS/cm	13.4	999				
2/3/03	6.59	0.920 mS/cm	13.6	999				
2/3/03	6.49	0.916 mS/cm	13.3	602				
2/3/03 1625	6.52	0.917 mS/cm	13.1	691				

SAMPLE

Well Number EWL-6

Date Well Installed 9/25-9/27, 1995

Static Water Level Below Reference Point 7.40' TIC (PVC)

Screen Setting, Depth Feet Below Reference Point 6 to 16'

Well Diameter (in.) 4

Estimated Yield 0.5 GPM

Measurement Reference Point: TIC (PVC)

Casing Stickup (ft): NA/FLUSH MOUNT

Total Well Depth (D) (ft): 16'

Initial Water Level (l) (ft): 7.40

Radius of well (r): 2"

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.653

Well Volume (gal): G x (D-l): 5.62

Total Gallons Removed: 60

Well Volumes Removed: 10.7

Date/Time	pH (Standard Units)	Conductivity (µmhos/cm)	Temperature (°C)	Turbidity (ntu)	Redox Potential (mV)	Dissolved Oxygen (%)	Volume Evacuated (Gallons)	Comments
2/4/03 (0845)	4.45	13.7 Ms/cm	13.1	999 OFF SCALE				MEASURED T.D. = 18.5' TIC (PVC) NO OCCLUSION. TOP OF PVC TO GRADE ~ 0.5'; ∴ SAME AS WELL LOG
2/4/03	4.37	13.1 ms/cm	13.7	11				
2/4/03	4.25	14.8 ms/cm	13.3	11		2/4		BAILED DRY AFTER 14 GALLONS (0910) LET RECHARGE 10 MIN.
2/5/03 (0815) RDB 2/5/02	4.3	14.0 ms/cm	12.0	11		2/5		BAILED DRY AFTER ~15 GAL, LET (0923) RECHARGE
2/5/03	4.3	14 ms/cm	13	59				ON 2/5/03, BAILED DRY AFTER 12.5 GAL (0846), LET RECHARGE. 0910 RESUME DEVELOPMENT, RECHARGED ABOUT 2 GAL IN 0.5 HR. BAILED DRY AGAIN
2/5/03	4.15	11.6 ms/cm	10.6	51				AFTER ~3.5 GAL REMOVED (0920). 31 GAL TOTAL REMOVED
~~2/4/03~~	END DEVELOPMENT AT 31 GALLONS REMOVED							
~~2/4/03~~	BECAUSE OF SLOW RECHARGE; TIME							
~~2/4/03~~	CONSTRAINTS W/USEPA SPLIT TRIP SAMPLES							
~~2/4/03~~	TOMORROW							
~~2/4/03~~								
~~2/4/03~~								
~~2/4/03~~								
~~2/4/03~~								
~~2/4/03~~								
~~2/4/03~~								
~~2/4/02~~								

SAMPLE

Well Number SAL-3

Date Well Installed 9/25 - 9/29, 1995

Static Water Level Below Reference Point 6.05' TIC (PVC)

Screen Setting, Depth Feet Below Reference Point 18.5 to 8.5 (TIC) PVC

Well Diameter (in.) 4

Estimated Yield 0.07 GPM

Measurement Reference Point: TIC (PVC)

Casing Stickup (ft): NA/FLUSH

Total Well Depth (D) (ft): 18.5' TIC (PVC)

Initial Water Level (l) (ft): 6.05

Radius of well (r): 2"

Gallons per foot: ($G = \pi r^2 \times 7.48$): 0.653

Well Volume (gal): G x (D-l): 8.13

Total Gallons Removed: RDB 2/5/03 ~~82~~ 31

Well Volumes Removed: RDB 2/5/03 ~~10.1~~ 3.8