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2000 REMEDIAL ACTION ANNUAL REPORT

MEDLEY FARM NPL SITE
GAFFNEY, SOUTH CAROLINA

PREPARED FOR
THE MEDLEY FARM SITE STEERING COMMITTEE

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Acronyms

1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
DO	dissolved oxygen
DP	dual-phase
GWTS	groundwater recovery and treatment system
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
O&M	operations and maintenance
ORP	oxidation reduction potential
PCE	tetrachloroethene
PSV	performance standards verification
PSVP	performance standards verification plan
PVC	polyvinyl chloride
ROD	Record of Decision
SC DHEC	South Carolina Department of Health and Environmental Control
SOW	Statement of Work
SVE	soil vapor extraction
TCE	trichloroethene
TMM	Technical Maximization Measure
TOC	total organic carbon
USEPA	United States Environmental Protection Agency
VE	vapor extraction
VM	vacuum monitoring
VOCs	volatile organic compounds

Executive Summary

The annual report for the Medley Farm National Priorities List (NPL) Site provides a summary and evaluation of groundwater recovery and treatment activities conducted during the period from January 1, 2000 through December 31, 2000. The report also addresses comments received from South Carolina Department of Health and Environmental Control (SC DHEC) and the United States Environmental Protection Agency (USEPA) relating to sampling to evaluate natural attenuation conditions at the Medley Farm NPL Site, conducted in November 2000. Description of soil vapor extraction (SVE) treatment operations and performance is also included in this report.

Groundwater and soil remediation activities were first initiated in March 1995 at the site, and continue to the present day under the oversight of the USEPA, Region IV and the SC DHEC. The groundwater treatment system presently consists of a series of 11 jet-pump recovery wells, recently supplemented with three dual-phase (DP) recovery wells. The extracted groundwater is piped to a centrally located treatment plant, where volatile organic compounds (VOCs) are removed from the groundwater by a low-profile air stripper. Laboratory analysis of water samples collected from the treatment system's effluent sample tap indicates that the treatment system is removing VOCs to levels below the National Pollutant Discharge Elimination System (NPDES) permit limits and that the treatment system continues to meet the objectives of the remedial design.

The groundwater remediation system has recovered and treated approximately 74 million gallons of water. This has resulted in removal of approximately 218 pounds of VOCs from the aquifer since system start-up occurred in December 1995.

The soil remediation system consists of a series of nine SVE wells, three DP recovery wells, eight vapor monitoring wells, and a central vacuum unit. This system is designed to collect and remove VOCs from the affected vadose zone soils. Nearly 700 pounds of VOCs were removed from SVE Areas 1 and 2 by the SVE system. Soil cleanup targets were reached in 1999 for Areas 1 and 2, at which time SVE operations were terminated in June 2000. As of December 2000, an estimated total of 1,300 pounds of VOCs have been removed from SVE Area 3 by the SVE system. Thus, an estimated total of approximately 2,000 pounds of VOCs have been recovered from affected soils using the SVE treatment system since its startup in March 1995.

Three DP recovery wells and one vapor extraction (VE) well were installed in June 2000 to increase the rate of VOC recovery from the affected soil and groundwater within the deep saprolite and transition zone. These wells were constructed within the former source area of the plume. The DP wells incorporated a vacuum-enhanced pumping system where both soil vapor and groundwater could be removed from the subsurface. Operation of the DP wells began in November 2000. Soil vapor monitoring will be conducted during 2001 to provide data for quantification of VOCs recovered from these new wells.

The SVE system has been found to be much more effective in removal of VOCs from the subsurface. The SVE system has recovered 10 times more VOCs from the subsurface than the groundwater recovery system. The installation of the DP wells in the former source area will expedite remediation of the former source area by dewatering the saturated soils and recovering VOCs via the more effective remediation technology, SVE.

In October 2000, approximately 400 cubic feet of affected soil were removed from an area immediately adjacent to boring location PSVP-2-1. Elevated VOC concentrations were detected in this boring at an interval of 5 feet to 7 feet below ground surface during the 1999 confirmation soil sampling program. The soils from this interval were excavated and staged within a temporary stage area for analytical characterization. Representative samples of the soil were collected and submitted for VOC analysis. The concentration of VOCs in these soils were found to be below the performance standards verification plan (PSVP) standards. Once this was established, the soils were returned to the original excavation and compacted. Soil samples collected from the bottom of the excavation were found to contain VOC concentrations at levels well below the remediation goals established for soil. Thus, remediation of soils in SVE Areas 1 and 2 is complete.

A site-wide groundwater sampling event was conducted in December 2000 to redefine the plume delineation and to evaluate the overall performance of the groundwater recovery and SVE systems. During this sampling event, samples were collected from monitoring wells and recovery wells. In addition to VOC analysis, select samples were analyzed for indicator parameters to evaluate the potential for natural attenuation of VOCs in the subsurface at the site. Results of the assessment of natural attenuation potential of chlorinated VOCs indicate that under the present pumping conditions, degradation of VOCs is limited, and is probably not a major contributor to the attenuation of VOCs in groundwater at the site at this time. However, it is possible that conditions conducive for aerobic biodegradation could be established at the site once SVE is discontinued and soil moisture is re-established.

VOCs were detected at elevated levels in the groundwater samples collected from monitoring well SW-3 in December 1994. Since start-up of the groundwater recovery system, this well has been dry. Results from the revised groundwater model indicate that capture of groundwater from this area may be incomplete. To determine if VOCs remain in the groundwater at elevated levels in this area, a new monitoring well is proposed.

RMT will continue to facilitate the recovery of VOCs from the aquifer by conducting pulse pumping of the groundwater recovery system. Periodically, the A-system will be shutdown to minimize zones of hydrodynamic isolation at the site. RMT has determined that the elevated concentrations of VOCs along the B-system wells warrant continuous operation of these recovery wells. A revised schedule for system shutdown and startup is proposed. Installation of the DP recovery wells and continuation of the pulse-pumping activities constitute Technical Maximization Measures (TMMs) as described in the Statement of Work (SOW) for the Medley Farm NPL Site. RMT will continue to make adjustments to the recovery well flow rates and the treatment system to optimize groundwater recovery and treatment operations.

Section 1
Introduction

1.1 Background

Groundwater and soil remediation activities were initiated at the Medley Farm NPL Site in March 1995. Treatment system startup followed final inspection and approval of the constructed systems by USEPA Region IV and SC DHEC officials. Startup of the Medley Farm NPL Site treatment system signaled the culmination of more than 12 years of site investigation, detailed design, and construction work. Site treatment systems have now been effectively removing and treating VOCs from affected groundwater and soils for almost 6 years.

Groundwater is extracted from the subsurface of the Medley Farm NPL Site by a system of 11 jet-pump recovery wells and three DP (water and vapor) recovery wells. VOCs are removed from the water by a low-profile air stripper. Treated groundwater is discharged to Jones Creek through a NPDES-permitted outfall. Volatile compounds that are stripped from the groundwater are discharged directly to the atmosphere.

VOCs present in affected vadose-zone soils have been removed through a series of eight SVE wells. To enhance the recovery of soil vapors from the subsurface, the existing soil vapor monitoring wells were converted to recovery wells and connected to the VE system in 1998, bringing the total number of SVE points to 24. An additional SVE well was installed in Area 3 in June 2000. A rotary-lobe vacuum pump is used to extract the VOC–affected soil gas, which is then discharged directly to the atmosphere in accordance with SC DHEC requirements. Details regarding the newly installed DP wells and the additional SVE well are provided in this report.

There are four VOCs of primary concern at the NPL Site: 1,1-dichloroethene (1,1-DCE), trichloroethene (TCE), 1,2-dichloroethane (1,2-DCA), and tetrachloroethene (PCE). These compounds are regulated as air toxics by the State of South Carolina. The SVE unit and air stripper are the only pieces of treatment equipment that emit VOCs to the atmosphere at the Medley Farm NPL Site. The mass of the VOCs emitted to the atmosphere from the stripper and SVE unit fall well below the *de minimis* threshold of South Carolina Regulation R.61-62.1. This was confirmed during a stack test performed in 1995, shortly after the system went on-line. The Medley Farm NPL Site is, therefore, exempt from State air permitting requirements.

Monitoring, evaluation, and reporting requirements for these treatment systems are addressed in the *Medley Farm Site Performance Standards Verification Plan* (RMT, August 1993). In accordance with the PSVP, an annual assessment report is required to provide a detailed summary and evaluation of groundwater extraction and treatment activities conducted during each calendar year. The current report covers the period from January 2000 through December 2000.

1.2 Purpose

The purpose of this 2000 annual report is as follows:

- Demonstrate the effects of the groundwater recovery system on the water table.
- Assess whether the concentration and shape of the groundwater plume is changing with time.
- Assess whether the current groundwater recovery system is sufficient to achieve remedial action goals stated in the original design.
- Determine if the groundwater treatment system is achieving remedial action goals stated in the original design.
- Assess whether implementation of a technical maximization measure (*i.e.*, pulse pumping and DP recovery) has enhanced the recovery of VOCs that remain in the aquifer.
- Evaluate data to determine if remedial action goals have been achieved.
- Assess the appropriateness of the remedial action goals.
- Propose modifications, where needed, to improve system performance.
- Estimate the VOC mass removed to date by the SVE system.

1.3 Scope

The scope of this report includes the following items:

- Update the model capture zones associated with groundwater recovery wells based on new site data acquired during DP well installation.
- Provide concentration versus time plots for VOCs in monitoring wells.
- Develop VOC isoconcentration maps to delineate the VOC plume.
- Evaluate the performance of the treatment system.
- Estimate the mass of VOCs removed and the rate of VOCs removal from the vadose zone and the aquifer.
- Evaluate the performance of the technical maximization measures performed to date.
- Evaluate the effectiveness of future SVE operations in removing source material.

Section 2
Site Geology and Site Hydrogeology

2.1 Site Geology

The geologic characterization of the Medley Farm NPL Site as presented in the 1995 annual report remains generally unchanged. Drilling conducted during installation of the DP wells in 2000 and the PSVP borings in 1999 has allowed refinement of the top of rock surface map, particularly in the source area. However, the geologic characterization remains generally unaffected. The site geology remains a controlling factor on the direction of contaminant migration. Significant components of the geologic control include the following:

- A fault located southeast and downgradient from the recovery wells.
- The fault strikes N50E, dips 70 degrees to the southeast, and is generally parallel to layering in the metamorphosed volcanic and sedimentary rocks that comprise bedrock beneath the site. The revised top of rock map (Plate 1) shows the position of the fault.
- The metamorphic rocks northwest of the fault are felsic (light-colored and enriched in Si, Al, Na), whereas those southeast of the fault are mafic (dark-colored and enriched in Ca, Fe, and Mg).
- Reverse (down to the northwest) and right-lateral movement along the fault are indicated by surface geologic mapping and the shape of the top of the bedrock surface map (RMT 1995 Annual Report).
- Differential weathering within the felsic metavolcanic and metasedimentary layers is indicated from surface and subsurface geologic data. As a result, northeast-striking troughs and ridges in the top of transition zone and bedrock are likely to be present.

2.2 Site Hydrogeology

The hydrogeology of the Medley Farm NPL Site has been previously described and reported in the annual reports submitted from 1995 through 1999. A hydrogeologic conceptual model was presented in each of those reports. The purpose of this subsection is to briefly describe site hydrogeologic conditions over the past year resulting from ongoing remediation activities.

Groundwater at the Medley Farm NPL Site occurs in the saprolite, in a zone of highly fractured and weathered bedrock (identified as the transition zone), and in the fractured bedrock found immediately below the transition zone. The saprolite, transition zone, and shallow bedrock are hydraulically interconnected; therefore, these three hydrostratigraphic units comprise what is considered a single aquifer beneath the site.

Groundwater elevations have been measured during 2000 in the site groundwater monitoring wells, groundwater recovery wells, and piezometers on site. The 2000 groundwater elevation data are provided on Table 2-1. The groundwater elevations recorded from 1999 through 2000 have been plotted and the resulting hydrographs (see Appendix A) illustrate the variability of water levels measured during the intermittent periods of operating the groundwater recovery system. Corresponding peaks and valleys are observed in the hydrographs of the recovery wells and monitoring wells as a result of system shutdown and startup.

The water elevation data were also used to determine the direction of groundwater flow. Plate 2 illustrates the water table at the site, as observed in February, June, September, and December 2000. The water table configuration observed in all four events indicate the cone of depression created when both the A-recovery system and B-recovery system are operating. The water table configuration in December also exhibits influence from operation of the DP wells. The number of days of system operation prior to measurement of the water levels is noted on the plate.

The water table map was generated using the water elevations measured within the pumping wells. Water elevations within the aquifer will likely be somewhat higher than those observed within the pumping wells while the recovery system is operating as a result of head losses due to well inefficiencies inherent with pumping wells. The groundwater recovery system continues to effectively dewater the saprolite zone, as evidenced by the data collected from monitoring wells SW-3, SW-4, SW-103, SW-108, SW-109, SW-201, and MLW-1-4. The DP monitoring wells have lowered the water table significantly in SVE Areas 2 and 3, after operating for only two months.

Table 2-1
Summary of 2000 Groundwater Elevation Data

WELL NO.	BOTTOM OF WELL SCREEN	TOP OF CASING ELEV.	WATER ELEV. 02/29/2000	WATER ELEV. 06/26/2000	WATER ELEV. 08/03/2000	WATER ELEV. 08/21/2000	WATER ELEV. 09/22/2000	WATER ELEV. 10/26/2000	WATER ELEV. 11/27/2000	WATER ELEV. 12/18/2000
A-1	539.09	651.73	570.92	571.60	577.26	572.29	569.80	572.33	570.25	569.75
A-2	524.19	643.31	561.04	558.14	573.39	566.58	557.52	561.32	564.32	558.21
A-3	506.77	604.67	539.35	510.22	574.46	557.15	510.26	510.21	562.81	510.22
A-4	530.08	618.09	558.17	536.34	589.51	536.39	536.45	536.34	566.64	536.24
A-5	467.36	603.21	566.29	548.96	575.61	554.65	545.44	545.86	565.70	548.12
A-6	484.31	632.09	555.53	566.61	576.79	557.88	550.59	552.46	561.79	550.79
A-7	485.50	605.10	551.21	541.48	576.95	539.78	539.94	536.27	561.83	542.61
B-1	513.39	660.55	545.17	554.06	570.63	565.82	543.46	567.17	541.60	546.25
B-2	515.51	661.56	566.65	567.48	574.07	570.09	564.15	569.87	563.96	564.56
B-3	509.84	661.84	570.99	572.69	577.64	574.66	569.50	574.51	561.42	567.36
B-4	513.78	665.81	562.84	567.28	579.37	573.06	563.24	576.24	555.30	561.62
DP-2-1		677.84	NM	NM	594.31	591.34	588.75	592.89	DRY	NM
DP-3-1		665.78	NM	NM	577.92	574.85	569.30	575.53	DRY	NM
DP-3-2		672.83	NM	NM	578.33	575.28	569.71	577.25	DRY	NM
SW-1	629.26	690.47	638.28	638.32	638.17	637.45	637.28	637.67	636.83	637.12
BW-1	NS	689.90	638.43	638.33	637.93	637.55	637.34	637.12	636.92	636.80
BW-2	NS	662.99	DRY	576.76	576.68	576.59	576.60	576.55	576.59	576.68
SW-3	592.90	671.56	DRY	DRY	DRY	DRY	DRY	DRY	592.83	DRY
BW-3	NS	574.82	568.29	567.18	567.18	566.85	567.28	567.51	567.66	567.85
SW-4	600.38	671.39	599.26	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BW-4	NS	564.32	558.81	557.57	557.75	557.22	557.82	558.11	558.57	559.08

Elevations are reported in feet above Mean Sea Level (MSL).

Table 2-1
Summary of 2000 Groundwater Elevation Data

WELL NO.	BOTTOM OF WELL SCREEN	TOP OF CASING ELEV.	WATER ELEV. 02/29/2000	WATER ELEV. 06/26/2000	WATER ELEV. 08/03/2000	WATER ELEV. 08/21/2000	WATER ELEV. 09/22/2000	WATER ELEV. 10/26/2000	WATER ELEV. 11/27/2000	WATER ELEV. 12/18/2000
SW-101	567.30	604.18	573.81	570.18	570.33	569.56	570.10	570.21	570.92	570.59
SW-102	568.85	620.07	576.99	575.46	574.94	574.71	574.37	574.22	574.29	574.42
SW-103	588.40	635.68	588.45	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SW-104	612.46	649.85	616.61	616.41	614.64	614.50	DRY	DRY	DRY	DRY
BW-105	558.57	671.55	595.48	593.73	596.68	594.93	592.67	593.70	586.00	586.60
SW-106	571.91	596.12	579.88	577.85	577.22	576.92	576.26	576.10	575.84	576.06
BW-106	NS	595.76	578.62	570.84	574.82	571.50	568.27	570.79	568.35	573.85
SW-108	583.66	605.28	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BW-108	NS	605.64	577.51	572.11	580.72	575.81	571.75	575.72	572.13	570.87
SW-109	598.65	661.26	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BW-109	NS	661.47	571.86	573.78	578.79	575.83	571.06	575.68	DRY	DRY
BW-110	NS	626.36	576.89	575.09	574.73	574.60	574.31	574.88	574.03	574.11
SW-201	UK	620.68	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BW-201	UK	618.29	572.00	566.45	578.23	570.60	564.11	568.28	569.76	563.66
SW-202	596.86	636.93	595.75	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BW-202	561.36	636.79	599.76	596.11	598.56	596.47	595.07	596.33	592.53	592.91
MLW-1-1	454.71	653.32	565.29	564.30	569.65	567.15	561.57	566.18	563.62	560.55
MLW-1-2	501.21	653.32	564.11	564.53	569.33	567.83	561.23	566.83	562.74	560.05
MLW-1-3	529.71	653.32	565.52	567.34	571.05	566.24	563.40	566.53	562.83	562.24
MLW-1-4	577.18	653.32	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MLW-3-1	439.26	636.68	562.88	563.50	571.72	565.32	555.93	561.93	563.48	553.61
MLW-3-2	492.76	636.68	561.04	562.94	570.06	561.02	553.52	556.47	562.05	551.47
MLW-3-3	513.26	636.68	562.41	564.71	571.73	562.34	554.98	557.82	563.36	552.93
MLW-3-4	563.76	636.68	566.09	564.84	572.99	568.16	562.86	564.95	565.23	DRY
MW-2-1	450.93	602.8	564.84	552.29	532.20	544.02	532.51	552.05	554.90	518.68
MW-2-2	513.22	602.42	564.91	563.14	575.34	568.84	560.69	563.45	568.93	562.69
MW-4-1	525.41	644.8	564.53	558.23	553.28	556.18	548.45	556.98	558.73	538.62
MW-4-2	558.27	644.6	564.36	563.67	573.85	567.56	562.71	565.46	566.08	562.59
PZ-1	560.30	575.41	568.23	567.09	566.94	566.64	567.11	567.23	567.53	567.77
PZ-101	627.04	688.49	633.63	633.48	633.27	633.15	632.98	633.11	NM	632.61

Elevations are reported in feet above Mean Sea Level (MSL).

Table 2-1
Summary of 2000 Groundwater Elevation Data

WELL NO	TOP OF CASING ELEV	Bottom FBTC	WATER LEVEL 02/22/2001	WATER ELEV 02/22/2001	WATER LEVEL 03/16/2001	WATER ELEV 03/16/2001	WATER LEVEL 04/20/2001	WATER ELEV 04/20/2001
A-1	651.73	112.64	82.36	569.37	82.00	569.73	78.78	572.95
A-2	643.31	119.12	86.79	556.52	84.94	558.37	72.72	570.59
A-3	604.67	97.9	94.50	510.17	94.50	510.17	33.26	571.41
A-4	618.09	88.01	81.81	536.28	81.78	536.31	30.73	587.36
A-5	603.21	135.85	58.00	545.21	50.15	553.06	31.13	572.08
A-6	632.09	147.78	85.29	546.80	83.03	549.06	58.83	573.26
A-7	605.10	119.6	63.95	541.15	62.65	542.45	32.15	572.95
B-1	660.55	147.16	112.09	548.46	110.09	550.46	119.05	541.50
B-2	661.56	146.05	98.81	562.75	97.75	563.81	100.04	561.52
B-3	661.84	152	102.90	558.94	103.67	558.17	96.13	565.71
B-4	665.81	152.03	111.60	554.21	112.10	553.71	111.95	553.86
SW-1	690.47	61.21	54.00	636.47	53.15	637.32	53.78	636.69
BW-1	689.90	No Screen	53.45	636.45	53.37	636.53	53.00	636.90
BW-2	662.99	No Screen	86.50	576.49	86.30	576.69	86.29	576.70
SW-3	671.56	78.66	DRY	DRY	DRY	DRY	DRY	DRY
BW-3	574.82	No Screen	6.78	568.04	6.42	568.40	6.90	567.92
SW-4	671.39	71.01	DRY	DRY	DRY	DRY	DRY	DRY
BW-4	564.32	No Screen	5.55	558.77	4.90	559.42	5.98	558.34
SW-101	604.18	36.88	31.84	572.34	31.47	572.71	32.93	571.25
SW-102	620.07	51.22	45.12	574.95	44.58	575.49	43.84	576.23
SW-103	635.68	47.28	DRY	DRY	DRY	DRY	DRY	DRY
SW-104	649.85	37.39	DRY	DRY	DRY	DRY	DRY	DRY
BW-105	671.55	112.98	87.92	583.63	88.90	582.65	78.79	592.76
SW-106	596.12	24.21	19.58	576.54	18.50	577.62	17.25	578.87
BW-106	595.76	No Screen	20.19	575.57	17.15	578.61	26.24	569.52
SW-108	605.28	21.62	DRY	DRY	DRY	DRY	DRY	DRY
BW-108	605.64	No Screen	38.17	567.47	34.88	570.76	29.28	576.36
SW-109	661.26	62.61	DRY	DRY	DRY	DRY	DRY	DRY
BW-109	661.47	No Screen	DRY	DRY	DRY	DRY	DRY	DRY
BW-110	626.36	No Screen	51.91	574.45	51.50	574.86	50.54	575.82
SW-201	620.68		DRY	DRY	DRY	DRY	DRY	DRY
BW-201	618.29		57.59	560.70	54.93	563.36	43.78	574.51
SW-202	636.93	40.07	DRY	DRY	DRY	DRY	DRY	DRY
BW-202	636.79	75.43	44.69	592.10	43.14	593.65	38.78	598.01
MLW-1-1	653.32	198.61	--	560.83	--	561.77	--	565.53
MLW-1-2	653.32	152.11	--	560.69	--	561.52	--	563.58
MLW-1-3	653.32	123.61	--	562.07	--	562.51	--	566.20
MLW-1-4	653.32	76.14	--	577.56	--	577.16	--	577.77
MLW-3-1	636.68	197.42	--	552.42	--	553.20	--	569.94
MLW-3-2	636.68	143.92	--	550.04	--	551.89	--	569.75
MLW-3-3	636.68	123.42	--	551.47	--	553.22	--	571.18
MLW-3-4	636.68	72.92	--	562.97	--	562.59	--	570.35
MW-2-1	602.8		54.85	547.95	52.65	550.15	67.48	535.32
MW-2-2	602.42		42.27	560.15	38.23	564.19	30.39	572.03
MW-4-1	644.8		92.02	552.78	90.13	554.67	98.43	546.37
MW-4-2	644.6		82.71	561.89	82.25	562.35	74.07	570.53
PZ-1	575.41	15.11	7.35	568.06	6.60	568.81	DRY	DRY
PZ-101	688.49	61.45	55.90	632.59	55.36	633.13	56.87	631.62

Table 2-1
Summary of 2000 Groundwater Elevation Data

WELL NO.	WATER LEVEL 04/30/2001	WATER ELEV. 04/30/2001	WATER LEVEL 06/05/2001	WATER ELEV. 06/05/2001
A-1	80.75	570.98	82.30	569.43
A-2	85.25	558.06	85.39	557.92
A-3	94.46	510.21	94.35	510.32
A-4	81.82	536.27	81.87	536.22
A-5	60.65	542.56	55.41	547.80
A-6	85.07	547.02	83.82	548.27
A-7	69.27	535.83	62.30	542.80
B-1	93.52	567.03	111.25	549.30
B-2	92.45	569.11	97.80	563.76
B-3	94.08	567.76	96.71	565.13
B-4	97.71	568.10	105.03	560.78
SW-1	53.63	636.84	51.10	639.37
BW-1	53.05	636.85	52.56	637.34
BW-2	DRY	DRY	DRY	DRY
SW-3	DRY	DRY	DRY	DRY
BW-3	6.89	567.93	7.30	567.52
SW-4	DRY	DRY	DRY	DRY
BW-4	7.95	556.37	6.33	557.99
SW-101	33.10	571.08	33.68	570.50
SW-102	44.15	575.92	45.10	574.97
SW-103	DRY	DRY	DRY	DRY
SW-104	DRY	DRY	DRY	DRY
BW-105	80.89	590.66	82.66	588.89
SW-106	17.62	578.50	19.08	577.04
BW-106	25.56	570.20	28.35	567.41
SW-108	DRY	DRY	DRY	DRY
BW-108	34.66	570.98	37.30	568.34
SW-109	DRY	DRY	DRY	DRY
BW-109	DRY	DRY	DRY	DRY
BW-110	50.90	575.46	51.74	574.62
SW-201	DRY	DRY	DRY	DRY
BW-201	54.95	563.34	56.40	561.89
SW-202	DRY	DRY	DRY	DRY
BW-202	41.28	595.51	43.68	593.11
MLW-1-1	--	564.45	--	561.05
MLW-1-2	--	566.03	--	560.92
MLW-1-3	--	565.66	--	562.69
MLW-1-4	--	577.76	--	577.43
MLW-3-1	--	555.32	--	548.75
MLW-3-2	--	551.49	--	551.40
MLW-3-3	--	552.93	--	552.83
MLW-3-4	--	563.19	--	562.84
MW-2-1	60.06	542.74	68.41	534.39
MW-2-2	42.82	559.60	40.29	562.13
MW-4-1	94.57	550.23	97.05	547.75
MW-4-2	81.53	563.07	82.46	562.14
PZ-1	7.62	567.79	8.03	567.38
PZ-101	56.84	631.65	56.57	631.92

Section 3
Recovery System Operation and Performance

The groundwater recovery and treatment system (GWTS) and the SVE system at the Medley Farm NPL Site have been in operation for nearly six years. The GWTS has recovered and treated approximately 74 million gallons of groundwater, and the SVE system has recovered over 2,000 pounds of VOCs during that time. This section presents a discussion of the following:

- Modifications to the SVE and groundwater recovery systems conducted in 2000
- System operation, maintenance, and repairs in 2000

A summary of monthly GWTS flow is presented in Table 3-1 for the years 1995 through 2000. A chronological summary of operation and maintenance activities for the A- and B-groundwater recovery systems is shown in Table 3-2.

3.1 Modifications to Soil Vapor Extraction and Groundwater Recovery System

Modifications to the Medley Farm NPL Site remediation system have recently been completed to enhance the rate of VOC recovery from the subsurface. As described in the 1999 five-year report, PSVP standards for soils were achieved in SVE Areas 1 and 2. Subsequently, following USEPA approval, SVE operations were terminated in Areas 1 and 2 in June 2000.

Also in June 2000, two DP recovery wells and one VE well were installed in SVE Area 3, and one DP well was installed in SVE Area 2 to recover both groundwater and soil vapor. The application of a vacuum to the DP wells enhances the performance of the wells by increasing the net effective drawdown. As a result, the zone of groundwater capture is increased and the formerly saturated soils become unsaturated and are then subjected to SVE. The recovery of VOCs from the subsurface has been shown to occur at a faster rate via vapor extraction than recovery of groundwater. Thus, installation of the DP recovery wells in the former source area is expected to have a significant effect on remediating the remaining affected soils.

The DP wells were constructed to an approximate depth of 20 feet into competent bedrock and were screened from the base of the well to the approximate level of the 1995 static water table. An electric submersible well pump was installed at the bottom of each well to recover groundwater. Installation of submersible pumps, power supplies, system controls, and piping

was completed in November 2000. Groundwater and vapor recovery from the DP wells began shortly thereafter. The recovered groundwater is collected and discharged to the existing groundwater treatment system. The outer casing of each well is connected to the SVE system's vacuum manifold to recover soil vapor.

Well construction diagrams for the three DP recovery wells and the new SVE well are also provided in Appendix B. The locations of each of these new treatment wells are shown on Figure 3-1. The rationale for the location of each new well was based on the results of the 1999 PSVP sampling. The locations were agreed to by USEPA and SC DHEC in previous correspondence.

3.2 Operation of Soil Vapor Extraction System

Historically, the SVE system recovered VOCs from affected soils at three SVE treatment areas, as delineated in the USEPA's Record of Decision (ROD) for the site (shown on Figure 3-1). Soil cleanup targets were reached in 1999 for Areas 1 and 2; therefore, SVE operations ceased in Areas 1 and 2 in June 2000. SVE operations continued in Area 3 during 2000. In Area 3, the SVE system originally consisted of three VE wells and four vacuum monitoring (VM) wells. Three additional wells (DP3-1, DP3-2 and VE-304) used for VE were brought online in November 2000.

During 2000, the system operated on a 12-hour per day cycle. Most of the system shutdowns were scheduled as part of sampling and drilling activities. Several minor electrical problems resulted in some unscheduled downtime. A chronological summary of the SVE-related operations and maintenance (O&M) activities is presented in Table 3-2.

3.3 Operations of Groundwater Recovery System

The GWTS continued the trend of reliable operation in 2000. Recovery system operating statistics are as follows:

- A-System
  - 218 full days of operation.
  - 25 partial days of operation.
  - 123 days off.
  - Approximately 6.6 million gallons of water recovered.

- B-System
  - 280 full days of operation.
  - 21 partial days of operation.
  - 65 days off.
  - Approximately 3.1 million gallons of water recovered.

There were nine short periods of unscheduled system shutdowns that resulted from electric utility interruptions or system failures. In addition, the A-system was shut down for planned periods as part of the ongoing TMMs being implemented at the site. System operation and cumulative groundwater recovery data are presented graphically in Figure 3-2. Repairs were limited to the following:

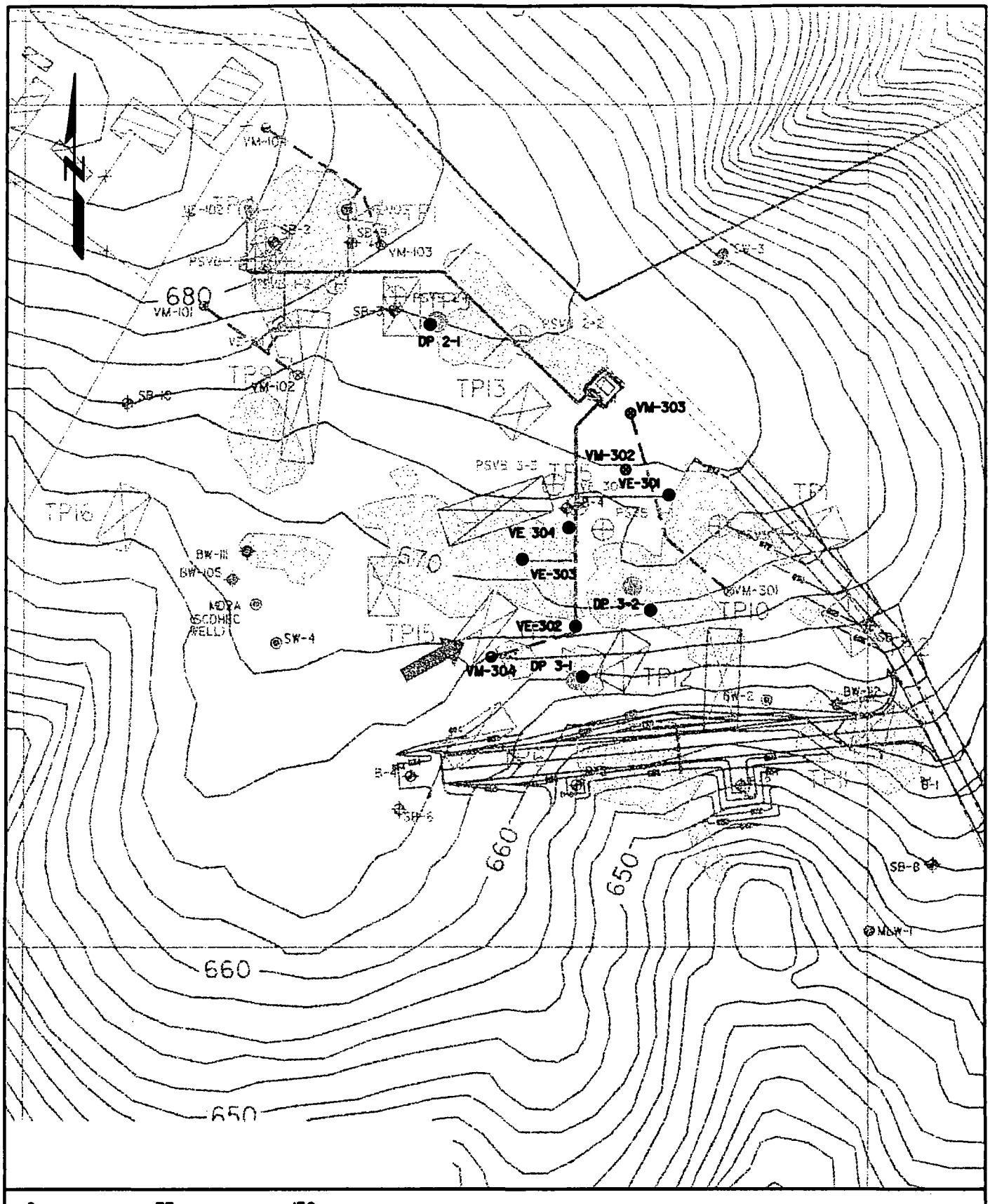
- Computer video card replaced in January 2000.
- Repaired A-system 8-inch trunk line in March.
- Repaired line in A-6 well vault in June.
- Replaced P-200 power feed in June.
- Repaired leak in B-system in November.

A chronological summary of the O&M activities is presented in Table 3-2.

3.4 Technical Maximization Measures

As a continuation of the TMM started in 1998, the A-system was intermittently shut down during 2000. The purpose of operating the A-system intermittently was to potentially disrupt the primary flow paths that would likely have been established within the aquifer and to induce constituent movement through secondary or tertiary flow paths as suggested by USEPA. The B-system was operated continuously (except for unplanned shutdowns) to maximize the recovery of VOCs from the B wells.

The installation of the DP recovery wells in the former source area constitutes an additional TMM. During 2001, data will be collected which will allow evaluation of the effectiveness of this most recent TMM.



0 75 150

SCALE IN FEET

FIGURE 3-1

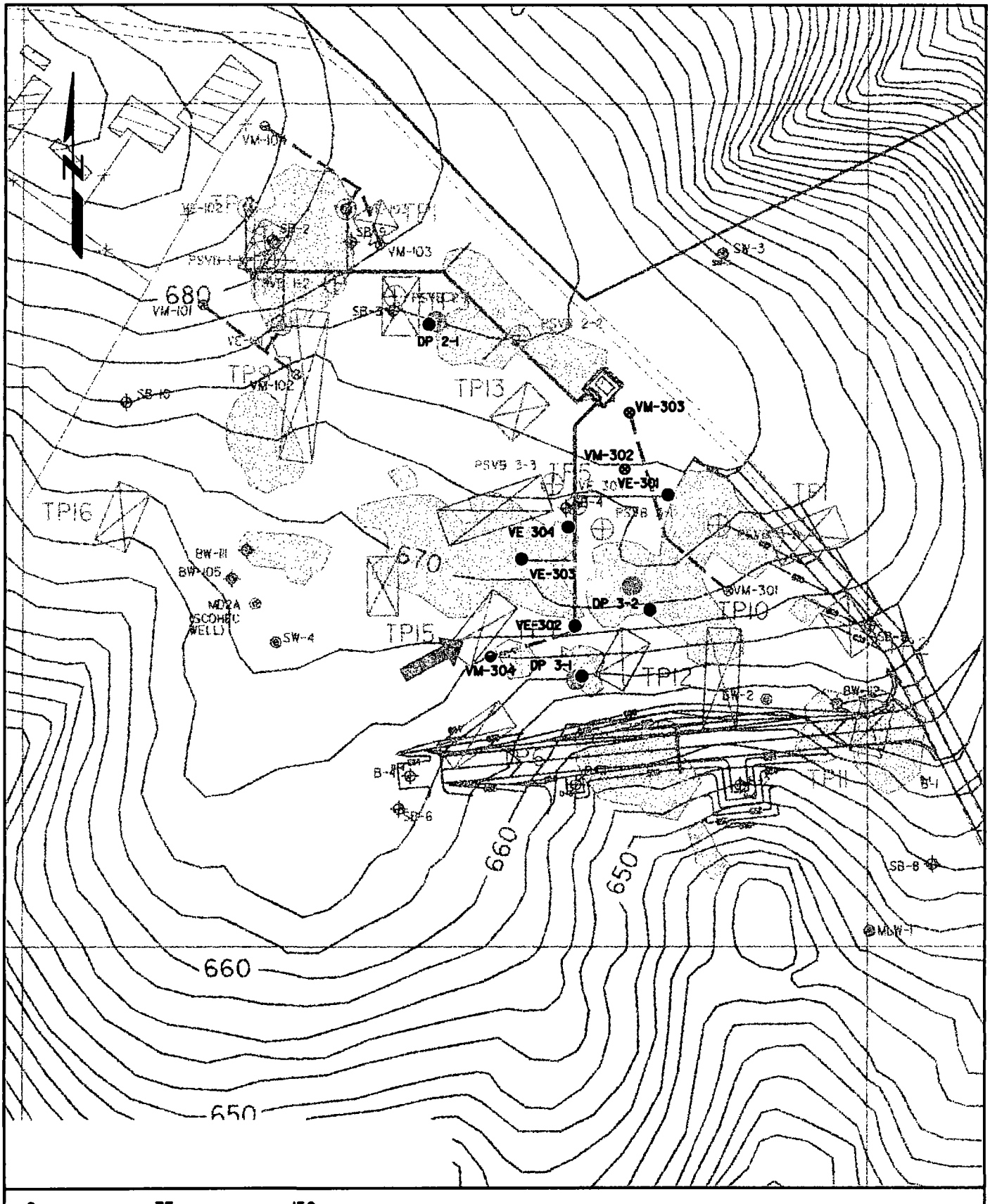
ACTIVE SVE RECOVERY WELL LOCATIONS

RMT

938.86
012000

MEDLEY FARM SITE
GAFFNEY, SOUTH CAROLINA

J:/CAD/USR3/HYDRO/938H/SECFIG4.DGN
PAM 02-13-2001



0 75 150

SCALE IN FEET

FIGURE 3-1

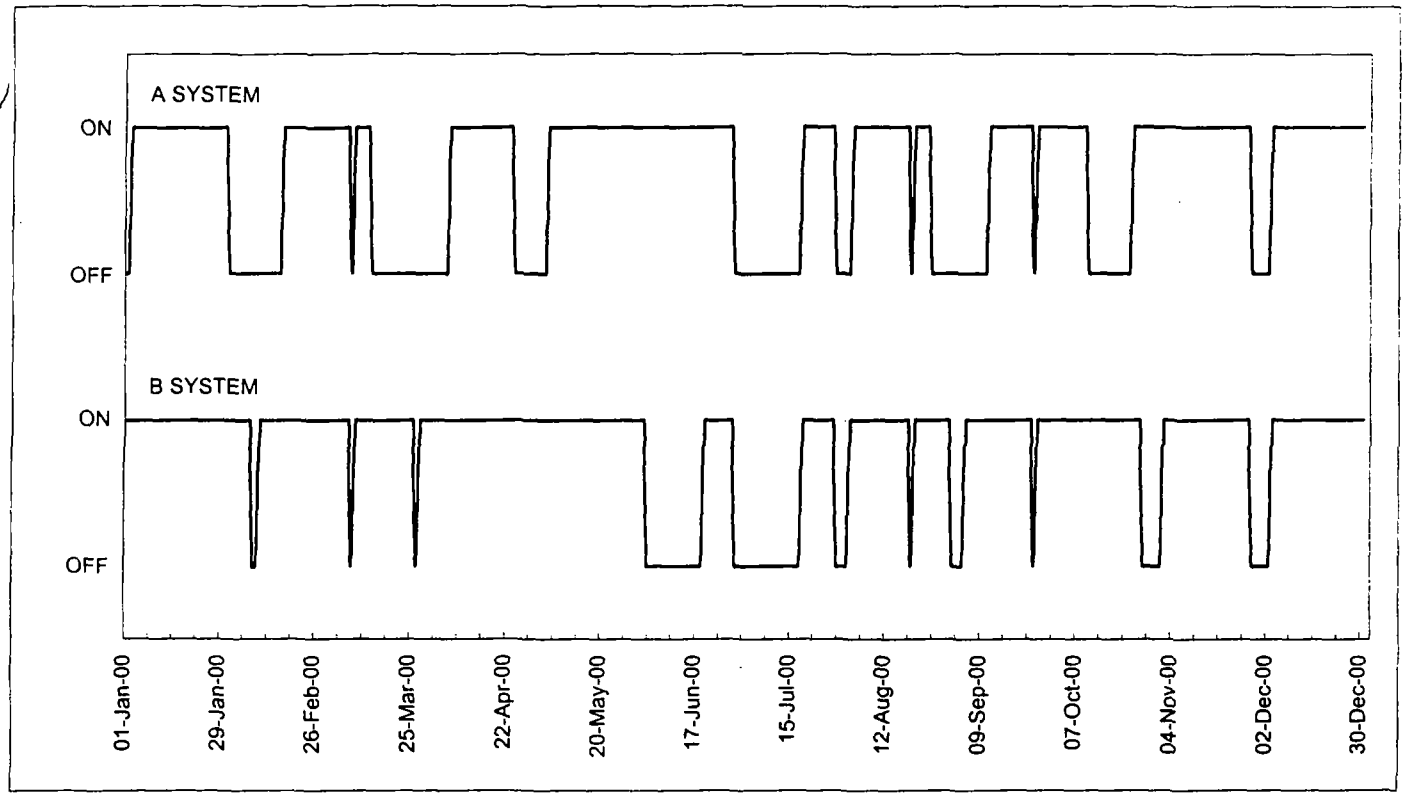
ACTIVE SVE RECOVERY WELL LOCATIONS

RMT

938.86
012000

MEDLEY FARM SITE
GAFFNEY, SOUTH CAROLINA

J:/CAD/USR3/HYDRO/938H/SECFIG4.DGN
PAM 03-23-2001



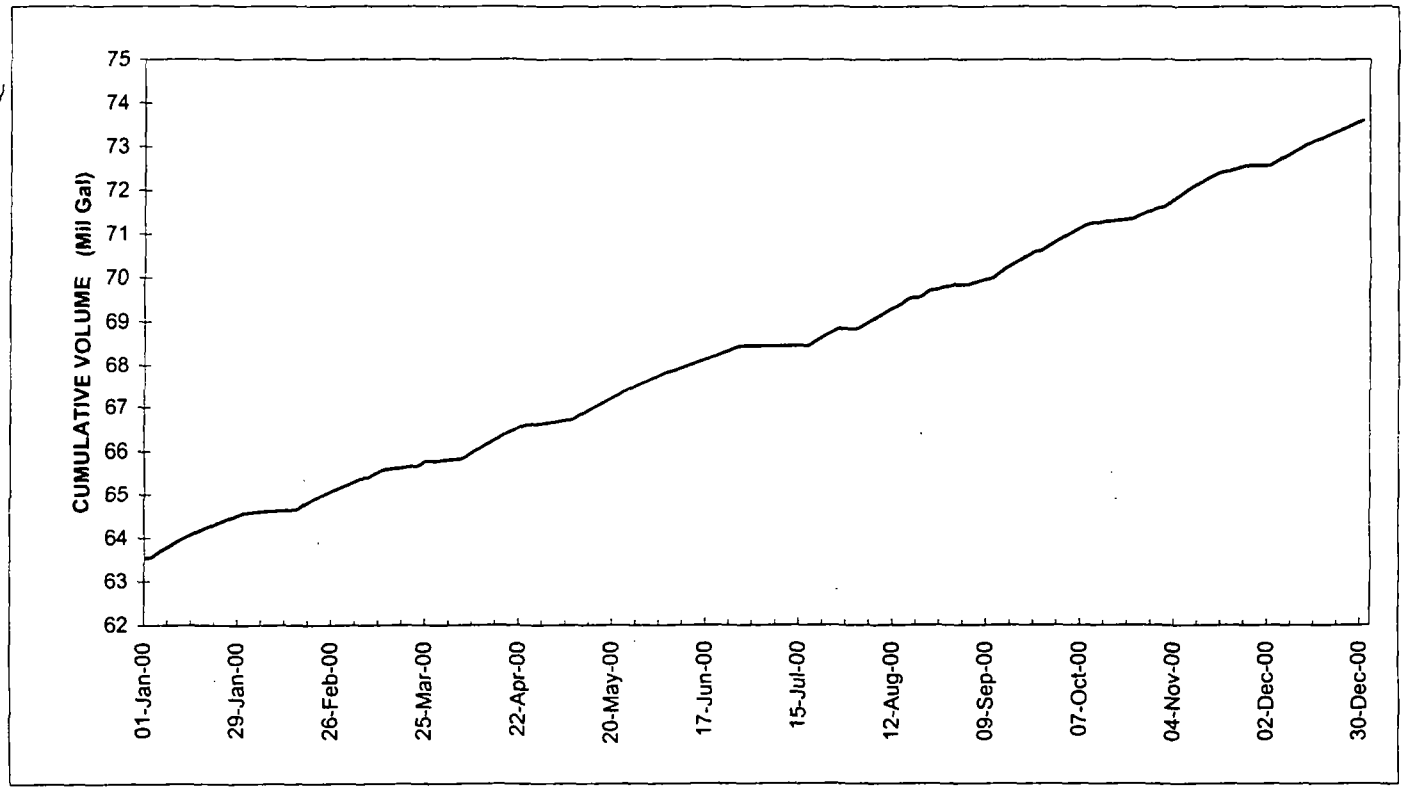


Figure 3-2

Groundwater Treatment System
Operating History and Recovery Volume

Medley Farm Site

938.91

Feb 2001

Table 3-1
Summary of Monthly Groundwater Recovery

YEAR	MONTH	MONTHLY GALLONS (millions)	TOTAL CUMULATIVE GALLONS (millions)	ANNUAL TOTAL (millions)
1995	Jan	0	system not on line	
	Feb	0	system not on line	
	Mar	0.12	0.12	
	Apr	0.52	0.64	
	May	1.80	2.44	
	Jun	1.05	3.49	
	Jul	1.48	4.97	
	Aug	1.46	6.43	
	Sep	1.08	7.51	
	Oct	0.73	8.24	
	Nov	1.62	9.86	
	Dec	1.50	11.36	11.36
1996	Jan	1.45	12.81	
	Feb	1.13	13.94	
	Mar	0.73	14.67	
	Apr	1.09	15.76	
	May	0.79	16.55	
	Jun	1.49	18.04	
	Jul	1.39	19.43	
	Aug	0.95	20.38	
	Sep	1.16	21.54	
	Oct	1.27	22.81	
	Nov	1.20	24.01	
	Dec	1.46	25.47	14.11
1997	Jan	1.47	26.94	
	Feb	1.34	28.28	
	Mar	1.14	29.42	
	Apr	1.20	30.63	
	May	1.25	31.88	
	Jun	1.34	33.22	
	Jul	1.30	34.51	
	Aug	0.62	35.13	
	Sep	1.46	36.59	
	Oct	0.41	37.00	
	Nov	1.04	38.04	
	Dec	0.93	38.97	13.50

Table 3-1
Summary of Monthly Groundwater Recovery

YEAR	MONTH	MONTHLY GALLONS (millions)	TOTAL CUMULATIVE GALLONS (millions)	ANNUAL TOTAL (millions)
1998	Jan	1.73	40.71	
	Feb	1.57	42.28	
	Mar	1.47	43.74	
	Apr	1.58	45.32	
	May	1.24	46.57	
	Jun	1.60	48.17	
	Jul	1.00	49.17	
	Aug	1.12	50.29	
	Sep	1.19	51.48	
	Oct	1.09	52.56	
	Nov	1.04	53.60	
	Dec	0.93	54.53	15.56
1999	Jan	0.79	55.32	
	Feb	0.99	56.31	
	Mar	0.98	57.29	
	Apr	0.82	58.11	
	May	1.03	59.14	
	Jun	0.64	59.78	
	Jul	1.12	60.90	
	Aug	0.29	61.19	
	Sep	0.81	62.00	
	Oct	0.83	62.83	
	Nov	0.39	63.22	
	Dec	0.36	63.58	9.05
2000	Jan	1.03	64.61	
	Feb	0.61	65.22	
	Mar	0.63	65.85	
	Apr	0.84	66.69	
	May	1.03	67.72	
	Jun	0.80	68.52	
	Jul	0.38	68.90	
	Aug	1.00	69.90	
	Sep	0.99	70.89	
	Oct	0.77	71.66	
	Nov	0.97	72.63	
	Dec	1.03	73.66	10.08

Table 3-2
Summary of Operation and Maintenance Activities

DATE	DESCRIPTION
01-01-00	A-system off per schedule; B-system operating.
01-03-00	Restarted A-system per schedule. A- and B-systems pumps and motors lubricated.
01-24-00	Restarted system after power failure.
01-31-00	A-system shut down per schedule.
02-07-00	System down for computer repairs.
02-10-00	Restarted B-system. A-system off per schedule.
02-14-00	Restarted B-system after power failure.
02-17-00	Restarted A-system per schedule.
02-25-00	Installed new flow meter at A-5.
03-09-00	A- and B-systems restarted after power failure.
03-14-00	A-system shut down per schedule.
03-24-00	Restarted A-system per schedule.
03-26-00	System shut down – leak in A-system; B-system operating.
04-06-00	A-system restarted.
04-24-00	A-system shut down per schedule. Pumps and motors lubricated.
05-09-00	A-system restarted per schedule.
06-02-00	Shut down P-200 because insulation on power feed had deteriorated.
06-20-00	Replaced P-200 power feeder. Shut down A-6 to repair leak.
06-28-00	Low recirculation tank level caused system to shut down. No leaks were apparent.
07-28-00	Low recirculation tank level caused system to shut down. No leaks were apparent.
08-14-00	Power failure caused system to shut down.
08-19-00	Low recirculation tank level caused system to shut down. No leaks apparent. Refilled tank and restarted system on August 21, 2000.
08-25-00	Storm caused system to shut down.
08-26-00	Restarted B-system. A-system off per schedule.
09-01-00	Power failure caused system to shut down.
09-05-00	Restarted B-system. A-system off per schedule.
09-12-00	Restarted A-system per schedule.

Table 3-2
Summary of Operation and Maintenance Activities

DATE	DESCRIPTION
09-24-00	System shut down, probably due to power interruption.
09-26-00	Restarted A- and B-systems.
10-10-00	A-system shut down per schedule.
10-24-00	Restarted A-system per schedule.
10-26-00	B-system developed a leak and was shut down.
11-02-00	B-system restarted.
11-03-00	New DP wells (DP2-1, DP3-1, and DP3-2) were started.
11-19-00	Repaired P-100. (Pump discharge was low.)
11-27-00	System shut down for annual sampling event.
12-04-00	A- and B-systems restarted.
12-31-00	A- and B-systems online. DP wells pumping. Discharge flow rate approximately 23 gpm.

Section 4
Groundwater Treatment System Performance

In accordance with the requirements of the Medley Farm NPL Site's NPDES Permit, RMT has been collecting water quality samples of the treated effluent since system startup. Water samples are collected as "grab" samples from a sample tap on the air stripper discharge located just upstream of the flow monitoring station. Monthly flow data and analytical results from NPDES sampling activities are summarized in Table 4-1. These data show that the treatment system has effectively removed the VOCs listed in the NPDES permit to levels below analytical detection limits. Monthly NPDES discharge monitoring reports are included as Appendix C.

Effluent samples are collected quarterly for chronic toxicity testing. The test performed in April was deemed a failure because the variance of the test group's reproduction was higher than that of the control group. However, if this test's data had been evaluated using a confidence interval (a value) of 0.01, the test would have passed. The effluent sample retested in May was deemed to pass. Tests performed in July and November also passed. Laboratory reports for chronic toxicity testing performed in 2000 are provided in Appendix D.

Table 4-1
Summary of National Pollutant Discharge Elimination System Monitoring Data

MO-YR	FLOW (mgd)		BOD (mg/L)		pH (su)		VOCs (mg/L)		CHRONIC TOXICITY TESTING (PASS/FAIL)
	AVE	MAX	AVE	MAX	MIN	MAX	AVE	MAX	
Mar-95	0.008	0.015	8.6	<10	7.86	8.11	BDL(1)	BDL(1)	Pass
Apr-95	0.017	0.032	7.7	13.0	7.76	7.99	BDL	BDL	Pass
May-95	0.060	0.110	6.5	12.0	7.70	8.14	BDL	BDL	Pass
Jun-95	0.016	0.033	5.5	9.0	7.46	7.66	BDL	BDL	Pass
Jul-95	0.051	0.058	9.8	14.0	7.69	8.17	BDL	BDL	Pass
Aug-95	0.047	0.053	12.8(2)	26(3)	7.69	7.98	BDL	BDL	Pass
Sep-95	0.040	0.049	6.1	10.0	6.78	7.83	BDL	BDL	Pass
Oct-95	0.024	0.064	3.6	5.0	7.08	8.15	BDL	BDL	Pass
Nov-95	0.054	0.066	3.1	5.0	7.10	7.59	BDL	BDL	Pass
Dec-95	0.048	0.064	4.1	5.0	7.15	7.49	BDL	BDL	NA
Jan-96	0.047	0.059	4.3	7.6	7.11	7.50	BDL	BDL	NA
Feb-96	0.040	0.075	5.0	5.0	7.08	7.92	BDL	BDL	Pass
Mar-96	0.032	0.064	3.1	5.0	7.29	8.08	BDL	BDL	NA
Apr-96	0.036	0.045	4.2	5.0	6.73	7.85	BDL	BDL	NA
May-96	0.036	0.051	5.6	6.9	6.61	7.98	BDL	BDL	Pass
Jun-96	0.050	0.054	3.7	5.0	6.30	7.67	BDL	BDL	NA
Jul-96	0.045	0.050	2.9	4.6	7.14	7.65	BDL	BDL	NA
Aug-96	0.030	0.059	4.4	5.0	7.00	7.30	BDL	BDL	Pass
Sep-96	0.039	0.060	3.8	5.0	6.98	7.38	BDL(4)	BDL(4)	NA
Oct-96	0.041	0.050	3.3	5.0	7.15	7.69	BDL	BDL	NA
Nov-96	0.040	0.042	3.1	5.0	7.30	7.85	BDL	BDL	Pass
Dec-96	0.047	0.055	4.2	5.7	7.10	7.80	BDL	BDL	NA
Jan-97	0.048	0.050	4.5	7.6	7.20	7.70	BDL	BDL	NA
Feb-97	0.048	0.050	3.6	4.5	7.30	7.70	BDL	BDL	Pass
Mar-97	0.039	0.049	4.4	5.1	7.20	7.60	BDL	BDL	NA
Apr-97	0.042	0.071	2.6	3.2	7.80	7.80	BDL	BDL	NA
May-97	0.039	0.074	5.5	6.0	6.80	7.90	BDL	BDL	Pass
Jun-97	0.045	0.072	3.8	5.0	6.90	7.80	BDL	BDL	NA
Jul-97	0.041	0.080	3.5	5.0	7.40	8.00	BDL	BDL	NA
Aug-97	0.019	0.079	5.0	5.0	7.00	7.00	BDL	BDL	NA
Sep-97	0.049	0.070	2.8	5.0	6.90	7.50	See Note (5)	See Note (5)	Pass
Oct-97	0.013	0.032	2.3	3.0	7.00	7.20	BDL	BDL	NA
Nov-97	0.057	0.083	3.5	5.0	6.90	6.90	BDL	BDL	Pass
Dec-97	0.030	0.058	3.2	5.0	7.20	8.00	See Note (6)	See Note (6)	NA
Jan-98	0.056	0.074	2.0	2.0	7.94	8.01	BDL	BDL	Pass
Feb-98	0.056	0.070	2.0	2.0	7.14	8.02	BDL	BDL	NA
Mar-98	0.054	0.065	2.0	2.0	7.37	7.78	BDL	BDL	NA
Apr-98	0.053	0.076	2.0	2.0	6.96	7.96	BDL	BDL	Fail
May-98	0.040	0.065	2.0	2.0	7.60	8.18	BDL	BDL	NA

(1) All samples analyzed for permitted volatile organics were below detection limit: 0.001 mg/L for 1,2-Dichloroethane, 1,1-Dichloroethene, and trichloroethene; and 0.002 mg/L for tetrachloroethene.

(2) The average BOD_5 value exceeded the permit limit of 10 mg/L.

(3) The maximum BOD_5 value exceeded the permit limit of 20 mg/L.

(4) Starting on Sept. 16, 1996 the detection limit for tetrachloroethene was reduced to 0.001 mg/L.

5) VOC concentrations on 9/15/97 were:1,2-DCA-0.0014, 1,1-DCE-0.0023, PCE-0.0068, TCE-0.019. All detections were below NPDES Permit Limits.

6) VOC concentrations on 12/22/97 were:1,2-DCA-0.031, 1,1-DCE-0.0078, PCE-0.011, TCE-0.038. 1,2-DCA and TCE exceeded NPDES Permit Limits. Three other samples in December 1997 samples were BDL.

7) Test would have passed using $\alpha = 0.01$.

8) All VOCs were below 0.001 mg/L except PCE = 0.0021 and TCE = 0.0088 on 10-23-00, which were below NPDES permit limits.

Table 4-1
Summary of National Pollutant Discharge Elimination System Monitoring Data

MO-YR	FLOW (mgd)		BOD (mg/L)		pH (su)		VOCs (mg/L)		CHRONIC TOXICITY TESTING (PASS/FAIL)
	AVE	MAX	AVE	MAX	MIN	MAX	AVE	MAX	
Jun-98	0.064	0.053	4.9	15.4	7.48	8.14	BDL	BDL	Pass (Retest)
Jul-98	0.056	0.072	2.0	2.0	6.46	7.34	BDL	BDL	Pass
Aug-98	0.036	0.061	3.8	11.2	6.80	7.37	BDL	BDL	NA
Sep-98	0.039	0.060	2.0	2.0	6.85	7.50	BDL	BDL	NA
Oct-98	0.043	0.055	2.0	2.0	7.73	8.08	BDL	BDL	Pass
Nov-98	0.034	0.042	2..2	2.9	6.62	8.46	BDL	BDL	NA
Dec-98	0.047	0.029	2.4	3.7	6.96	8.28	BDL	BDL	Pass
Jan-99	0.026	0.049	<2	<2	8.28	8.37	BDL	BDL	Pass
Feb-99	0.042	0.051	<2	<2	7.51	8.35	BDL	BDL	NA
Mar-99	0.046	0.060	<2	<2	7.49	8.10	BDL	BDL	NA
Apr-99	0.027	0.051	<2	5.00	7.19	8.02	BDL	BDL	Fail
May-99	0.033	0.050	<2	<2	6.92	7.51	BDL	BDL	Pass
Jun-99	0.021	0.044	<2	<2	7.04	7.52	BDL	BDL	NA
Jul-99	0.036	0.049	<2	<2	7.14	7.20	BDL	BDL	Fail
Aug-99	0.010	0.039	<2	<2	6.80	7.17	BDL	BDL	NA
Sep-99	0.027	0.065	<2	<2	7.23	7.62	BDL	BDL	Fail
Oct-99	0.027	0.040	<2	<2	7.55	7.82	BDL	BDL	Pass
Nov-99	0.013	0.033	<2	<2	7.12	7.81	BDL	BDL	NA
Dec-99	0.012	0.049	<2	<2	7.10	7.71	BDL	BDL	NA
Jan-00	0.035	0.053	4.40	14.00	6.54	7.96	BDL	BDL	Pass
Feb-00	0.021	0.050	2.30	3.20	7.62	8.01	BDL	BDL	NA
Mar-00	0.020	0.052	3.70	7.10	7.99	8.18	BDL	BDL	NA
Apr-00	0.028	0.052	<2	<2	7.43	8.05	BDL	BDL	Fail(7)
May-00	0.033	0.054	2.10	2.20	7.27	8.22	BDL	BDL	Pass
Jun-00	0.027	0.038	<2	<2	7.64	7.95	BDL	BDL	NA
Jul-00	0.038	0.050	7.40	8.00	7.87	8.17	BDL	BDL	Pass
Aug-00	0.032	0.053	<2	<2	7.76	8.20	BDL	BDL	NA
Sep-00	0.038	0.061	<2	<2	7.64	8.34	BDL	BDL	NA
Oct-00	0.025	0.044	<2	<2	7.17	7.44	(8)	(8)	NA
Nov-00	0.032	0.061	<2	<2	6.89	7.45	BDL	BDL	Pass
Dec-00	0.033	0.040	2.40	3.40	6.64	8.02	BDL	BDL	NA

(1) All samples analyzed for permitted volatile organics were below detection limit: 0.001 mg/L for 1,2-Dichloroethane, 1,1-Dichloroethene, and trichloroethene; and 0.002 mg/L for tetrachloroethene.

(2) The average BOD_5 value exceeded the permit limit of 10 mg/L.

(3) The maximum BOD_5 value exceeded the permit limit of 20 mg/L.

(4) Starting on Sept. 16, 1996 the detection limit for tetrachloroethene was reduced to 0.001 mg/L.

5) VOC concentrations on 9/15/97 were:1,2-DCA-0.0014, 1,1-DCE-0.0023, PCE-0.0068, TCE-0.019. All detections were below NPDES Permit Limits.

6) VOC concentrations on 12/22/97 were:1,2-DCA-0.031, 1,1-DCE-0.0078, PCE-0.011, TCE-0.038. 1,2-DCA and TCE exceeded NPDES Permit Limits. Three other samples in December 1997 samples were BDL.

7) Test would have passed using $\alpha = 0.01$.

8) All VOCs were below 0.001 mg/L except PCE = 0.0021 and TCE = 0.0088 on 10-23-00, which were below NPDES permit limits.

Table 4-2
Summary of Chronic Toxicity Testing

MONTH	GROUP	ACUTE TESTS (MORTALITY)			CHRONIC TESTS (REPRODUCTION)		
		ADULTS	# DEAD	P/F	AVERAGE OFFSPRING PER FEMALE	VARIANCE	P/F
1Q00 Jan 2000	Control	20	0	Pass	31.4	10.25	Pass
	Test	20	0		33.3	11.49	
2Q00 Apr 2000	Control	20	1	Pass	35.0	12.8	Fail (1)
	Test	20	0		32.0	19.7	
2Q00 May 2000	Control	20	0	Pass	24.6	21.9	Pass
	Test	20	1		24.1	29.2	
1Q00 Jan 2000	Control	20	0	Pass	31.4	10.25	Pass
	Test	20	0		33.3	11.49	
3Q00 Jul 2000	Control	20	0	Pass	17.9	9.5	Pass
	Test	20	0		22.3	7.0	
4Q00 Nov 2000	Control	20	0	Pass	25.5	60.9	Pass
	Test	20	0		24.7	33.6	

(1) Test would have passed at $\alpha = 0.01$.

Section 5
Remediation of Groundwater

The results of groundwater monitoring activities conducted in 2000 are presented in this section. The analytical results have been plotted on maps and graphs to illustrate the changes in the distribution and concentration of the VOCs with time.

5.1 Groundwater Sampling and Analysis

5.1.1 Routine Sampling

As specified in the *Performance Standards Verification Plan* (RMT, August 1993), groundwater samples were collected quarterly from specified monitoring and recovery wells. Samples collected during the first three quarterly events were analyzed for the site-specific list of VOCs. In the fourth quarter, the comprehensive "annual" sampling event was conducted. This consisted of collecting samples from the list of "annual" monitoring wells. As in previous years, samples were also collected from the recovery wells in the fourth quarter. The groundwater recovery system was shut down for a period of four days as part of the annual sampling event. The shut down occurred one day prior to initiation of sampling.

The analytical laboratory reports for the four sampling events conducted in 2000 are provided in Appendix E. Analytical results of groundwater samples collected from monitoring wells and from recovery wells have been summarized on Table 5-1 and Table 5-2, respectively. Groundwater concentrations that exceed the PSVP standard are shaded. Appendix F provides a summary of the historical detections of the four primary VOCs of concern in groundwater.

5.1.2 Natural Attenuation Monitoring

In addition to the "annual" sampling activities, specified wells were sampled during the fourth quarter for indicator parameters to evaluate the potential for natural attenuation of VOCs in groundwater at the site. The list of analytical parameters was based on the USEPA's, *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater* (EPA/600/R-98/128). Parameters analyzed included those identified in the protocol as a "required analysis," as well as total organic carbon (TOC), alkalinity, and ethane (even though the latter three parameters are not specified as a "required analysis" in the protocol). Hydrogen was not analyzed during the natural attenuation

screening, as it is not a "required analysis" in the protocol and it was not considered warranted during this phase of the screening process. Manganese was also omitted from the natural attenuation screening, since it is not included as an analytical parameter in the USEPA protocol.

Dissolved oxygen (DO), oxidation reduction potential (ORP), temperature, and pH measurements were collected using a downhole probe and slow purge techniques. Indicator parameters were analyzed using unfiltered samples, except for TOC, which did require the sample to be filtered in the laboratory. Wells sampled for natural attenuation parameters were selected based on the criteria described in the proposed sampling program for the assessment of natural attenuation potential of chlorinated compounds (NA Proposal), dated November 14, 2000. A summary of the natural attenuation parameter concentrations is provided in Table 5-2.

5.2 Distribution of Volatile Organic Compounds in Groundwater

The distributions of the four VOCs most frequently detected at concentrations above the PSVP standard TCE, PCE, 1,2-DCA, and 1,1-DCE are illustrated on Plate 4. The size of the VOC plume and the overall plume concentrations have been reduced with each year of groundwater recovery. The center of mass of the plume remains located near the former source area, with the highest concentrations of VOCs detected in recovery wells DP-3-1, DP-3-2, B-2, B-3, and B-4. The plume is elongated from the former source area, toward the northeast. The northeasterly preferential component of VOC migration is associated with the presence of a northeast/southwest striking fault and steeply dipping beds of foliated bedrock, which imposes structural control on constituent migration.

Observations related to the VOC distribution in 2000 as compared to previous years are as follows:

- The highest concentrations of the four VOCs of concern at the site are in the former source area. VOC concentrations around the periphery of the plume are significantly lower.
- In 2000, the highest concentrations of VOCs in groundwater were detected in the newly installed DP wells. The concentrations of VOCs detected in groundwater in the DP wells were approximately one order of magnitude lower than in groundwater samples from the corresponding 1999 PSVP borings (Table 5-3). The observed concentration differences may be due to dilution (the PSVP borings were sampled at a discrete interval, while the DP wells were completed to a greater depth and have a longer screen) or due to sampling technique (grab samples were collected from the DP wells while the wells were pumping and being subjected to VE, thus volatilization of VOCs could have occurred).
- VOC concentrations in recovery wells B-1, B-2, and B-3, which are near the former source area, have remained fairly constant over the last three years.

- As demonstrated in RMT's five-year report dated February 2000, VOC concentrations in many of the monitoring wells installed at the periphery of the plume have apparently reached asymptotic levels. Evaluation of VOC concentrations has focused on the interior of the plume during the past two years.

5.3 Natural Attenuation Monitoring Results

Geochemical data indicate that biodegradation of VOCs is not currently a major factor in the attenuation of VOCs in groundwater at the site. Alkalinity is generally higher in downgradient wells (ranging from 50 mg/L to 140 mg/L) as compared to the background wells (24 mg/L in SW-1 and 31 mg/L in BW-1), implying some geochemical changes possibly associated with VOC degradation have occurred in the aquifer. Ethane is detected in many of the downgradient wells, but not in the background wells; however, the concentrations detected are not high enough to be of significance according to the natural attenuation protocol. DO is generally low, but the positive ORP values indicate that VOC degradation is not likely. In addition, the presence of PCE and TCE at monitoring points more distant from the former source areas also may indicate generally inefficient biodegradation. Reductive dechlorination is the only biological mechanism currently known to degrade PCE and TCE. This occurs only under anaerobic conditions. The persistence of PCE and TCE at the site may be attributed to the SVE system causing aerobic conditions in the groundwater or due to an insufficient organic carbon source (food) to support the anaerobic microbial activity.

Of the wells sampled, MW-2-2 and SW-102 data show slight evidence of a geochemical environment suitable for the anaerobic biodegradation of chlorinated compounds. In MW-2-2, parameters indicative of anaerobic biodegradation of chlorinated compounds include low DO, chloride and alkalinity greater than background, and concentrations of ferrous iron higher than background. In SW-102, the low DO and low ORP indicate anoxic conditions, but other parameters do not indicate that VOC degradation is occurring.

These results indicate that present conditions are not conducive for anaerobic VOC degradation. However, it is possible that subsurface conditions prior to startup of the groundwater recovery system may have been favorable to VOC degradation. Pumping conditions in the aquifer and the associated drawdown of the water table have likely changed geochemical conditions in shallow VOC-impacted zones of the aquifer. Thus, anaerobic degradation of VOCs, which may have been occurring in the vadose zone or in the aquifer, would have been interrupted by the change in the water table and the dewatering of previously saturated zones.

5.4 Contaminant Mass Removed from Groundwater

An estimate of the VOC mass removed from the groundwater was prepared using estimated production rates for each recovery well, the total gallons of water recovered by the system, and the concentration of VOCs measured in each recovery well. The estimates of VOC mass and groundwater removed in 2000 are presented in Table 5-4. A summary of the VOC mass removed for each of the past five years is presented in Table 5-5.

An estimated total of 218 pounds of VOCs have been removed from the aquifer with the recovery of 74 million gallons of groundwater during recovery system operation over nearly six years. The mass of VOCs removed from the groundwater has declined from a high of 61 pounds in 1996, to a low of approximately 15 pounds in 2000. The ratio of mass recovery per volume of groundwater recovered has also declined each year from a high in 1995 of 5.11 pounds of VOCs per million gallons of groundwater recovered to a low of 1.5 pounds of VOCs per million gallons of groundwater in 2000. However, that ratio has been relatively constant in the last three years (1998, 1999, and 2000) indicating that recovery of VOCs from the groundwater may have become diffusion limited prior to installation of the DP wells.

5.5 Time Versus Concentration Trends

Concentration versus time charts for the four VOCs of concern are presented in Appendix G. Graphs were prepared for 11 groundwater recovery wells and for all monitoring wells that had routinely yielded water for sampling. As has been described in previous annual reports, a significant (orders of magnitude) decrease in concentration was noted in most wells during the first year of groundwater recovery. Beginning in the second year of groundwater recovery, VOC concentrations continued to decline, but at a much lower rate. To increase the resolution of the recent analytical results for the monitoring wells, the 1995 data has been omitted from the graphs. Many of these graphs appear to illustrate the concentrations reaching an asymptote.

The concentration of 1,2-DCA in all monitoring wells except MW-2-2 continues to remain below the PSVP standard. In MW-2-2, 1,2-DCA was slightly above the PSVP standard only in the fourth quarter sampling event; during the other three quarterly sampling events during 2000, 1,2-DCA in MW-2-2 was below the PSVP standard. During 2000, VOC concentrations at BW-108 were generally lower than concentrations observed during 1999, and in the fourth quarter 2000 annual sampling event, only TCE was above the PSVP standard. Also in 2000, VOCs were either not detected or were consistently below the PSVP standard in well BW-202, and VOC concentrations in BW-201 were intermittently only slightly above the PSVP standard. Although concentrations of 1,1-DCE, TCE and PCE remain above the PSVP standard, MW-2-1 continues to show a strong decreasing trend in VOC concentrations over time. Concentrations in MW-2-2 were relatively stable or slightly decreased, with the exception of TCE

concentrations which increased during 2000. TCE concentrations also increased in MW-4-1 and MW-4-2 during 2000.

VOC concentrations in monitoring wells MW-4-1 and MW-4-2 have increased during 2000. These monitoring wells are situated between groundwater recovery wells A-1 and A-2. The time versus concentration graph for MW-4-1 illustrates that VOC concentrations in the well declined slightly or remained steady overall throughout most of 1998 and 1999; concentrations increased only during 2000. MW-4-2, however, has shown a gradual increase in PCE and TCE concentrations since well installation. Fluctuations in VOC concentrations, both up and down, are noted over time at each of the wells. TCE and acetone were detected at concentrations above the PSVP standard in multi-level well MLW-3 during 2000. However, acetone was detected at MLW-3-1 above the PSVP standard of 0.35 mg/L only twice in the 6 year history of quarterly monitoring. Acetone was detected in well MLW-3-1 at a concentration of 8 mg/L in October 1999 and 1.9 mg/L in August 2000. Acetone concentrations reported for the other three sampling events conducted during 2000, however, were well below the PSVP standard.

Groundwater recovery wells A-5, A-7, and B-4 exhibited decreasing concentrations of VOCs at the end of 2000 relative to concentrations observed in 1999. The 2000 VOC concentrations in A-1, A-3, A-4, B-1, B-2, and B-3 remained relatively unchanged compared to 1999 VOC concentrations. A-2 showed an increase in concentration of TCE and a decrease in concentration of PCE while other VOC concentrations remained relatively unchanged. Recovery well A-6 showed a slight increase in concentration of TCE. These fluctuations in concentration are likely attributed to the cycling the recovery systems on and off and collecting groundwater samples at different times with respect to recovery system operation.

5.6 Groundwater Modeling Evaluation

The existing groundwater flow model was modified in 2000 to incorporate revisions to the top of the bedrock surface described in Section 2 of this annual report. Pumping periods and rates were also adjusted to reflect intermittent operation of the A-system wells with continuous operation of the B-system. Recovery well pumping rates were assigned to monthly stress periods in the model for a one-year period representing 2000. Simulation of groundwater flow was accomplished using MODFLOW (McDonald and Harbaugh, 1988). Particle tracking was then completed using MODPATH (Pollock, 1994) to delineate the area of groundwater capture by the recovery system over time.

Simulation of groundwater capture over time has been conducted using a transient groundwater flow model. Figures presented in the five-year report illustrated the estimated extent of groundwater capture after one year, three years, and five years of system operation. The extent of groundwater capture around each well is influenced primarily by the pumping

rate obtained at each well. The groundwater modeling indicated that approximately three to four years of system operation is required for capture zones to begin to coalesce and create a zone of hydraulic containment of the VOC plume downgradient from the source areas. Limited expansion of the capture zones occurs after four years.

Figure 5-1 illustrates calculated capture zones at the site following greater than five years of system operation and with operation of the DP wells brought on-line during late 2000. The DP wells provide for recovery of groundwater from the central portion of the VOC plume. Particle tracking indicates that the existing system of recovery wells adequately limits downgradient migration of groundwater away from the VOC source area.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE					
		BW-108 03/02/2000	BW-201 03/02/2000	BW-202 03/02/2000	MLW-1-1 03/01/2000	MLW-3-3 03/01/2000	MLW-3-4 03/01/2000
Volatile Organics							
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	0.02	0.004 J
2-Butanone	2.0	<0.005	<0.005	<0.005	0.0071	0.0082	<0.005
Chloroform	0.1	<0.001	<0.001	<0.001	0.0057	0.00045 J	<0.001
1,1-Dichloroethane	0.35	<0.001	0.00061 J	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.00067 J	0.00076 J	<0.001	<0.001	0.00083 J	<0.001
cis-1,2-Dichloroethene	0.07	0.0012	0.0019	<0.001	<0.001	0.00056 J	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.0014 Bu	<0.00091 JBu	<0.001
Tetrachloroethene	0.005	0.0034	0.0037	0.0035	<0.001	0.0026	<0.001
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	0.00068 J	0.00067 J	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.0048	0.0051	0.0011	<0.001	0.0089	<0.001

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

[2] Performance Standards set from target levels in Table 19 of the Medley Farm Record of Decision.

B - Present in analytical method blank.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

Shading indicates sample exceeds Performance Standard.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		MW-2-1 03/02/2000	MW-2-2 03/02/2000	MW-4-1 03/02/2000	MW-4-2 03/02/2000	(DU-00101) MW-4-2 03/01/2000
Volatile Organics						
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	0.0015	0.0027	0.027	0.014	0.015
1,1-Dichloroethane	0.35	0.00091 J	0.0011	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.0031	0.0019	0.0013	0.0011	0.00093 J
1,1-Dichloroethene	0.007	0.022	0.012	0.0086	0.0051	0.0054
cis-1,2-Dichloroethene	0.07	0.0017	0.0056	0.0017	0.0018	0.0017
Methylene chloride	0.005	<0.00047 JBu	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.022	0.022	0.044	0.05	0.05
1,1,1-Trichloroethane	0.2	0.0015	0.0025	0.0015	0.00086 J	0.0009 J
1,1,2-Trichloroethane	0.005	<0.001	0.00086 J	0.0054	<0.001	<0.001
Trichloroethene	0.005	0.036	0.043	0.093	0.16	0.16

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Performance Standards set from target levels in Table 19 of the Medley Farm Record of Decision.

B - Present in analytical method blank.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

Shading indicates sample exceeds Performance Standard.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE					
		BW-108 6/28/00	BW-201 6/27/00	BW-202 6/27/00	MLW-3-1 6/30/00	MLW-3-2 6/30/00	MLW-3-3 6/30/00
Volatile Organics							
Acetone	0.35	<0.005	<0.005	<0.005	0.28 D	0.059	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	0.044	0.013	<0.005
Chloroform	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.07	0.0018	0.0014	<0.001	<0.001	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.017	0.0058	0.0046	0.0025	0.0023	0.0027
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.021	0.0078	0.0013	0.0093	0.0082	0.011

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Performance Standards set from target levels in Table 19 of the Medley Farm Record of Decision.

D - Results from diluted sample.

Shading indicates sample exceeds Performance Standard.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		MW2-1 6/28/00	(DU-00201) MW2-1 6/28/00	MW2-2 6/28/00	MW4-1 6/28/00	MW4-2 6/27/00
Volatile Organics						
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	0.0016	0.0016	0.0028	0.031	0.0098
1,1-Dichloroethane	0.35	<0.001	<0.001	0.0014	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	0.0034	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.017	0.018	0.0072	0.0067	0.0035
cis-1,2-Dichloroethene	0.07	0.0017	0.0018	0.0078	0.0017	0.0014
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.027	0.026	0.022	0.064	0.037
1,1,1-Trichloroethane	0.2	0.0017	0.0016	0.0021	0.0015	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.042	0.043	0.057	0.14	0.13

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Performance Standards set from target levels in Table 19 of the Medley Farm Record of Decision.

D - Results from diluted sample.

Shading indicates sample exceeds Performance Standard.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE						
		BW-108 08/23/2000	BW-201 08/22/2000	(DU-00301) BW-201 08/22/2000	BW-202 08/22/2000	MLW-3-1 08/22/2000	MLW-3-2 08/22/2000	MLW-3-3 08/22/2000
Volatile Organics								
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	1.9 D	0.026	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	0.13	0.0054	0.0016 J
Chloroform	0.1	<0.001	<0.001	<0.001	<0.001	<0.01	0.00051 J	<0.001
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
1,1-Dichloroethene	0.007	0.0015	0.00064 J	0.00065 J	<0.001	<0.01	0.00074 J	<0.001
cis-1,2-Dichloroethene	0.07	0.0013	0.0011	0.0012	<0.001	<0.01	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.01	0.00059 J	<0.001
Tetrachloroethene	0.005	0.011	0.0038	0.004	0.004	<0.01	0.0023	0.0014
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
Trichloroethene	0.005	0.015	0.0062	0.0062	0.0012	0.011	0.009	0.0047

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Performance Standards set from target levels in Table 19 of the Medley Farm Record of Decision.

B - Present in analytical method blank.

D - Results from diluted sample.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

Shading indicates sample exceeds Performance Standard.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE			
		MW-2-1 08/23/2000	MW-2-2 08/23/2000	MW-4-1 08/23/2000	MW-4-2 08/22/2000
Volatile Organics					
Acetone	0.35	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	0.0015	0.0036	0.041	0.013
1,1-Dichloroethane	0.35	0.00086 J	0.0012	<0.001	<0.001
1,2-Dichloroethane	0.005	0.0035	0.0026	0.0017	0.001
1,1-Dichloroethene	0.007	0.021	0.01	0.0085	0.0044
cis-1,2-Dichloroethene	0.07	0.0012	0.0063	0.0019	0.0014
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.015	0.021	0.064	0.042
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	0.0088	0.0014
Trichloroethene	0.005	0.031	0.068	0.15	0.17

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Performance Standards set from target levels in Table 19 of the Medley Farm Record of Decision.

B - Present in analytical method blank.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

Shading indicates sample exceeds Performance Standard.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE						
		A-1 11/30/2000	A-2 11/30/2000	A-3 11/30/2000	A-4 11/30/2000	A-5 11/30/2000	A-6 11/30/2000	A-7 11/30/2000
Volatile Organics								
Acetone	0.35	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	0.004	0.021	0.0044	<0.001	0.0037	0.00046 J	0.0022
1,1-Dichloroethane	0.35	<0.001	<0.002	<0.001	<0.001	0.00074 J	<0.001	<0.001
1,2-Dichloroethane	0.005	0.00076 J	0.0011 J	0.0012	<0.001	0.0014	<0.001	<0.001
1,1-Dichloroethene	0.007	<0.001	0.0022	0.0062	<0.001	0.0075	0.0012	0.0059
cis-1,2-Dichloroethene	0.07	0.0049	0.0034	0.0026	0.00056 J	0.0036	<0.001	0.0024
Methylene chloride	0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.011 j	0.064 j	0.02 j	0.0061 j	0.026 j	0.0037 j	0.04 j
1,1,1-Trichloroethane	0.2	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.00054 J	0.0035 j	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.047 j	0.21 j	0.039 j	0.0055 j	0.055 j	0.0059 j	0.053 j

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

j - Concentration considered an estimate based on data validation.

< - Concentration less than the Quantitation Limit.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE						
		B-1 11/30/2000	B-2 11/30/2000	B-3 11/30/2000	(DU-00401) B-3 11/30/2000	B-4 11/30/2000	BW-1 11/29/2000	BW-105 12/01/2000
Volatile Organics								
Acetone	0.35	<0.005	<0.005	<0.025	<0.025	<0.01	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.025	<0.025	<0.01	<0.005	<0.005
Chloroform	0.1	0.0096	0.0089	0.04	0.038	0.027	<0.001	0.0028
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.005	<0.005	<0.002	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	0.004 J	0.0039 J	0.003	<0.001	0.00056 J
1,1-Dichloroethene	0.007	0.0024	0.021	0.041	0.038	0.052	<0.001	<0.001
cis-1,2-Dichloroethene	0.07	<0.001	0.00071 J	0.004 J	0.0038 J	0.0096	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.005	<0.005	<0.002	<0.001	<0.001
Tetrachloroethene	0.005	0.025 j	0.047 j	0.21 j	0.24 j	0.073 j	<0.001	0.0009 Jj
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.005	<0.005	<0.002	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.0011 j	<0.001	<0.005	<0.005	0.0014 Jj	<0.001	<0.001
Trichloroethene	0.005	0.036 j	0.19 j	0.81 j	0.72 j	0.2 j	<0.001	0.0012 j

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

j - Concentration considered an estimate based on data validation.

< - Concentration less than the Quantitation Limit.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE					
		BW-108 11/29/2000	BW-110 12/01/2000	BW-201 12/01/2000	BW-3 12/01/2000	BW202 12/01/2000	DP-2-1 11/28/2000
Volatile Organics							
Acetone	0.35	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.1	<0.001	0.00074 J	<0.001	<0.001	<0.001	0.0014
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.00066 J	0.0011	0.00051 J	0.0009 J	<0.001	0.0026
cis-1,2-Dichloroethene	0.07	0.0012	<0.001	0.0015	<0.001	<0.001	0.0035
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.0042	0.0005 j	0.0049 j	<0.001	0.0037 j	0.067
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.006	0.0016 j	0.0067 j	<0.001	0.001 j	0.046

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

j - Concentration considered an estimate based on data validation.

< - Concentration less than the Quantitation Limit.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE						
		DP-3-1 11/28/2000	DP-3-2 11/28/2000	MLW-1-1 12/01/2000	MLW-1-2 12/01/2000	MLW-1-3 12/01/2000	MLW-3-1 12/04/2000	MLW-3-2 12/04/2000
Volatile Organics								
Acetone	0.35	<0.005	<0.025	<0.005	0.0092	0.034	0.12	0.042
2-Butanone	2.0	<0.005	<0.025	<0.005	0.012	0.0035 J	0.021	0.01
Chloroform	0.1	0.0078	0.096	0.00041 J	0.0077	0.0059	<0.002	<0.001
1,1-Dichloroethane	0.35	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001
1,2-Dichloroethane	0.005	0.0015	0.075	<0.001	<0.001	<0.001	<0.002	<0.001
1,1-Dichloroethene	0.007	0.0077	0.14	0.001	<0.001	<0.001	<0.002	<0.001
cis-1,2-Dichloroethene	0.07	0.00066 J	0.014	<0.001	<0.001	<0.001	<0.002	<0.001
Methylene chloride	0.005	<0.001	<0.005	<0.001	0.00094 J	<0.001	<0.002	<0.001
Tetrachloroethene	0.005	0.028	0.8	<0.001	<0.001	<0.001	0.002	0.0028
1,1,1-Trichloroethane	0.2	0.0022	0.022	<0.001	<0.001	0.0016 j	<0.002	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001
Trichloroethene	0.005	0.12	0.97	<0.001	<0.001	<0.001	0.0072	0.0095

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L):

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

j - Concentration considered an estimate based on data validation.

< - Concentration less than the Quantitation Limit.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE					
		MLW-3-3 12/04/2000	MW-2-1 11/29/2000	MW-2-2 11/29/2000	MW-4-1 12/01/2000	(DU-00402) MW-4-1 12/01/2000	MW-4-2 11/28/2000
Volatile Organics							
Acetone	0.35	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005	0.0023 J	<0.005	<0.005
Chloroform	0.1	<0.001	0.0014	0.006	0.048	0.045	0.016
1,1-Dichloroethane	0.35	<0.001	0.00076 J	0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	0.0029	0.0067	0.0016	0.0018	0.001
1,1-Dichloroethene	0.007	<0.001	0.016	0.007	0.0062	0.0057	0.0031
cis-1,2-Dichloroethene	0.07	<0.001	0.0015	0.0071	0.0024	0.0023	0.0019
Methylene chloride	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.0029	0.016	0.022	0.064 j	0.075 j	0.055
1,1,1-Trichloroethane	0.2	<0.001	0.0012	0.002	<0.001	<0.001	0.00055 J
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	0.011 j	0.013 j	<0.001
Trichloroethene	0.005	0.0094	0.03	0.075	0.17 j	0.16 j	0.2

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

j - Concentration considered an estimate based on data validation.

< - Concentration less than the Quantitation Limit.

Table 5-1
Summary of Groundwater Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE		
		SW-1 11/29/2000	SW-101 11/28/2000	SW-102 11/28/2000
Volatile Organics				
Acetone	0.35	<0.005	<0.005	<0.005
2-Butanone	2.0	<0.005	<0.005	<0.005
Chloroform	0.1	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.35	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	<0.001	<0.001	0.00076 J
cis-1,2-Dichloroethene	0.07	<0.001	<0.001	<0.001
Methylene chloride	0.005	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.2	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001
Trichloroethene	0.005	<0.001	0.0008 J	<0.001

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

[2] Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

A - Analyte detected in method blank.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

< - Concentration less than the Quantitation Limit.

Table 5-2
Summary of Natural Attenuation Laboratory Results

PARAMETER [1]	LOCATION/SAMPLE DATE				
	BW-1 11/29/2000	BW-108 11/29/2000	DP-2-1 11/28/2000	DP-3-1 11/28/2000	DP-3-2 11/28/2000
Wet Chemistry					
Alkalinity as CaCO3	31 A	60 A	52 A	60 A	56 A
Chloride	2.8	2.4	6.1	3.8	4.7
Ethane	<0.000005	<0.000005	0.0000077	<0.000005	0.0000076
Methane	0.0018	0.0022	0.00015	0.00015	0.00044
Iron, total	<0.05	0.23	0.061	<0.05	<0.05
Ferrous Iron	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrogen, nitrate	0.88	<0.2	1.7	0.25	0.74
Nitrogen, nitrite	<0.2	<0.2	<0.2	<0.2	<0.2
Sulfate	<10	<10	<10	<10	<10
Sulfide	1.1	<1.0	<1.0	<1.0	<1.0
TOC as NPOC - Filtered	1.9	2.6	2.4	3.7	2.9
Field Parameters					
pH (s.u.)	6.65	6.88	5.43	5.78	5.8
Temperature (°C)	16.56	15.41	18.17	17.9	17.0
ORP (mV)	227.9	173.9	162.2	169.5	162.5
DO (mg/L)	7.37	2.08	2.41	3.25	2.8

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

A - Analyte detected in method blank.

< - Concentration less than the Quantitation Limit.

Table 5-2
Summary of Natural Attenuation Laboratory Results

PARAMETER[1]	LOCATION/SAMPLE DATE					
	MW2-1 11/29/2000	MW2-2 11/29/2000	MW4-2 11/28/2000	SW-1 11/29/2000	SW-101 11/28/2000	SW-102 11/28/2000
Wet Chemistry						
Alkalinity as CaCO3	140 A	110 A	50 A	24 A	73 A	110 A
Chloride	2.3	9.0	4.1	3.4	5.1	5.9
Ethane	0.0004	0.000011	0.00004	<0.000005	0.000051	0.000025
Methane	0.0054	0.008	0.00022	0.0035	0.0029	0.00018
Iron, total	3.6	19	3.3	7.7	4.6	43
Ferrous Iron	<1.0	2.4	<1.0	<1.0	<1.0	<1.0
Nitrogen, nitrate	0.3	<0.2	1.0	1.0	<0.2	<0.2
Nitrogen, nitrite	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sulfate	17	17	12	<10	<10	12
Sulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
TOC as NPOC - Filtered	4.9	3.5	2.7	2.3	2.0	2.0
Field Parameters						
pH (s.u.)	9.32	6.51	5.86	6.25	6.1	5.92
Temperature (°C)	NA	15.83	16.18	16.58	15.43	16.04
ORP (mV)	NA	139.6	217.8	240.2	186.6	121.7
DO (mg/L)	NA	0	4.29	36.46	5.2	0.07

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

A - Analyte detected in method blank.

< - Concentration less than the Quantitation Limit.

Table 5-3
Comparison of Groundwater Concentrations Collected from 2000 DP Wells and Adjacent 1999 PSVP Borings

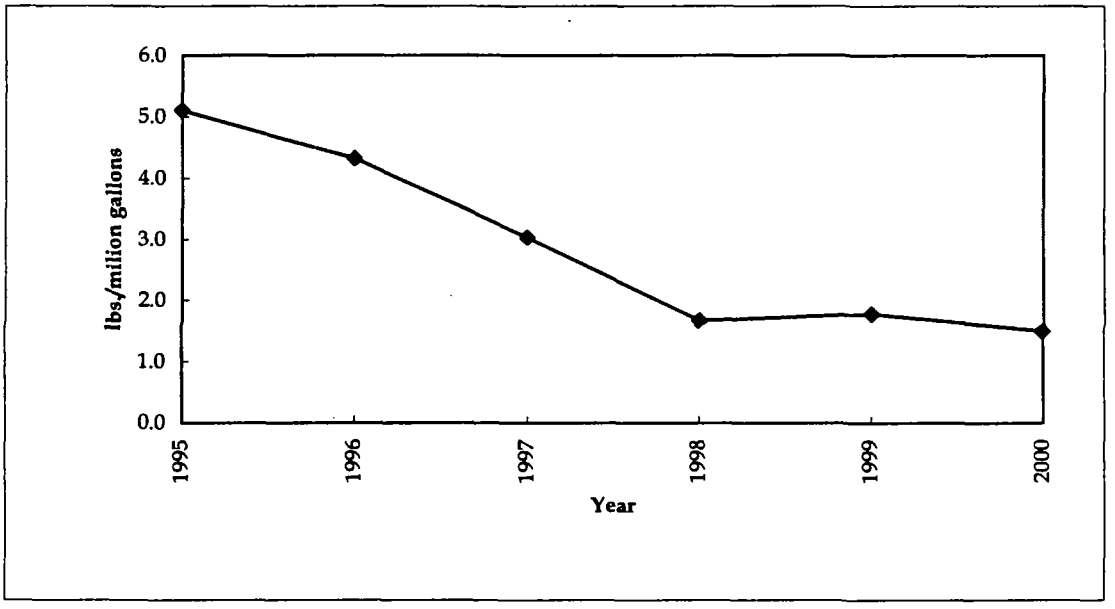
CONSTITUENT	CONCENTRATIONS IN GROUNDWATER (mg/L)					
	PSVP-2-1	DP-2-1	PSVP-3-4	DP-3-1	PSVP-3-5	DP-3-2
1,2-DCA	0.023	<0.001	8.9	0.0015	13	0.075
1,1-DCE	0.022	0.0026	<0.05	0.0077	0.22	0.14
TCE	0.59	0.046	4	0.12	2.8	0.97
PCE	0.3	0.067	0.027	0.028	0.071	0.8

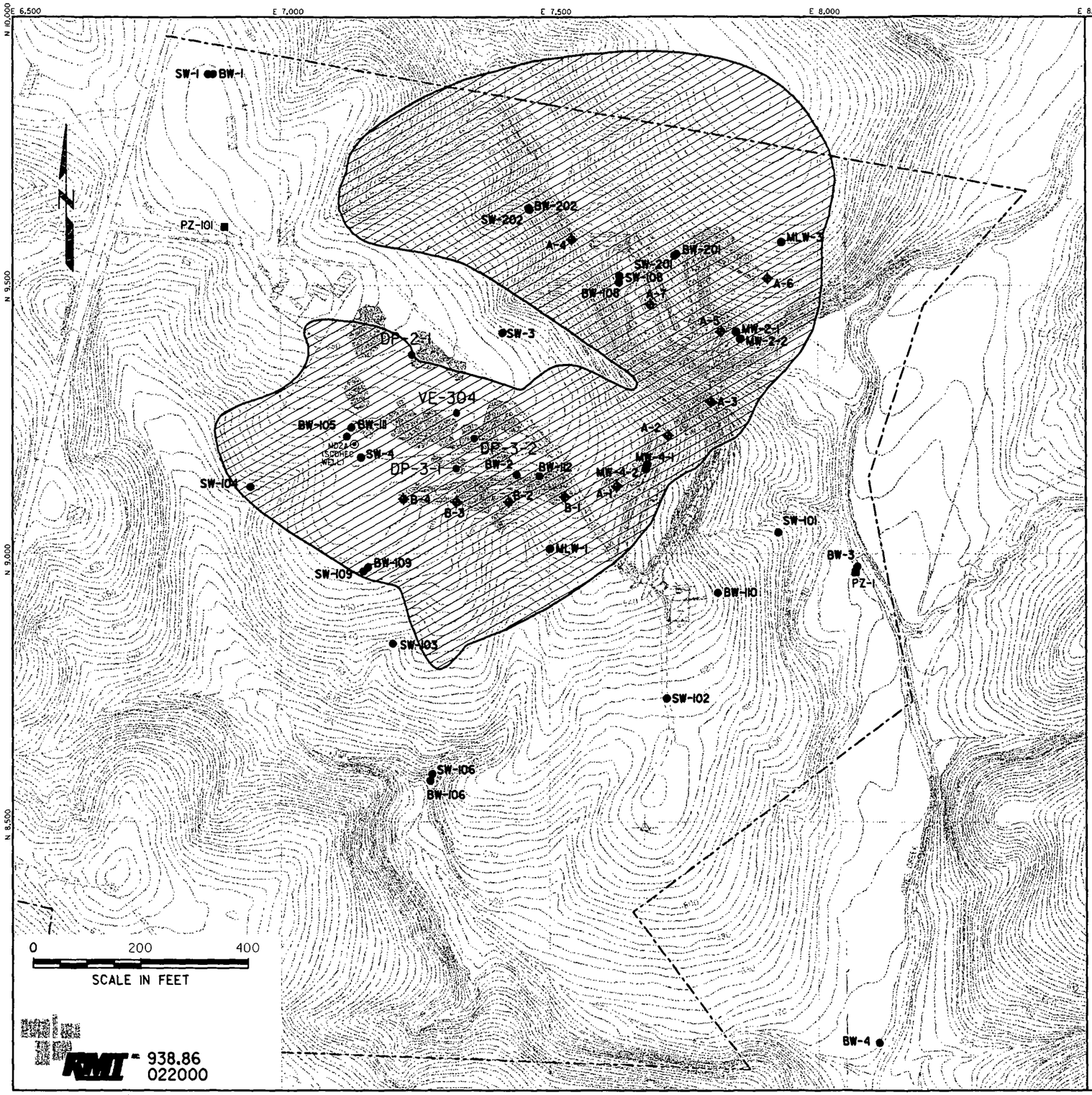
Table 5-4
Estimated VOC Mass Removed from Groundwater in 2000

RECOVERY WELL	PERCENT OF TOTAL	ESTIMATED VOLUME OF WATER RECOVERED		TVOCs	VOC MASS REMOVED		
		(gal)	(L)	(mg/L)	(kg)	(lb)	lb/Mgal
A-1	<1%	101,000	380,000	0.068	0.03	0.06	
A-2	11%	1,108,000	4,190,000	0.305	1.28	2.82	
A-3	6%	604,000	2,290,000	0.073	0.17	0.37	
A-4	10%	1,007,000	3,810,000	0.012	0.05	0.10	
A-5	11%	1,108,000	4,190,000	0.098	0.41	0.91	
A-6	21%	2,215,000	8,380,000	0.011	0.09	0.20	
A-7	8%	806,000	3,050,000	0.10	0.32	0.70	
A total		**6,949,000**	**26,290,000**		**2.3**	**5.2**	**0.74**
B-1	9%	906,000	3,430,000	0.074	.25	0.56	
B-2	13%	1,309,000	4,950,000	0.268	1.33	2.93	
B-3	4%	403,000	1,530,000	1.11	1.70	3.73	
B-4	5%	503,000	1,900,000	0.37	0.70	1.55	
B total		**3,121,000**	**11,810,000**		**4.0**	**8.8**	**2.81**
DP 2-1	1%	165,700	630,000	0.12	0.08	0.17	
DP 3-1	1%	132,500	500,000	0.17	0.08	0.19	
DP 3-2	<1%	32,600	120,000	2.12	0.25	0.58	
DP total		**330,800**	**1,250,000**		**0.4**	**0.94**	**2.72**
System total		**10,400,800**	**38,110,000**		**6.7**	**14.9**	**1.44**

Table 5-5
Historical Summary of Estimated VOC Mass Recovered from Groundwater

YEAR	ACTUAL VOLUME OF WATER RECOVERED (gal)	ESTIMATED VOC MASS REMOVED (lbs)	ESTIMATED RATE OF MASS REMOVAL (lbs/million gal)
1995	11,360,000	58	5.1
1996	14,110,000	61	4.3
1997	13,502,470	41	3.0
1998	15,560,000	26	1.7
1999	9,008,000	16	1.8
2000	10,069,800	15	1.5
Total	73,610,270	218	





LEGEND

SW-109	SAPROLITE MONITORING WELL
BW-201	TRANSITION ZONE MONITORING WELL
BW-105	BEDROCK MONITORING WELL
MLW-1	MULTI-LEVEL MONITORING WELL
A-4	RECOVERY WELL (SYSTEM A)
B-3	RECOVERY WELL (SYSTEM B)
PZ-1	PIEZOMETER
660	TOPOGRAPHIC INDEX CONTOUR
	PROPERTY LINE
	FENCE
	STREAM
	UNIMPROVED ROADS
	BUILDING
	MODELED EXTENT OF GROUND WATER CAPTURE.
	FORMER DRUM DISPOSAL AREA OR LAGOON

FIGURE 5-1

GROUNDWATER CAPTURE
AFTER 5 YEARS

MEDLEY FARM SITE
GAFFNEY, SC

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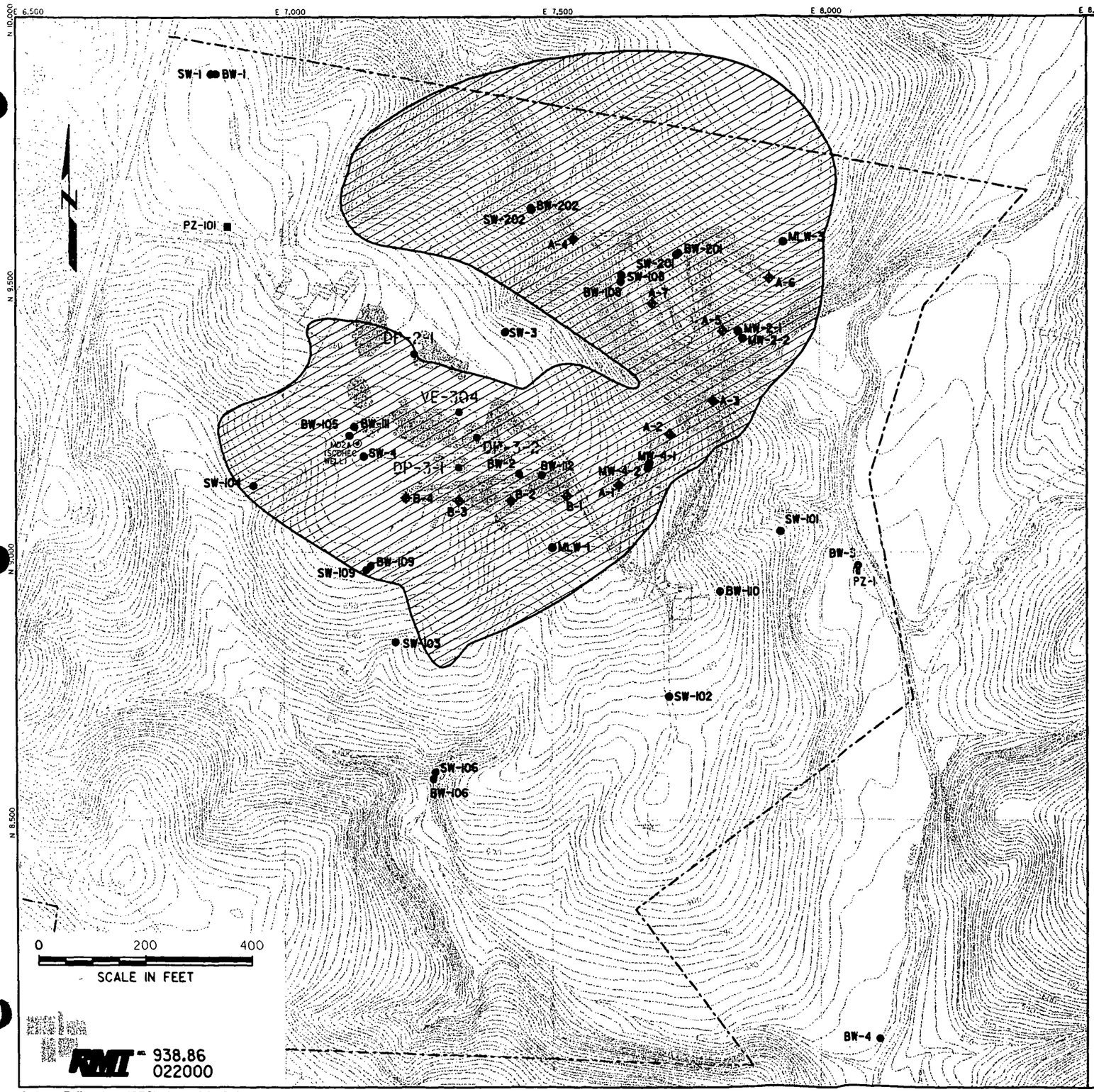
PAM 03-27-2001



LEGEND

SW-109	SAPROLITE MONITORING WELL
BW-201	TRANSITION ZONE MONITORING WELL
BW-105	BEDROCK MONITORING WELL
MLW-1	MULTI-LEVEL MONITORING WELL
A-4	RECOVERY WELL (SYSTEM A)
B-3	RECOVERY WELL (SYSTEM B)
PZ-1	PIEZOMETER
	TOPOGRAPHIC INDEX CONTOUR
	PROPERTY LINE
	FENCE
	STREAM
	UNIMPROVED ROADS
	BUILDING
	MODELED EXTENT OF GROUND WATER CAPTURE.
	FORMER DRUM DISPOSAL AREA OR LAGOON

FIGURE 5-1

GROUNDWATER CAPTURE AFTER 5 YEARS

MEDLEY FARM SITE
GAFFNEY, SC

j:/usr3/hydro/938h/new2000.CA5
PAM 02-20-2000

Section 6
Remediation of the Vadose Zone

SVE has been employed to remediate the unsaturated (vadose zone) soils in three SVE areas (Area 1, Area 2, and Area 3) as designated by the ROD. These areas were identified by USEPA as potentially being long-term sources of VOCs to the groundwater. Soil remediation has been completed in Areas 1 and 2; SVE operations continue in Area 3. Graphs of SVE performance data are provided in Appendix H and are referenced in this section. Laboratory reports from soil vapor sampling events are provided in Appendix I.

6.1 Background

Initially, a system of eight SVE wells was installed for soil vapor recovery. These wells were connected to an underground manifold and vacuum pump. The vacuum pump induces a vacuum on the SVE wells and draws soil vapors into the wells. The induced vacuum also propagates underground to a distance away from the SVE wells and can be measured as a vacuum radius of influence. VM wells were installed to monitor the vacuum radius of influence at various depths and locations to confirm the overall basis of design of the SVE system.

In June 1996, to further enhance VOC recovery, the VM wells were connected to the vacuum system and used to capture additional soil vapors. The SVE system operated on a 12-hour per day schedule, and recovered soil vapor from a total of 24 separate points. Figures illustrating the SVE system vacuum radius of influence have been presented in previous annual progress reports; in general, the system's previous radius of influence has been shown to cover the three SVE areas.

The 1999 PSVP verification sampling indicated that Area 1, Area 2 (except for a shallow, isolated sludge interval) and shallow soils in Area 3 (0 to 20 feet below land surface) meet site remediation goals. Therefore, in December 1999, recovery of soil vapors from the VE and the VM wells in Area 1 and Area 2 was discontinued.

The 1999 PSVP sampling results also detected VOCs in the soils in Area 3 below the effective depth of the SVE system and above the observed water table under pumping conditions. In October 2000, two DP (vapor and water) recovery wells (DP-301 and DP-302) and one SVE well (VE-304) were installed in Area 3 (see Figure 3-1 for locations of the wells). These additional wells for soil vapor removal were brought online in November 2000.

6.2 Soil Vapor Extraction Performance Monitoring Results

Table 6-1 summarizes the cumulative amounts of VOCs recovered through December 2000 since system startup, on a per area basis. Information for Area 3 is provided on a per-well basis since SVE operations continue in this area. As of December 2000, an estimated cumulative total of 2,021 pounds of VOCs has been recovered through SVE operations. The majority of the VOC mass removal has been accomplished in Area 3 (over 1,300 pounds of total VOCs), followed by Area 1 (at almost 500 pounds) and Area 2 (just under 200 pounds).

There are two new DP wells (DP-301 and DP-302), four VE wells (VE-301, VE-302, VE-303, and newly installed VE-304), and four VM well nests (VM-301, VM-302, VM-303, and VM-304) extracting soil vapor from Area 3. The historical VOC recovery rates for Area 3 are shown in Appendix H. Graphs presented in Appendix H illustrate the changes over time in total VOC recovery rates for Area 3. Overall, the total rate of VOC recovery has decreased since startup.

During 2000, the total VOC removal rate for the first seven months of 2000 (before the addition of DP-301, DP-302, and VE-304) was about 0.14 pounds per day (approximately 4 pounds per month). The actual amount recovered during 2000 was about 26 pounds during the first seven months of the year.

The system was down from August through October for installation of the new DP and VE wells. In November 2000, the SVE system was restarted and SVE stack samples were obtained. The sample results indicated VOCs detected at or below the laboratory quantitation limits. Testing of existing vacuum lines revealed several leaks in the subsurface piping, possibly caused by heavy equipment used during installation of the DP and VE wells. The system is scheduled for repair during February 2001; resampling will be conducted once the system is restarted following repair.

Table 6-1 shows that significant amounts (greater than 100 pounds) of VOCs have been recovered from VE-301, VE-302, VE-303, VM-301D, and VM-304S. The most VOCs were recovered from VE-303 (361 pounds). Graphs of historic VOC recovery rates (PCE, TCE, and total VOCs) are shown in Appendix H. These graphs show that the three parameters (PCE, TCE, and total VOCs) trend together and that current recovery rates are much lower than the historical maximums. The current VOC recovery rate at Area 3 is estimated at 0.14 pounds per day. This should be a conservative estimate of the VOC recovery rate, since the estimate is based on data obtained prior to operation of the DP wells. Resampling to be conducted after the SVE system repairs are complete will allow the development of a more representative removal rate.

6.3 Investigation of Affected Soil Near PSVB-2-1

Approximately 400 cubic feet of soil was excavated in October 2000 from an area immediately adjacent to the PSVB-2-1 boring location, after elevated VOC concentrations from PSVB-2-1 were detected in the 1999 confirmation soil sampling program. During soil excavation, photoionization detector readings indicated the highest VOC concentrations in the soil to be 2.5 feet to 3 feet below ground surface. Following soil removal, a soil sample was collected from the bottom of the excavation at approximately 4 feet below ground surface. PCE, TCE, 1,2-DCA and acetone were detected at concentrations well below the remediation target levels for soil. The analytical laboratory reports for the soil sample is provided in Appendix E. In January 2001, a composite soil sample representative of the soil pile was collected and analyzed for the special list of VOCs. The results of these analyses indicated that the VOC concentrations in the soil pile were below remedial goals. The soils were subsequently returned to the excavation and compacted.

Table 6-1
Cumulative Estimated Amount of VOCs Removed via Soil Vapor through 2000

WELL NUMBER	TCE (lbs)	1,1,1-TCA (lbs)	PCE (lbs)	1,2-DCA (lbs)	1,1-DCA (lbs)	1,2-DCE (lbs)	TOTAL (lbs)
Area 1 Total	269.24	12.47	152.26	53.87	3.75	5.52	497.09
Area 2 Total	69.05	2.28	108.58	1.18	1.59	7.66	190.34
Area 3							
VE-301	103.42	2.17	63.04	109.68	2.48	1.77	282.56
VE-302	71.9	0.77	7.46	98.94	0.79	1.71	181.57
VE-303	136.47	0.82	28.82	193.33	0.59	0.97	361.00
VM-301S	6.11	0.00	4.41	5.72	0.00	0.00	16.24
VM-301D	69.20	0.00	21.89	69.34	0.00	0.00	160.44
VM-302S	0.00	0.00	2.42	0.00	0.00	0.00	2.42
VM-302D	12.78	0.00	37.78	5.15	0.00	0.00	55.71
VM-303S	0.00	0.00	0.72	0.00	0.00	0.00	0.72
VM-303D	2.92	0.00	28.71	1.94	0.00	0.00	33.57
VM-304S	59.75	0.00	2.81	137.34	0.00	0.00	199.89
VM-304D	13.07	0.00	1.16	24.85	0.00	0.00	39.09
Area 3 Total	475.62	3.76	199.22	646.29	3.86	4.45	1,333.21
Total	**813.91**	**18.51**	**460.06**	**701.34**	**9.20**	**17.63**	**2,020.64**

The DP and VE-304 wells operated for only two months at the end of December. Data were not available for these wells for inclusion in this table (see text for explanation).

Section 7
Conclusions and Recommendations

The following conclusions and recommendations have been developed based on data collected from the Medley Farm NPL Site during 2000 and the data evaluations described in previous sections of this report.

7.1 Conclusions

- The groundwater remediation system has recovered and treated approximately 74 million gallons of water. This has resulted in the removal of approximately 218 pounds of VOCs from the groundwater since system startup in December 1995. The ratio of VOC mass recovery per volume of groundwater recovered has declined each year from a high in 1995 of 5.11 pounds of VOCs per million gallons (lb./Mgal) of groundwater recovered to a value of 1.5 lb./Mgal recovered in 2000. However, in the last three years, the ratio has remained relatively constant indicating that groundwater recovery may have become diffusion limited prior to installation of the DP wells.
- The performance of the groundwater treatment system continues to reduce VOC concentrations in the effluent well below NPDES requirements and achieve the objectives of the remedial design.
- The SVE treatment system has recovered over 2,000 pounds of VOCs from vadose zone soils since startup of the system in March 1995. Using the most recently measured recovery rate of 0.14 pounds of VOCs per day, the SVE system would reasonably recover an additional 50 pounds of VOCs by the end of 2001. However, this recovery rate was calculated from data collected prior to installation of the new DP and SVE wells. A more recent event conducted after the DP wells were installed yielded erroneous data. Additional soil vapor monitoring events conducted in 2001 will provide data for quantification of VOCs removed from the source area.
- The SVE system provides a much more effective removal of VOCs from the subsurface at the Medley Farm NPL Site than does groundwater recovery. Since remediation activities began, VOC removal via the SVE system is approximately 10 times greater than that of the groundwater recovery system (2,021 pounds versus 218 pounds total VOCs). This can be attributed to the difference between soil vapor permeability and hydraulic conductivity. In the time that it takes to recover a single pore-volume of groundwater from the aquifer, tens to hundreds of pore-volumes of soil vapor can be recovered. Thus, the use of DP wells expedites the recovery of VOCs from the former source area by dewatering the saturated soils and removing residual VOCs from the subsurface via the more effective remediation technology, SVE.

- The thin layer of VOC-impacted soil identified in boring PSVB-2-1 during the 1999 performance standards verification (PSV) sampling was investigated in October 2000. Soil samples collected from pile of excavated soils and from the bottom of the excavation confirmed that VOC concentrations were below PSVP standards. Thus, remediation of the vadose zone soils in SVE Area 2 is complete.
- DP and vapor recovery wells installed in Areas 2 and 3 during 2000 provide for enhanced removal of VOCs from these identified former source areas. VOC concentrations observed in the new wells were lower than concentrations observed during the PSVP. Differences in concentrations are likely due to differences in well screen intervals. In addition, sampling methodology used on the DP wells may have had some influence on the lower VOC concentrations observed.
- Results of the fourth quarter 2000 sampling program for assessment of natural attenuation potential of chlorinated compounds indicate that under the present pumping conditions, anaerobic biodegradation of chlorinated compounds is not currently a major factor in the attenuation of VOCs in groundwater at the site. However, it is possible that conditions conducive for aerobic biodegradation could be established at the site once SVE is discontinued and soil moisture is re-established.
- VOC concentrations at monitoring wells MW-4-1 and MW-4-2 increased during 2000. These observations suggest that the main downgradient mass of the VOC plume continues to move toward the recovery wells. There may be other possible explanations for these increases. However, the fluctuation in VOC concentrations observed at the two monitoring wells are likely associated with cyclic pumping of the A-system wells. Nonetheless, VOC concentrations in downgradient wells SW-101 and BW-110 have not increased during this time period, indicating that VOC-impacted groundwater is not moving beyond the recovery system.
- TCE and PCE were detected in monitoring well SW-3 at concentrations of 0.62 and 0.76 mg/L, respectively in December 1994. Since that time, the well has been dry with start-up of the groundwater recovery system in 1995. In addition, results from the revised groundwater model indicate that capture of groundwater from this area maybe incomplete.

7.2 Recommendations

Based on observations made during treatment system operations in 2000 and data acquired through groundwater and soil sampling, the following recommendations and operational modifications are proposed.

As with previous years, quarterly and annual groundwater sampling will be conducted in 2001 to refine the VOC plume distribution and to allow for overall evaluation of corrective measures as provided for in the PSVP.

Groundwater samples will be collected from the former source area DP wells quarterly for one year. If possible, a sampling procedure will be employed which minimizes the loss of VOCs

during sample collection. Concentration data from the DP wells will be used to quantify the reduction of VOCs from the former source area and thus allow estimation of time required for completion of groundwater remediation.

The SVE system will be sampled quarterly for one year after which time, the results will be evaluated to determine the appropriate monitoring frequency for subsequent events. SVE sampling events will coincide with groundwater sampling.

Intermittent operation of the A-series wells is recommended to continue during 2001. In addition, intermittent operation of recovery well DP-3-1 is recommended. As discussed during the May 2001 annual meeting, this well will be shut down temporarily for 1 to 2 weeks per month to allow the water table to rise in the former source area, in order to collect water samples from recovery wells DP-2-1 and DP-3-2 which have gone dry. These activities constitute TMMs as described in the Statement of Work for the Medley Farm NPL Site.

A 2 inch polyvinyl chloride (PVC) monitoring well MW-3D will be installed adjacent to well SW-3 to characterize the VOC concentration remaining in groundwater in that area. The well will be installed to a depth such that groundwater samples may be collected while the recovery system is operating and the water table is depressed. The well will be constructed similar to that of MW-2-1 and MW-4-1. The well will be installed in 2001 and will be included in the third quarter sampling event. Results from this investigation will be presented to USEPA and SC DHEC in a technical memorandum.

Figure 7-1 Remediation Systems Operation and Monitoring Schedule

Qtr	W/E	A SYSTEM	B SYSTEM	DP SYSTEM	QSE	NPDES MONITORING BOD	pH	VOCs	TOXICITY	SVE MONITORING
1	5-Jan-00	R	R	R		X	X	X		
	12-Jan-00	R	R	R		X	X	X	X	
	19-Jan-00	R	R	R		X	X	X		X
	26-Jan-00	R	R	R		X	X	X		
	2-Feb-00		R	R		X	X	X		
	9-Feb-00		R	R		X	X	X		
	16-Feb-00	R	R	R		X	X	X		
	23-Feb-00	R	R	R		X	X	X		
	1-Mar-00	R	R	R		X	X	X		
	8-Mar-00	R	R	R		X	X	X		
	15-Mar-00		R	R		X	X	X		
	22-Mar-00	R	R	R	X	X	X	X		
	29-Mar-00	R	R	R		X	X	X		
2	5-Apr-00	R	R	R		X	X	X		
	12-Apr-00	R	R	R		X	X	X	X	
	19-Apr-00	R	R	R		X	X	X		X
	26-Apr-00		R	R	X	X	X	X		
	3-May-00	R	R	R		X	X	X		
	10-May-00	R	R	R		X	X	X		
	17-May-00	R	R	R		X	X	X		
	24-May-00	R	R	R		X	X	X		
	31-May-00	R	R	R		X	X	X		
	7-Jun-00		R	R		X	X	X		
	14-Jun-00	R	R	R		X	X	X		
	21-Jun-00	R	R	R		X	X	X		
	28-Jun-00	R	R	R		X	X	X		
3	5-Jul-00	R	R	R		X	X	X		
	12-Jul-00	R	R	R		X	X	X	X	
	19-Jul-00	R	R	R		X	X	X		X
	26-Jul-00		R	R	X	X	X	X		
	2-Aug-00	R	R	R		X	X	X		
	9-Aug-00	R	R	R		X	X	X		
	16-Aug-00	R	R	R		X	X	X		
	23-Aug-00	R	R	R		X	X	X		
	30-Aug-00	R	R	R		X	X	X		
	6-Sep-00		R	R		X	X	X		
	13-Sep-00	R	R	R		X	X	X		
	20-Sep-00	R	R	R		X	X	X		
	27-Sep-00	R	R	R		X	X	X		
4	4-Oct-00	R	R	R		X	X	X		
	11-Oct-00	R	R	R		X	X	X	X	
	18-Oct-00		R	R		X	X	X		X
	25-Oct-00	R	R	R	X	X	X	X		
	1-Nov-00	R	R	R		X	X	X		
	8-Nov-00	R	R	R		X	X	X		
	15-Nov-00	R	R	R		X	X	X		
	22-Nov-00		R	R		X	X	X		
	29-Nov-00	R	R	R		X	X	X		
	6-Dec-00	R	R	R		X	X	X		
	13-Dec-00	R	R	R		X	X	X		
	20-Dec-00	R	R	R		X	X	X		
	27-Dec-00	R	R	R		X	X	X		

QSE = Quarterly Groundwater Sampling Event
R = System Running
Blank indicates system shut down period.
BOD = Biochemical Oxygen Demand

Section 8
References

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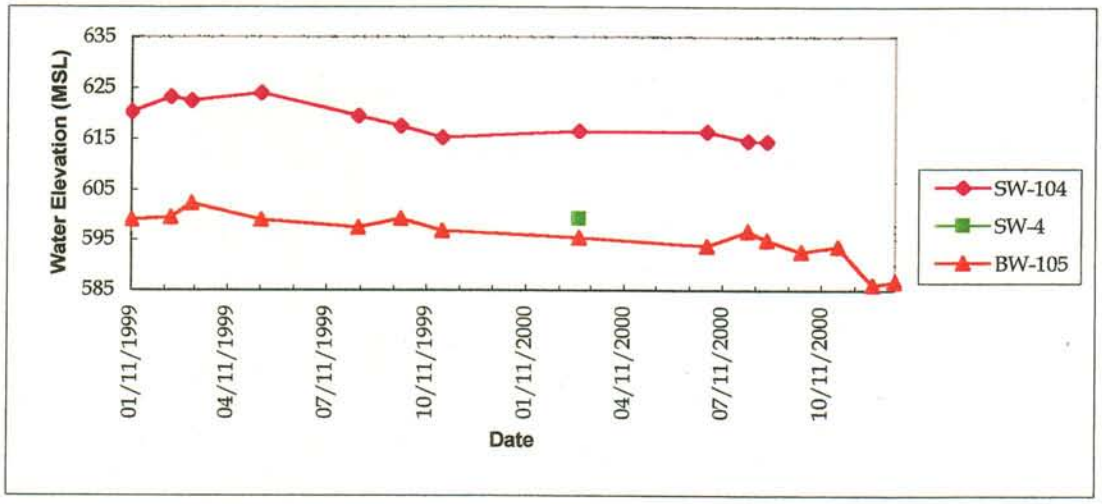
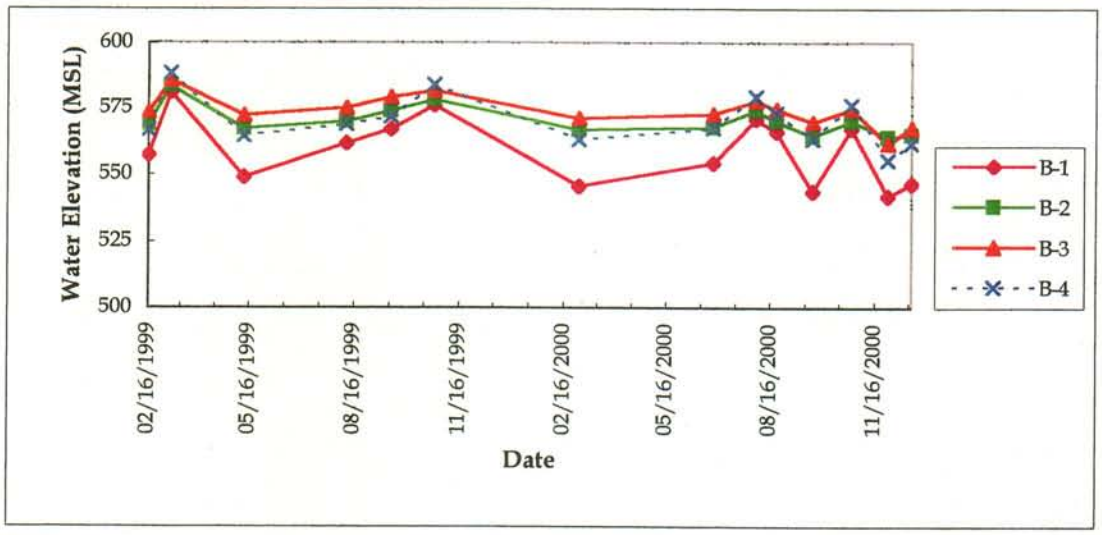
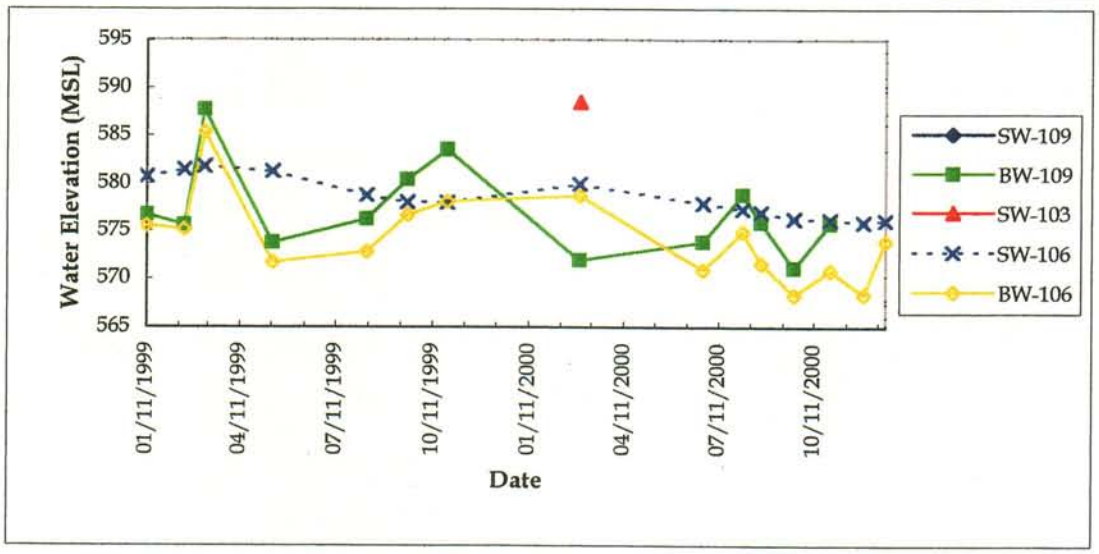
Appendix A
Hydrographs of Monitoring and Groundwater Extraction Wells

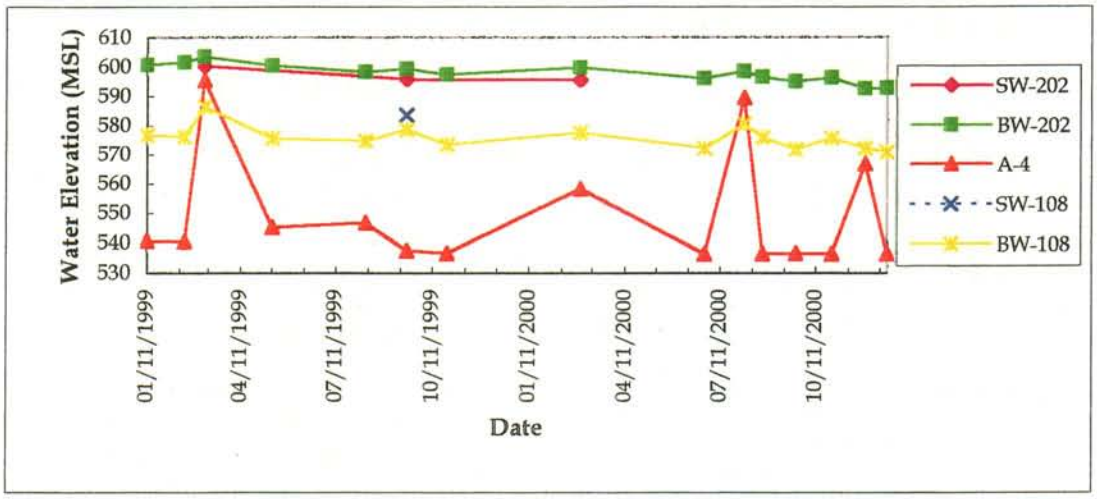
Appendix A
Hydrographs of Monitoring and Recovery Wells

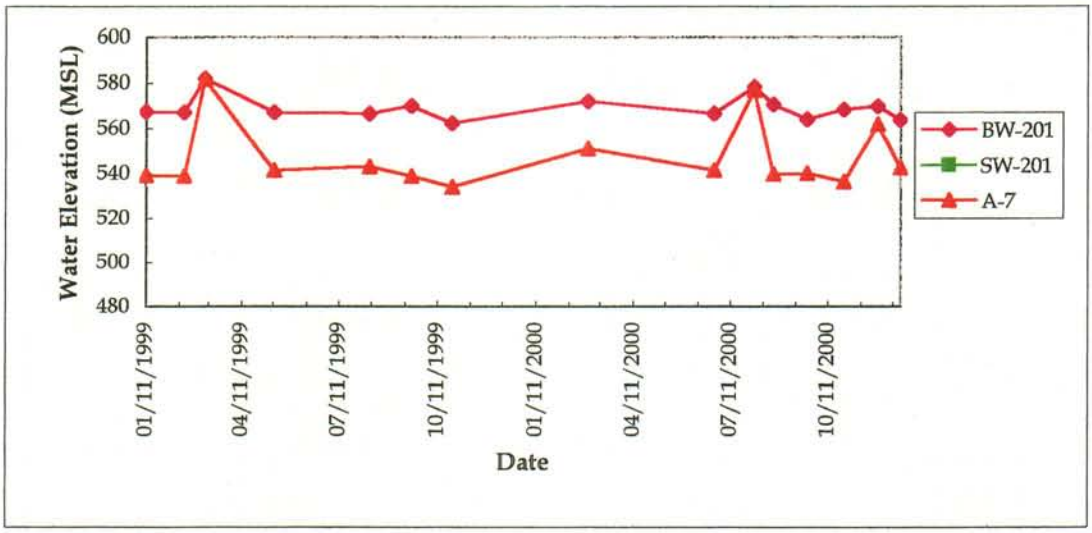


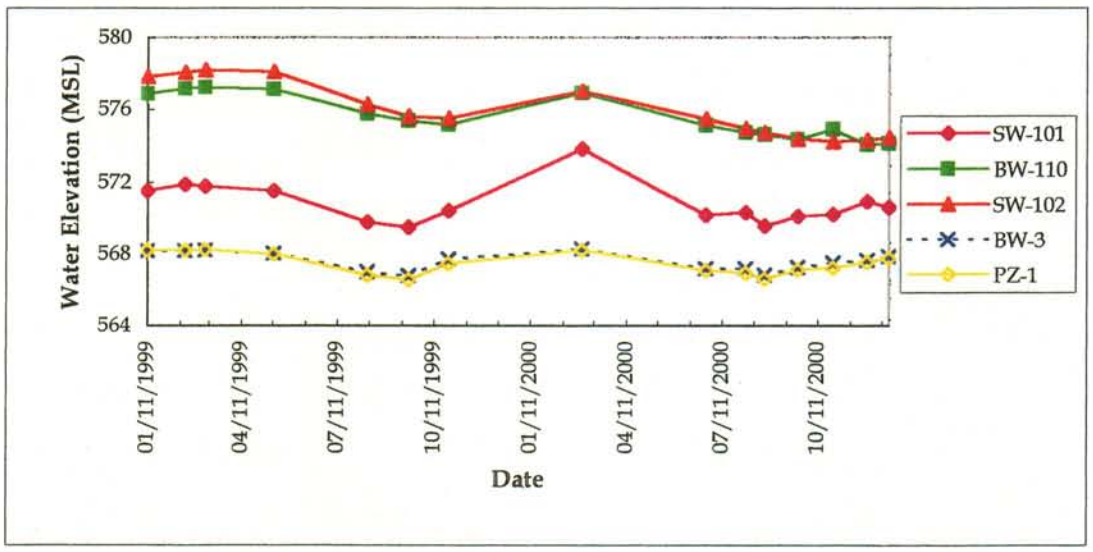




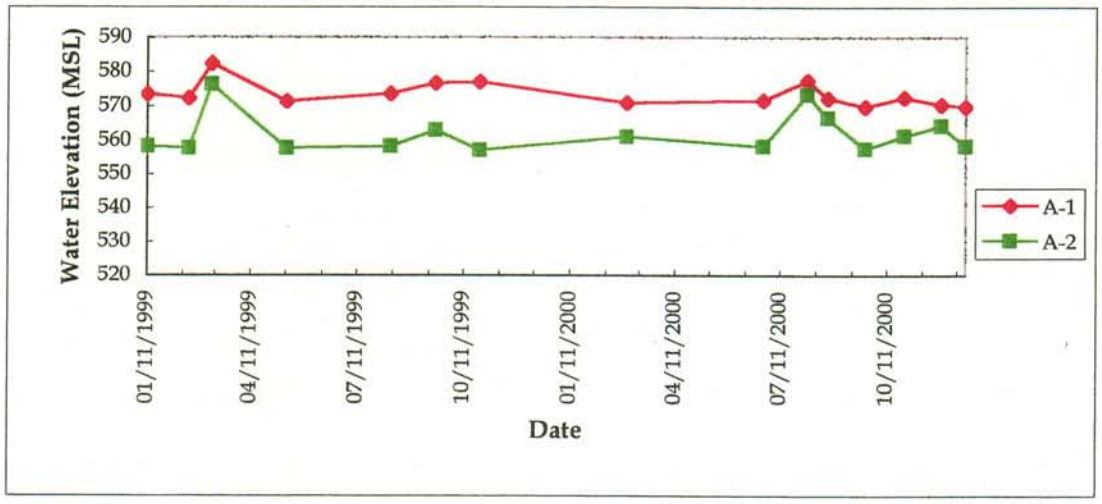
Appendix A
Hydrographs of Monitoring and Recovery Wells

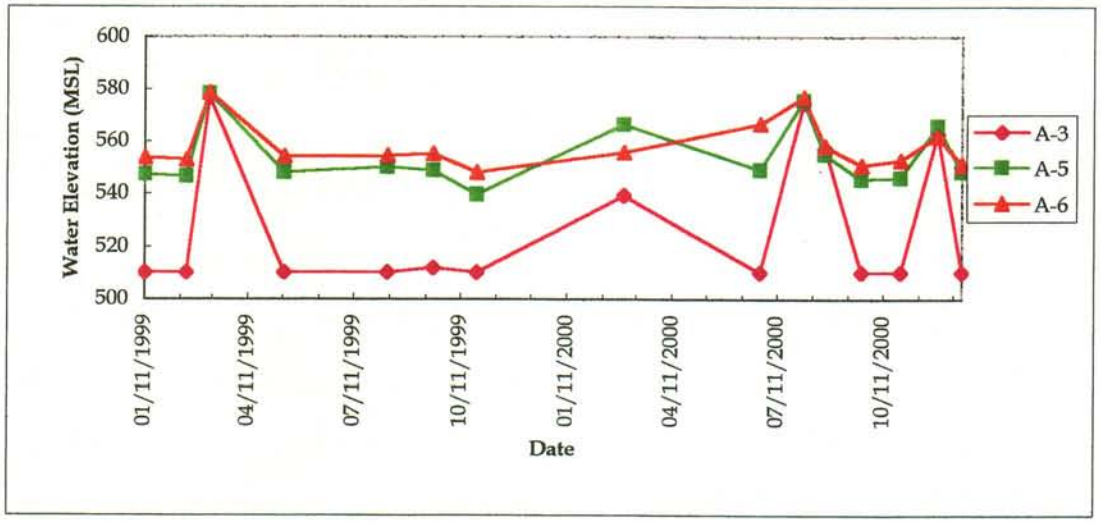


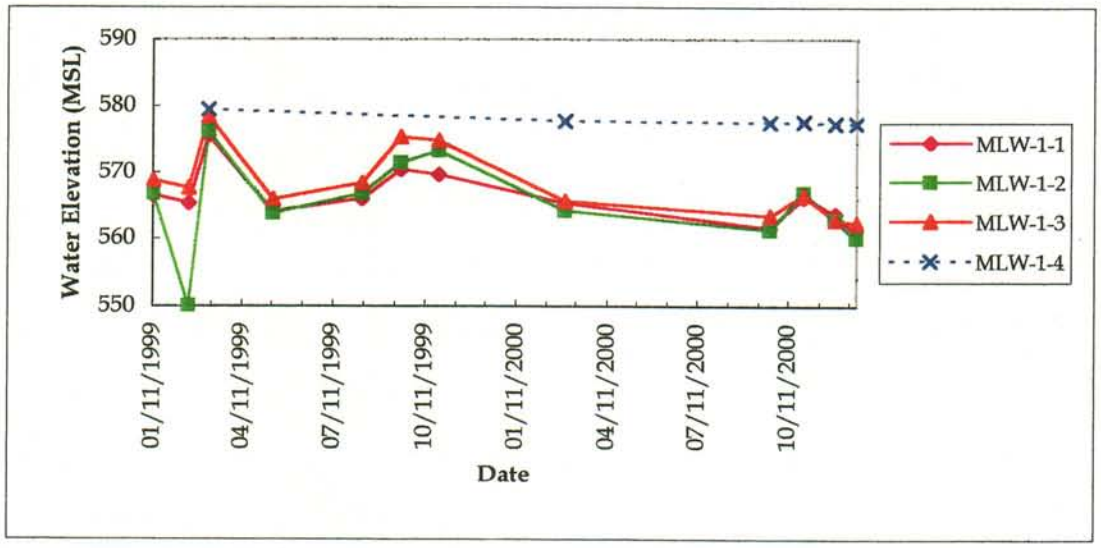




Appendix A
Hydrographs of Monitoring and Recovery Wells







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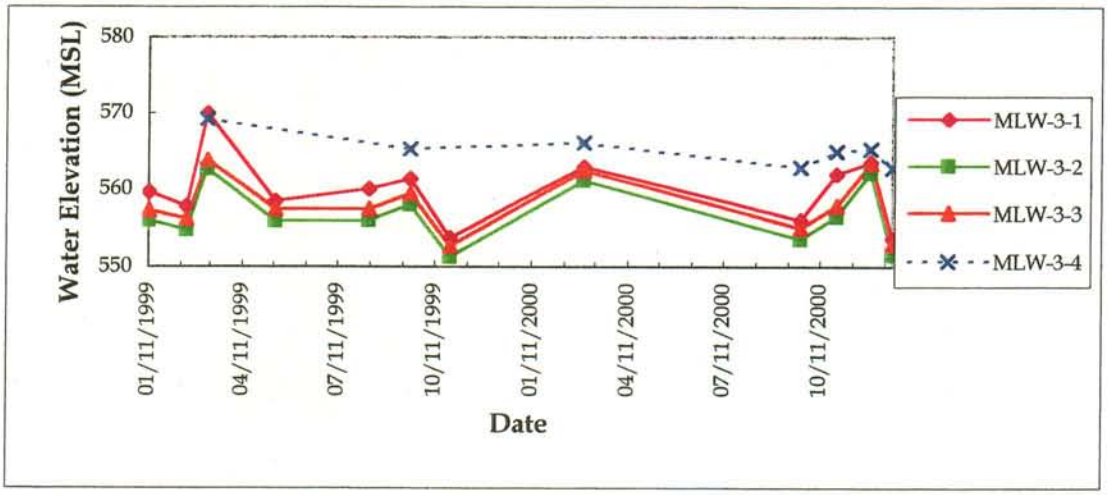
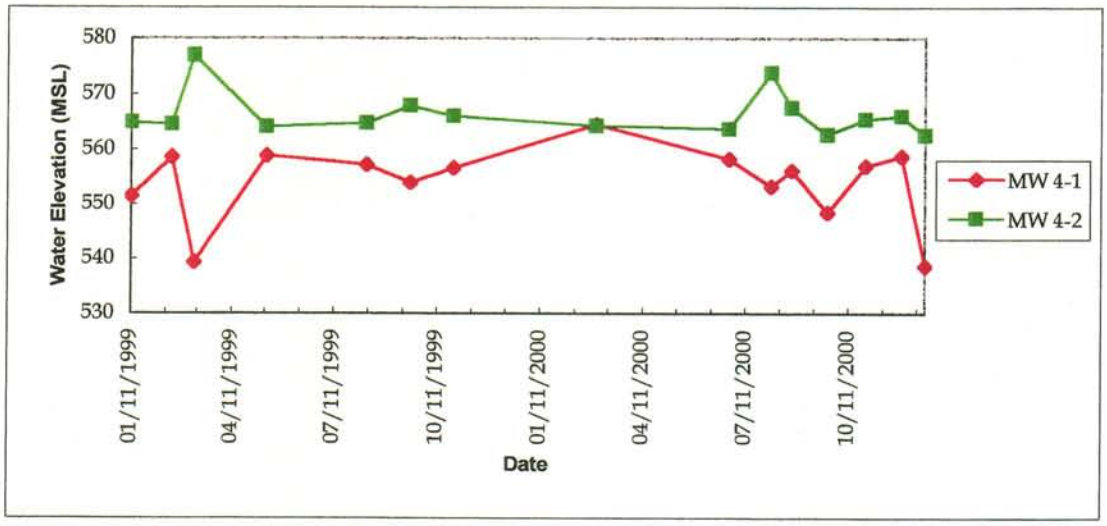
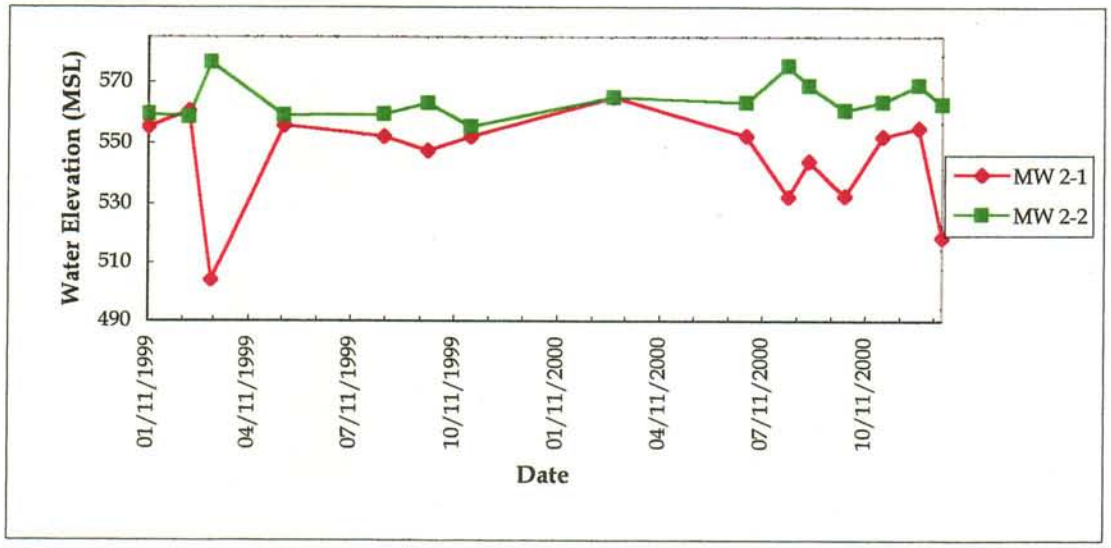
Hydrographs of Monitoring and Recovery Wells







Appendix B
Soil Boring Logs and Well Construction Diagrams for 2000 Soil Vapor Extraction and Dual-phase Wells

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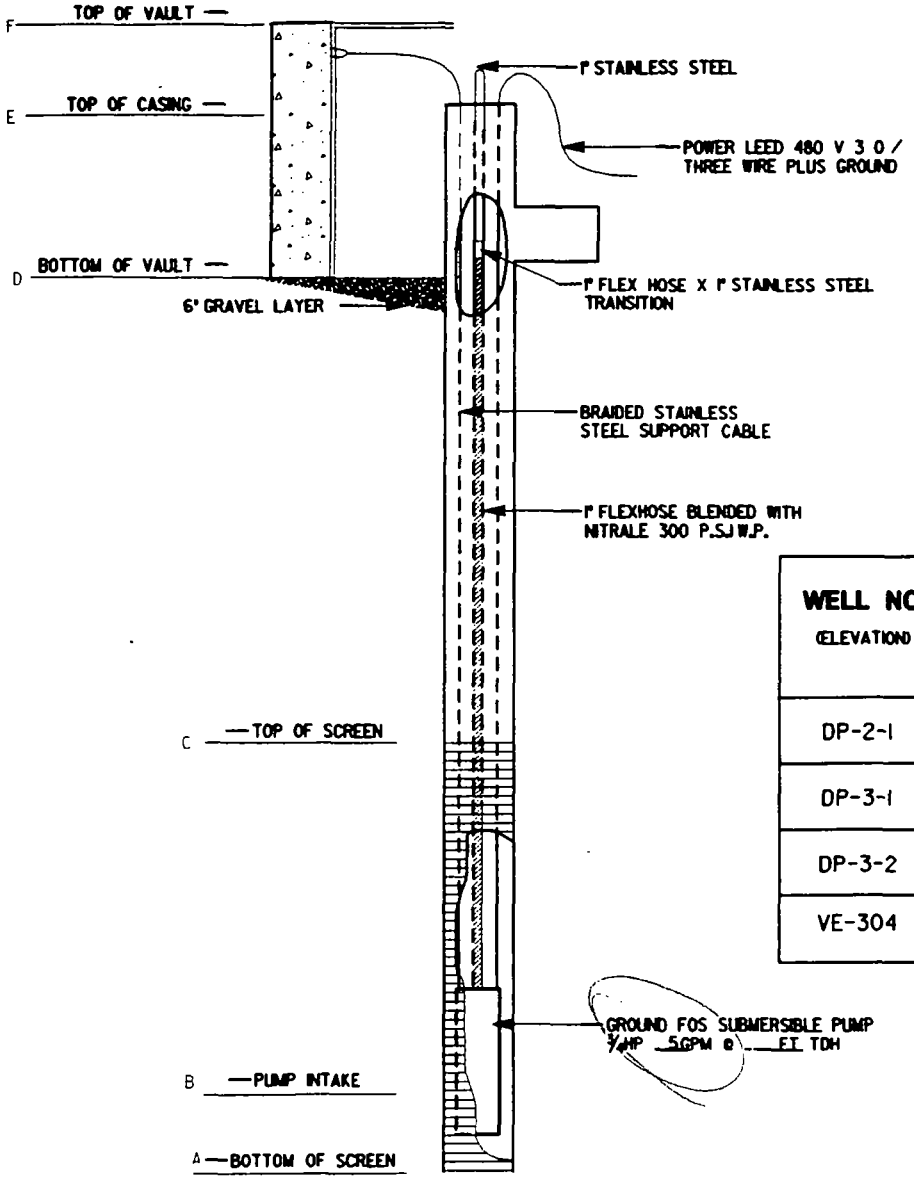

WELL NO. (ELEVATION)	DEPTH (FT.) FROM LAND SURFACE					
	A (FT)	B (FT)	C (FT)	D (FT)	E (FT)	F (FT)
DP-2-1	-120	-115	-65.0	-1.0	0.0	+0.5
DP-3-1	-149	-145	-64.0	-1.0	0.0	+0.5
DP-3-2	-144	-140	-69.0	-1.0	0.0	+0.5
VE-304	-80	NA	-55	-1.0	0.0	+0.5

SUMMARY OF GROUNDWATER AND VAPOR EXTRACTION WELL CONSTRUCTION DETAILS

Not To Scale

PROJECT MEDLEY FARMS
PROJECT NO. 938.94
WELL NO.
DATE INSTALLED 6/12/00 - 6/15/00
DRILLING CONTRACTOR McCALL BROS.
RMT TECHNICIAN BILL SHARP

RMT

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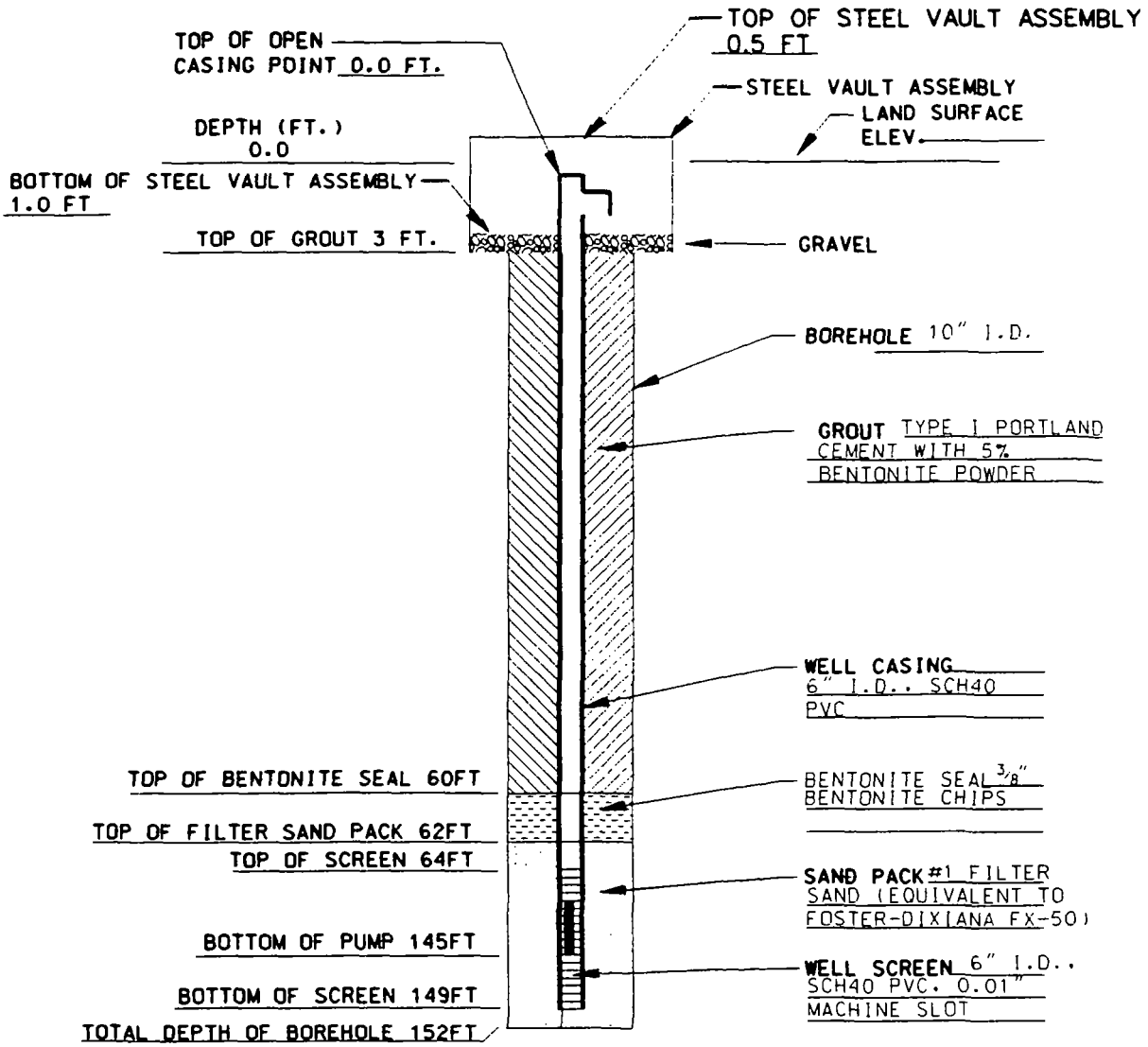


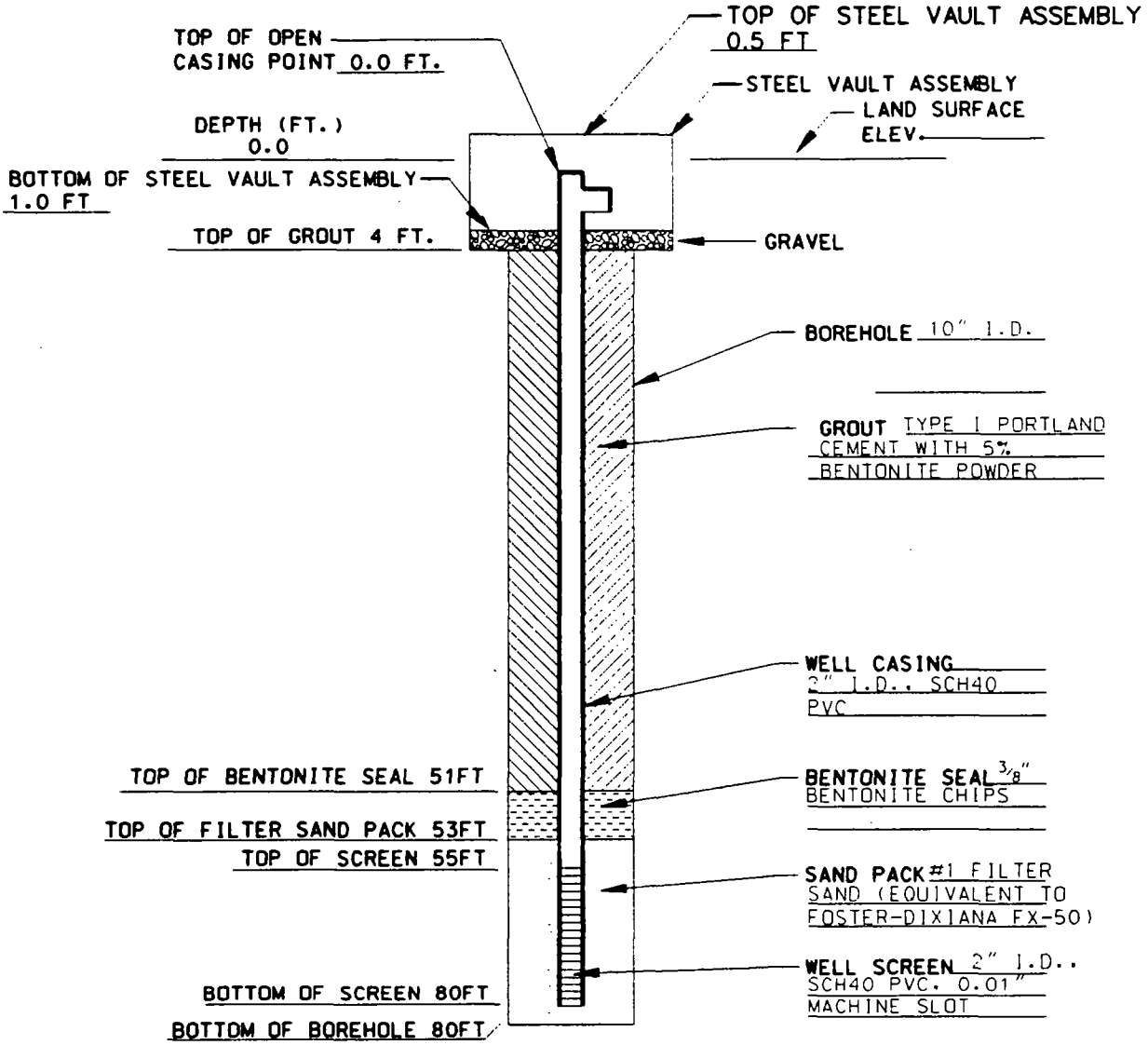
DUAL PHASE RECOVERY WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT MEDLEY FARMS
PROJECT NO. 938.94
WELL NO. DP-3-1
DATE INSTALLED 6/15/00
DRILLING CONTRACTOR McCALL BROS.
RMT TECHNICIAN BILL SHARP

RMT.

J:CAD*APRIL*HYDRO*93894±0*WELLDIAGRAM /EL72000.WEL



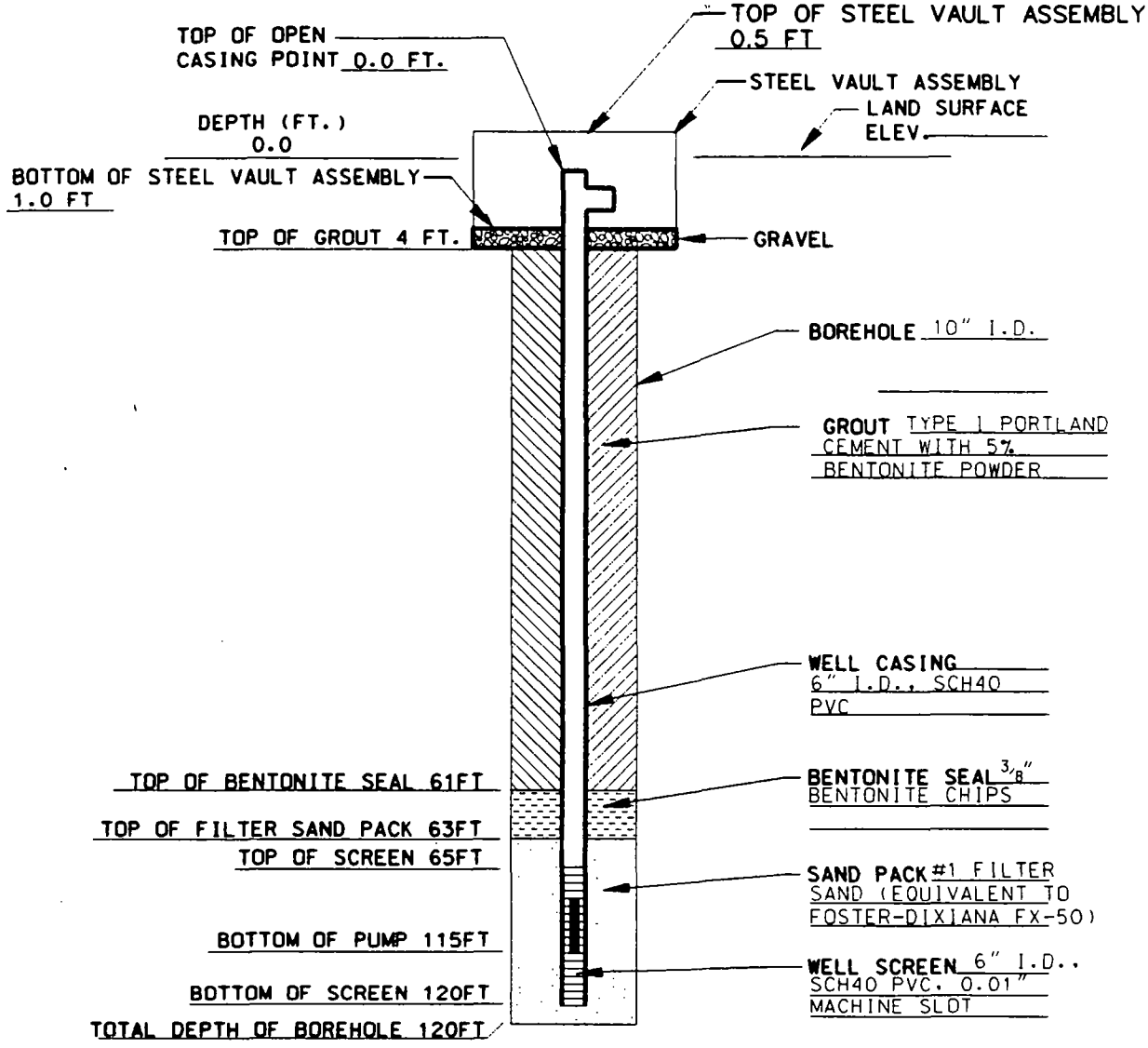
VAPOR EXTRACTION WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT MEDLEY FARMS
PROJECT NO. 938.94
WELL NO. VE - 304
DATE INSTALLED 6/12/00
DRILLING CONTRACTOR McCALL BROS.
RMT TECHNICIAN BILL SHARP

RMT

J:CAD*APRIL*HYDRO*93894±0*WELLDIAGRAM*WEL72000.WEL



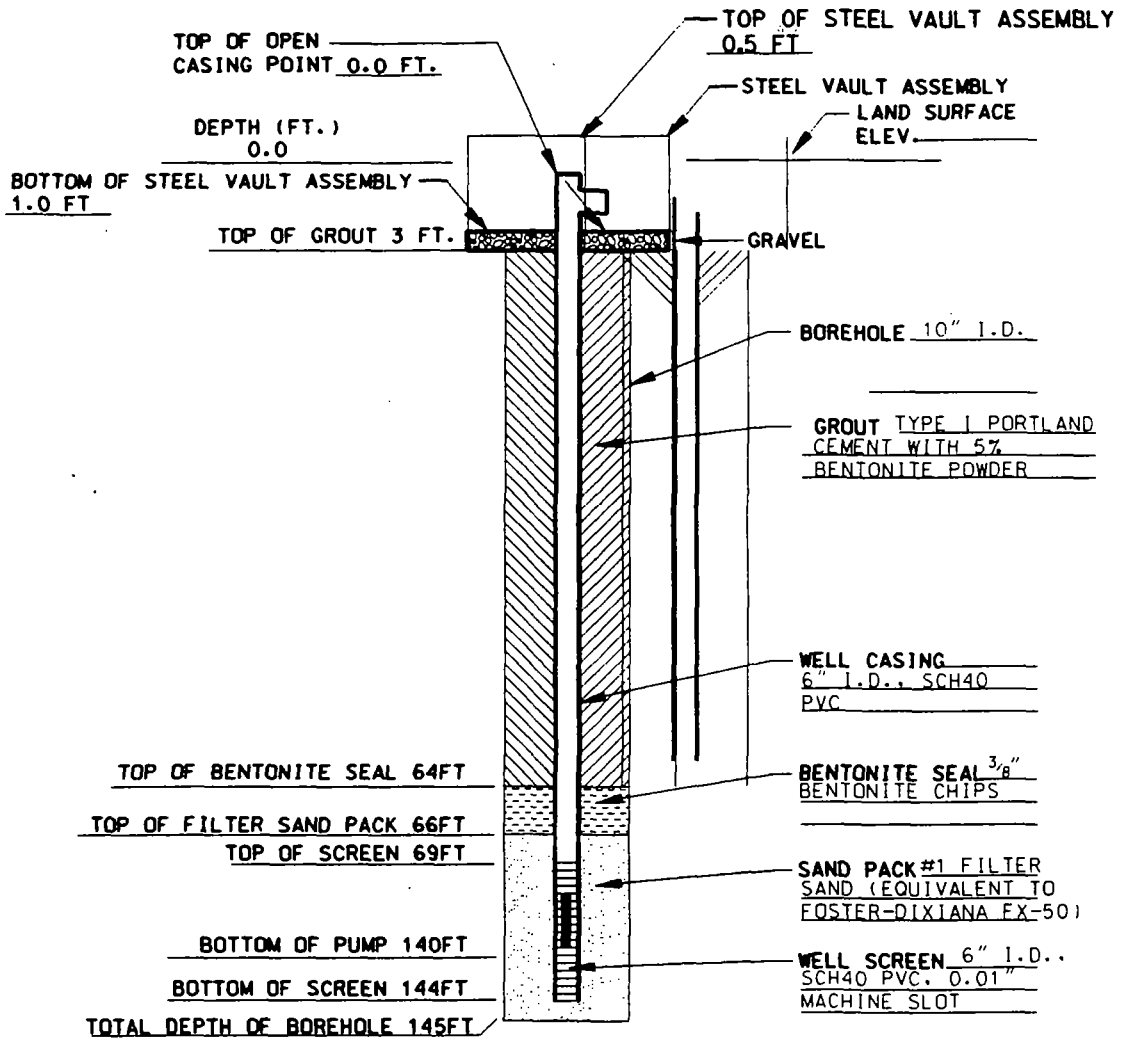
DUAL PHASE RECOVERY WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT MEDLEY FARMS
PROJECT NO. 938.94
WELL NO. DP-2-1
DATE INSTALLED 6/13/00
DRILLING CONTRACTOR McCALL BROS.
RMT TECHNICIAN BILL SHARP

RMT

J:CAD/APRIL/HYDRO/93894/2000/WELLDIAGRAMS/WEL72000.WEL



DUAL PHASE RECOVERY WELL CONSTRUCTION DIAGRAM

Not To Scale

PROJECT MEDLEY FARMS
PROJECT NO. 938.94
WELL NO. DP-3-2
DATE INSTALLED 6/14/00
DRILLING CONTRACTOR McCALL BROS.
RMT TECHNICIAN BILL SHARP

RMT

SOIL BORING LOG

RMT INC.

BORING NO. DP-2-1

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-12-00	6-13-00	1 3

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	120.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					1–9		LEAN CLAY (CL) - some fine grained sand; micaceous; brownish red; low plasticity; dry to slightly moist; medium stiff.
					10–14		SILTY CLAY (CL) - micaceous; reddish brown; abundant mica; low plasticity; dry to slightly moist; medium stiff. [Saprolite]
					15–20		SILTY SAND (SM) - fine grained; some clay; micaceous; reddish brown; slightly moist; medium dense. [Saprolite]
					21–24		SANDY SILT (ML) - fine grained sand; micaceous; light brown; low plasticity; slightly moist; medium stiff to soft. [Saprolite]
					25–40		SANDY SILT (ML) - fine grained sand; micaceous; blonde to olive gray; low plasticity; slightly moist; medium stiff to soft. [Saprolite]

Continued Next Page

SOIL BORING LOG

RMT INC.

BORING NO. DP-2-1

Client: MEDLEY FARMS	Drilling Start Date: 6-12-00	Drilling End Date: 6-13-00	Page 2 of 3
Site: GAFFNEY, SC	Drilling Method: AIR ROTARY		Project Number: 938.94
Geologist/Technician: W.R. SHARP	Driller (name/company): MC CALL BROS.	Drill Rig Type: INGERSOLL RAND D01	Borehole Diameter (in.): 10.0
Boring Coordinates: N: E:	Total Depth (ft.): 120.00	Measuring Point Elevation (ft.):	
Datum Description:	Datum Elevation (ft.):	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					42		LEAN SILT (ML) - some fine grained sand; micaceous; blonde to olive tan; low plasticity; slightly moist; medium stiff. [Saprolite]
					43		
					44		
					45		LEAN SILT (ML) - some fine grained sand; trace weathered rock fragments; micaceous; blonde to light olive brown; low plasticity; slightly moist; medium stiff. [Saprolite]
					46		
					47		
					48		
					49		
					50		
					51		
					52		
					53		
					54		
					55		- as above; increasing amount weathered rock fragments; some dark weathered rock fragments.
					56		
					57		
					58		
					59		
					60		
					61		
					62		
					63		
					64		
					65		SILTY SAND (SM) - fine grained sand; some dark colored weathered rock fragments; micaceous; blonde to light olive brown; low plasticity; medium dense. [Transition Zone]
					66		
					67		
					68		
					69		
					70		
					71		
					72		
					73		
					74		
					75		SILTY SAND (SM) - fine grained; abundant weathered rock fragments; olive gray; low plasticity; slightly moist; medium dense. [Transition Zone]
					76		
					77		
					78		
					79		Top of Rock
					80		MICA AMPHIBOLE SCHIST - partially weathered to unweathered; olive grey.
					81		

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Greenville (ver. 9/1/97)

Continued Next Page

SOIL BORING LOG

RMT INC.

BORING NO. DP-2-1

Client: MEDLEY FARMS	Drilling Start Date: 6-12-00	Drilling End Date: 6-13-00	Page 3 of 3
Site: GAFFNEY, SC	Drilling Method: AIR ROTARY		Project Number: 938.94
Geologist/Technician: W.R. SHARP	Driller (name/company): MC CALL BROS.	Drill Rig Type: INGERSOLL RAND D01	Borehole Diameter (in.): 10.0
Boring Coordinates: N: E:	Total Depth (ft.): 120.00	Measuring Point Elevation (ft.):	
Datum Description:	Datum Elevation (ft.):	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					83		MICA AMPHIBOLE SCHIST - partially weathered to unweathered; olive grey.
					84		
					85		
					86		
					87		
					88		
					89		
					90		
					91		
					92		
					93		
					94		
					95		
					96		
					97		
					98		
					99		
					100		
					101		
					102		
					103		
					104		
					105		
					106		
					107		
					108		
					109		
					110		
					111		
					112		
					113		
					114		
					115		
					116		
					117		
					118		
					119		
					120		**BORING TERMINATED AT 120.0 FEET**
					121		**No samples collected - boring logged from cuttings.**
					122		

SOIL BORING LOG

RMT INC.

BORING NO. DP-3-1

Client: MEDLEY FARMS	Drilling Start Date: 6-14-00	Drilling End Date: 6-14-00	Page 1 of 4
Site: GAFFNEY, SC	Drilling Method: AIR ROTARY		Project Number: 938.94
Geologist/Technician: W.R. SHARP	Driller (name/company): MC CALL BROS.	Drill Rig Type: INGERSOLL RAND D01	Borehole Diameter (in.): 10.0
Boring Coordinates: N: E:	Total Depth (ft.): 152.00	Measuring Point Elevation (ft.):	
Datum Description:	Datum Elevation (ft.):	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					1–9		SILTY CLAY (CL) - micaceous; reddish brown to maroon; slightly moist.
					10–14		CLAYEY SILT (ML) - micaceous; reddish brown to maroon; dry to slightly moist. [Saprolite]
					15–24		LEAN SILT (ML) - some clay and fine grained sand; micaceous; brown with slight red tint; low plasticity; dry to slightly moist. [Saprolite]
					25–40		LEAN SILT (ML) - micaceous; light olive brown to gray; low plasticity; slightly moist. [Saprolite]

Continued Next Page

SOIL BORING LOG

RMT INC.

BORING NO. DP-3-1

Client: MEDLEY FARMS	Drilling Start Date: 6-14-00	Drilling End Date: 6-14-00	Page 2 of 4
Site: GAFFNEY, SC	Drilling Method: AIR ROTARY		Project Number: 938.94
Geologist/Technician: W.R. SHARP	Driller (name/company): MC CALL BROS.	Drill Rig Type: INGERSOLL RAND D01	Borehole Diameter (in.): 10.0
Boring Coordinates: N: E:	Total Depth (ft.): 152.00	Measuring Point Elevation (ft.):	
Datum Description:	Datum Elevation (ft.):	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					42		SANDY SILT (ML) - fine grained sand; micaceous; light olive brown; low plasticity; slightly moist. [Saprolite]
					43		
					44		
					45		
					46		
					47		
					48		
					49		
					50		SILTY SAND (SM) - fine grained sand; micaceous; light olive brown; slightly moist; medium dense. [Saprolite]
					51		
					52		
					53		
					54		
					55		
					56		
					57		
					58		
					59		
					60		
					61		- as above; olive gray.
					62		
					63		
					64		
					65		
					66		-as above; less silt.
					67		
					68		
					69		
					70		
					71		
					72		
					73		
					74		
					75		
					76		
					77		
					78		
					79		
					80		
					81		- as above - few weathered rock fragments.

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SOIL BORING LOG

RMT INC.

BORING NO. DP-3-1

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-14-00	6-14-00	3 4

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	152.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					83		
					84		SILTY SAND (SM) - fine grained sand; few weathered rock fragments; micaceous; light olive brown to blonde; slightly moist; medium dense. [Saprolite]
					85		
					86		
					87		
					88		
					89		
					90		
					91		
					92		
					93		
					94		
					95		
					96		- as above; increasing amount of weathered rock fragments with depth. [Transition Zone]
					97		
					98		
					99		
					100		
					101		- as above; less silt.
					102		
					103		
					104		
					105		SILTY SAND (SM) - very fine grained; mica schist rock fragments; micaceous; light olive brown to grayish blonde; slightly moist. [Transition Zone]
					106		
					107		
					108		
					109		Top of Rock
					110		MICA AMPHIBOLE SCHIST - olive brown; moist.
					111		
					112		
					113		
					114		
					115		
					116		
					117		
					118		
					119		
					120		
					121		
					122		

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SOIL BORING LOG

RMT INC.

BORING NO. DP-3-1

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-14-00	6-14-00	4 4

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	152.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					124		MICA AMPHIBOLE SCHIST - olive brown; wet.
					125		
					126		
					127		
					128		
					129		
					130		
					131		
					132		
					133		
					134		
					135		
					136		
					137		
					138		
					139		
					140		
					141		
					142		
					143		
					144		
					145		
					146		
					147		
					148		
					149		
					150		
					151		
					152		**BORING TERMINATED AT 152.0 FEET**
					153		**No samples collected - boring logged from cuttings.**
					154		
					155		
					156		
					157		
					158		
					159		
					160		
					161		
					162		
					163		

SOIL BORING LOG

RMT INC.

BORING NO. DP-3-2

Client: MEDLEY FARMS	Drilling Start Date: 6-13-00	Drilling End Date: 6-14-00	Page 1 of 4
Site: GAFFNEY, SC	Drilling Method: AIR ROTARY		Project Number: 938.94
Geologist/Technician: W.R. SHARP	Driller (name/company): MC CALL BROS.	Drill Rig Type: INGERSOLL RAND D01	Borehole Diameter (in.): 10.0
Boring Coordinates: N: E:	Total Depth (ft.): 145.00	Measuring Point Elevation (ft.):	
Datum Description:	Datum Elevation (ft.):	Checked by:	

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					1–14		LEAN CLAY (CL) - 30-40% silt; some gravel; contains organics; dark reddish brown; medium plasticity; moist; medium stiff.
					10–14		as above - trace gravel.
					15–19		LEAN SILT (ML) - some clay and fine grained sand; reddish brown; low plasticity; dry to slightly moist. [Saprolite]
					20–24		LEAN SILT (ML) - some clay and fine grained sand; micaceous; reddish brown; low plasticity; dry to slightly moist. [Saprolite]
					25–40		LEAN SILT (ML) - some fine grained sand; little clay; micaceous; light olive gray to blonde; low plasticity; dry to slightly moist; soft to medium stiff. [Saprolite]

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Continued Next Page

SOIL BORING LOG

RMT INC.

BORING NO. DP-3-2

Client:		Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS		6-13-00	6-14-00	2 4
Site:		Drilling Method:		Project Number:
GAFFNEY, SC		AIR ROTARY		938.94
Geologist/Technician:	Driller (name/company):	Drill Rig Type:		Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01		10.0
Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):		
N: E:	145.00			
Datum Description:	Datum Elevation (ft.):	Checked by:		

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					42		LEAN SILT (ML) - some fine grained sand; little clay; micaceous; light olive gray to blonde; low plasticity; dry to slightly moist; soft to medium stiff. [Saprolite]
					43		
					44		
					45		
					46		
					47		
					48		
					49		
					50		
					51		
					52		
					53		
					54		
					55		
					56		
					57		
					58		
					59		
					60		SANDY SILT (ML) - fine grained sand; few small rock fragments; micaceous; blonde to light olive brown; low plasticity; slightly moist; medium stiff. [Saprolite]
					61		
					62		
					63		
					64		
					65		
					66		
					67		
					68		
					69		
					70		
					71		-as above; some weathered mica schist rock fragments.
					72		
					73		
					74		
					75		
					76		-as above; darker olive brown to olive gray.
					77		
					78		
					79		
					80		
					81		

SOIL_2 93894.GPJ 7/28/00

Continued Next Page

SOIL BORING LOG

BORING NO. DP-3-2

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-13-00	6-14-00	3 4

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	145.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					83		
					84		SANDY SILT (ML) - fine grained sand; few small weathered mica schist fragments; micaceous; olive brown to olive grey; low plasticity; slightly moist; medium stiff. [Saprolite]
					85		
					86		
					87		
					88		
					89		
					90		
					91		- as above; light brown to tan.
					92		
					93		
					94		
					95		SILTY SAND (SM) - fine grained; more rock fragments; micaceous; olive gray to blonde; slightly moist. [Transition Zone]
					96		
					97		
					98		
					99		
					100		
					101		
					102		
					103		
					104		
					105		SILTY SAND (SM) - fine grained; granitic gneiss rock fragments up to 2.0cm in diameter; olive gray to blonde; moist. [Transition Zone]
					106		
					107		
					108		**Top of Rock**
					109		GRANITIC GNEISS - mostly fresh rock fragments; gray feldspar, black amphibole, some brown to pink quartz; little mica; slightly moist.
					110		
					111		
					112		
					113		
					114		
					115		
					116		
					117		
					118		
					119		
					120		
					121		
					122		

Continued Next Page

SOIL BORING LOG

RMT INC.

BORING NO. DP-3-2

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-13-00	6-14-00	4 4

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	145.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					124		GRANITIC GNEISS - mostly fresh rock fragments; gray feldspar, black amphibole, some brown to pink quartz; little mica; wet.
					125		
					126		
					127		
					128		
					129		
					130		
					131		- as above; large rock fragments (1.0-2.0 cm diameter).
					132		
					133		
					134		
					135		
					136		- as above; some iron oxide staining.
					137		
					138		
					139		
					140		
					141		
					142		
					143		
					144		
					145		**BORING TERMINATED AT 145.0 FEET** **No samples collected - boring logged from cuttings.**
					146		
					147		
					148		
					149		
					150		
					151		
					152		
					153		
					154		
					155		
					156		
					157		
					158		
					159		
					160		
					161		
					162		
					163		

SOIL BORING LOG

RMT INC.

BORING NO. VE-304

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-12-00	6-12-00	1 2

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	80.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					1–9		SILTY CLAY (CL) - some fine grained sand; micaceous; brownish red; low plasticity; dry to slightly moist; medium stiff.
					10–14		SILTY CLAY (CL) - trace fine grained sand; some localized pure clay; micaceous; reddish brown; low plasticity; dry to slightly moist; medium stiff. [Saprolite]
					15–20		LEAN SILT (ML) - some fine grained sand; some clay; micaceous; light brown with slight reddish tint; low plasticity; slightly moist; medium stiff to soft. [Saprolite]
					21–29		LEAN SILT (ML) - some fine grained sand; some clay; micaceous; olive brown; low plasticity; slightly moist; medium stiff to soft. [Saprolite]
					30–40		SANDY SILT (ML) - fine grained sand; micaceous; olive brown; low plasticity; slightly moist; medium stiff. [Saprolite]

Continued Next Page

SOIL BORING LOG

RMT INC.

BORING NO. VE-304

Client:	Drilling Start Date:	Drilling End Date:	Page of
MEDLEY FARMS	6-12-00	6-12-00	2 2

Site:	Drilling Method:	Project Number:
GAFFNEY, SC	AIR ROTARY	938.94

Geologist/Technician:	Driller (name/company):	Drill Rig Type:	Borehole Diameter (in.)
W.R. SHARP	MC CALL BROS.	INGERSOLL RAND D01	10.0

Boring Coordinates:	Total Depth (ft.):	Measuring Point Elevation (ft.):
N: E:	80.00	

Datum Description:	Datum Elevation (ft.):	Checked by:

Sample Interval	% Recovery	Sample Type	Blow Counts	Not Used	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION
					42		SANDY SILT (ML) - fine grained sand; micaceous; olive brown; low plasticity; slightly moist; medium stiff. [Saprolite]
					43		
					44		
					45		
					46		
					47		
					48		
					49		
					50		- as above; contains few weathered rock fragments. [Saprolite]
					51		
					52		
					53		
					54		
					55		SANDY SILT (ML) - fine grained sand; micaceous; some weathered rock fragments which appear to be gray mica schist; blonde to light olive brown; low plasticity; slightly moist; medium stiff. [Saprolite]
					56		
					57		
					58		
					59		
					60		
					61		
					62		
					63		SANDY SILT (ML) - fine grained sand; micaceous; some weathered rock fragments which appear to be gray mica schist; blonde to light olive brown; low plasticity; slightly moist; medium stiff. [Saprolite]
					64		
					65		
					66		
					67		
					68		
					69		
					70		- as above; rock fragments are more abundant and larger. [Transition Zone]
					71		
					72		
					73		
					74		
					75		
					76		
					77		
					78		
					79		
					80		**BORING TERMINATED AT 80.0 FEET**
					81		**No samples collected - boring logged from cuttings.**

Appendix C
Summary of National Pollutant Discharge Elimination System Results

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	01	01		00	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	4.4	14	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	6.54	********** **********	7.96	SU	0	07/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0345	0.0528	MGD	********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statues may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	02	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. Box 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16)	(17-19)
SC00046469	001 2
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	01	01		00	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61)			(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53)	(54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TGP3B LAB ID:32010 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0		0	01/90	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0 DAILY MX	0=Pass 1=Fail		01/90	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	02	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
Chronic toxicity testing IWC = 41.50% effluent

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16)	(17-19)
SC0046469	001 1
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	02	01		00	02	29
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (3 Card only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	2.3	3.2	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	7.62	**********	8.01	SU	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	6.0 MINIMUM	**********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0210	0.0498	MGD	**********	**********	**********	**********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		**********	**********	**********	**********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319. *(Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	03	17
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	03	01		00	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61)			(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	3.7	7.1		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX	MG/L		01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.99	********** **********	8.18		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM	SU		01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX	MG/L		02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0202	0.0519		********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX	MG/L		02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	04	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	04	01		00	14	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0		0	04/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX	MG/L		01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.43	********** **********	8.05		0	06/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM	SU		01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0		0	04/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0		0	04/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX	MG/L		02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0279	0.0520		********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0		0	04/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX	MG/L		02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0		0	04/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	05	17
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	05	01		00	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	2.1	2	MG/L	0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.27	********** **********	8.22	SU	0	07/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0331	0.0541		********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0	0	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years*.		864	234-9363	00	06	16
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
See transmittal letter regarding flow measurement.

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	06	01		00	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION (3 Card only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<2	<2	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	7.64	**********	7.95	SU	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	6.0 MINIMUM	**********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0267	0.0383		**********	**********	**********	**********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	**********	**********	**********	**********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	**********	**********	******	**********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	**********	**********	******	**********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	07	26
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. Box 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16)	(17-19)
SC00046469	001 2
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	04	01		00	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61)			(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53)		(54-61)		NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TGP3B LAB ID:32010 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	1		1	02/90	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0 DAILY MX	0=Pass 1=Fail		01/90	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	07	26
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
Chronic toxicity testing IWC = 41.50% effluent
See transmittal letter regarding toxicity testing.

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	07	01		00	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	7.4	8	MG/L	0	02/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.87	********** **********	8.17	SU	0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0382	0.0502	MGD	********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT. SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years*.		864	234-9363	00	08	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	08	01		00	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<2	<2	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.76	********** **********	8.2	SU	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.032	0.053	MGD	********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	09	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. Box 16778
GREENVILLE, SC 29606

FACILITY LOCATION MEDLEY FARM NPL SITE
BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC00046469	001 2

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	07	01		00	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61)			(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53)	(54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TGP3B LAB ID:23031 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0		0	01/90	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0 DAILY MX	0=Pass 1=Fail		01/90	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	09	11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
Chronic toxicity testing IWC = 41.50% effluent

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	09	01		00	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<2	<2		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX	MG/L		01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.64	********** **********	8.34		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM	SU		01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX	MG/L		02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0382	0.0609		********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX	MG/L		02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	03/30	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	10	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16)	(17-19)
SC0046469	001 1
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	10	01		00	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<2	<2		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX	MG/L		01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	7.17	********** **********	7.44		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM	SU		01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX	MG/L		02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0253	0.0439		********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0.0012	0.0021		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX	MG/L		02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	0.0026	0.0088		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT. SEE 18 USC §1001 AND 33 USC § 1319. *(Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	11	14
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	11	01		00	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<2	<2		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX	MG/L		01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	6.89	********** **********	7.45		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM	SU		01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX	MG/L		02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	0.0323	0.0606		********** **********	********** **********	********** **********	********** **********	0	99/99	RF
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	MGD	********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX	MG/L		02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001		0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX	MG/L		02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	12	22
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. Box 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
SC00046469	001 2

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	10	01		00	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(3 Card only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TGP3B LAB ID:23031 7 Day Chronic Static Toxicity C. Dubia PF MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0		0	01/90	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	********** **********	0 DAILY MX	0=Pass 1=Fail		01/90	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	00	12	22
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
Chronic toxicity testing IWC = 41.50% effluent

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME MEDLEY FARM NPL SITE
ADDRESS P. O. BOX 16778
GREENVILLE, SC 29606

FACILITY MEDLEY FARM NPL SITE
LOCATION BURNT GIN ROAD

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*
SC0046469	001 1

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD						
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	00	12	01		00	12	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

21 A3 FINAL LIMITS
DMR VALID: 10/01/1997 - 08/31/2002

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		QUANTITY OR LOADING *(3 Card only) (46-53)* AVERAGE	QUANTITY OR LOADING *(54-61)* MAXIMUM	UNITS	QUALITY OR CONCENTRATION *(3 Card only) (38-45)* MINIMUM	QUALITY OR CONCENTRATION *(46-53)* AVERAGE	QUALITY OR CONCENTRATION *(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
00310 LAB ID:32010 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	2.4	3.4	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	10 MO AVG	20 DAILY MX			01/30	GR
00400 LAB ID:32010 pH Standard Units MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	6.64	********** **********	8.02	SU	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	6.0 MINIMUM	********** **********	8.5 MAXIMUM			01/07	GR
32103 LAB ID:32010 1,2-Dichloroethane Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR
34501 LAB ID:32010 1,1-Dichloroethylene Whole Water MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.039 DAILY MX			02/30	GR
50050 LAB ID:ON-SITE Flow in Conduit MLOC=1	SAMPLE MEASUREMENT	.033	.043	MGD	********** **********	********** **********	********** **********	********** **********	0	04/30	ES
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX		********** **********	********** **********	********** **********	********** **********		99/99	RF
78389 LAB ID:32010 Tetrachloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.072 DAILY MX			02/30	GR
78391 LAB ID:32010 Trichloroethene MLOC=1	SAMPLE MEASUREMENT	********** **********	********** **********	****** ******	********** **********	<0.001	<0.001	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	********** **********	********** **********	****** ******	********** **********	REPORT MO AVG	0.028 DAILY MX			02/30	GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Steve W. Webb RMT Project Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FIND AND IMPRISONMENT, SEE 18 USC §1001 AND 33 USC § 1319 *(Penalties under these statuses may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*		864	234-9363	01	01	19
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*
Estimated flows - see transmittal letter.

Appendix D
Chronic Toxicity Testing Laboratory Reports

SHEALY ENVIRONMENTAL SERVICES, INC.

Reported To: RMT-MEDELY FARMS
JEFF FRIEND
PO BOX 16778
GREENVILLE, SC 29606

7-DAY CHRONIC BIOASSAY WITH *CERIODAPHNIA DUBIA*
(SESI FORM 104 – PASS/FAIL TESTS)

CLIENT: RMT - Medley Farms

SAMPLE LOCATION: Effluent

TEST CONCENTRATION (IWC): 41.5%

Test Start Date/Time: 01/11/00 1515

Test End Date/Time: 01/18/00 1240

SAMPLE USAGE

SAMPLE ID	COLLECTION DATE/TIME	WHEN USED
184959T	01/10/00 1510	1/11, 1/12
185126T	01/12/00 1445	1/13, 1/14, 1/15
185414T	01/14/00 1125	1/16, 1/17

SUMMARY OF SURVIVAL AND REPRODUCTION

TREATMENT	MORTALITY		REPRODUCTION	
	# ADULTS	# DEAD	MEAN YOUNG / FEMALE	VARIANCE
CONTROL	20	0	31.4	10.25
41.5%	20	0	33.3	11.49
RESULTS	PASS		PASS	

STATISTICAL PROGRAM USED: TOXIS Version 2.4a

Reported By: D Sell
SC DHEC No. 32010

QC By: 222

Comments:

1/19/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia			Reproduction			
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	1/11/0	EFF1 (%)	DMR	EPAF 89	RMT0100

EPA Flowchart	Auto growth select	1 control

	Conc	Mean	SD	N	T	Sum of Ranks	Critical Sum of Ranks
Data transformation: No transformation							
X	0.00D	31.40	3.202	20			
X	41.50D	33.30	3.389	20	-1.823	484.000	348.000

NOEC	LOEC	TU	Alpha	Tail	Based on
>41.5	>41.5	<2.409	.05	One-sided	Wilcoxon w/ Bonf

Bonferroni T Test:	MSE	MSD % Reduction from Control	Critical T
	10.868	5.59107	1.684

Shapiro-Wilk Test for Normality:	Alpha	W	Cutoff W	Normal?
	.01	.914856	.919	No

Bartlett Test for Equal Variance:	Alpha	B	P(B)	Equal Var?
	.01	.05952	.80724	Yes

1/19/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia			Proportion Alive			Day 7
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	1/11/0	EFF1 (%)	DMR	EPAF 89	RMT0100

Fisher Exact	Auto growth select	1 control

Transformation		Prop. Conc	Alive	P
No transformation				
	X	0.00D	1.00	
	X	41.50D	1.00	1.000

NOEC	LOEC	TU	Alpha	Tail	Based on
>41.5	>41.5	<2.409	.05	One-sided	Fisher Exact

1/19/00- 4:43 pm TOXIS ANALYSIS SUMMARY

Water Flea

Lab	Species	Test Date	Test Material	Permit	Protocol	Test Number
SESI	CD	1/11/0	EFF1 (%)	DMR	EPAF 89	RMT0100

Statistics Parameters

PROPORTION

End Point:	PA Proportion Alive		
Analysis:	Fisher Exact	Auto growth select	1 control
Transform:	No transformation		
Tail:	One-tailed, decreasing		
Constant:	-.01	Variance:	.01
Root:	0.00	Alpha Normality:	.01
		NOEC:	.05

EC/LC Method: N (P,S,G,L,N) Superdunnet: 4000

GROWTH

End Point:	GR Reproduction		
Analysis:	EPA Flowchart	Auto growth select	1 control
Transform:	No transformation		
Tail:	One-tailed, decreasing		
Constant:	-.01	Variance:	.01
Root:	0.00	Alpha Normality:	.01
		NOEC:	.05

Calculate IC? N (Y,N) IC resamples: 120

Errors/Warnings

Type	Number	
PROP	0	Analysis completed with no errors
GROW	0	Analysis completed with no errors

USE BALL POINT PEN PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

CHAIN OF CUSTODY #

Client Name: Medley Farms - RMT

Reporting Address:

Attention:

Telephone No: P.O. No.:

NPDES #:

County:

Receiving Stream:

Outfall No.:

PRESERVATION (CODE)
CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = HCl

LAB USE ONLY
Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other:

Sample ID (Location)	Yr. 00 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
									E					F									F					
	Start					X	5		✓					(3)									✓				pH 7.90	
	Finish 1/10	1315												✓													Temp. 18°C	1044 FIT
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time
Print Name: Mark McDade			
Signature: Mark McDade	1/10/00		
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time

Hazards Associated with Sample

Custody Seal Intact (Circle)
YES NO NONE

Receipt TRC _____ mg/l

Receipt pH _____ su

Receipt Temp. _____ °C

Received on Ice (Circle)
YES NO ICE PACK

Sample Receipt Checklist

Client: Medley Farms Cooler received by/date: KMWHO.00

Sample numbers: 1849597 thru 1849597

Cooler temperature upon receipt 8-1 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☑ DirectX ☐ Other

Yes ☑	No ☐	NA ☐	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples and relinquished?
Yes ☑	No ☐	NA ☐	3. Did the laboratory sign the chain of custody in the appropriate place?
Yes ☐	No ☑	NA ☐	4. Was the client name/address listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on C of C?
Yes ☐	No ☑	NA ☐	8. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on C of C?
Yes ☐	No ☑	NA ☐	16. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	17. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)
Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving.
Sample(s)_____ were received incorrectly preserved and were unable to be analyzed
Sample(s)_____ were received with bubble >6 mm in diameter

Comments on resolutions to any discrepancies (if applicable, include date/time/client/agency contacted):

USE BALL POINT PEN (PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY #

Client Name Medley Farms - RMT

Reporting Address

Attention

Telephone No P.O. No.

NPDES #

County

Receiving Stream

Outfall No

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED 5926

PRESERVATION (CODE)
CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

LAB USE ONLY
Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other ____
DA 12026

Sample ID (Location)	Yr. 05 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
	Start																						E					
	Finish 1/12	HIS				X	1	✓															✓				pH 7.47 Temp 19.0°C	185/265
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: Mark McDade					Receipt TRC ____ mg/l
Signature: Mark McDade	1/12/05 1055				Receipt pH ____ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp 3.3 °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time 1055		Received on Ice (Circle)

Sample Receipt Checklist

Client: Medky Farms-RMI Cooler received by/date: KA 11/12/00

Sample numbers: 185126 thru _____

Cooler temperature upon receipt 3.3 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ DirectX ☐ Other _____

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples and relinquished?
Yes ☑	No ☐	NA ☐	3. Did the laboratory sign the chain of custody in the appropriate place?
Yes ☑	No ☐	NA ☐	4. Was the client name/address listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on C of C?
Yes ☑	No ☐	NA ☐	8. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	16. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	17. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)
Sample(s)_____were received incorrectly preserved and were adjusted accordingly in sample receiving.
Sample(s)_____were received incorrectly preserved and were unable to be analyzed
Sample(s)_____were received with bubble >6 mm in diameter

Comments on resolutions to any discrepancies (if applicable, include date/time/client/agency contacted):

_____

USE BALL POINT PEN — PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ___ of ___

CHAIN OF CUSTODY #

Client Name: Hilton Head RMT

Reporting Address:

Attention:

Telephone No: P.O. No.:

NPDES #: -

County:

Receiving Stream:

Outfall No.:

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

5926

Sample ID (Location)	Yr. 06 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Cadium - Search Lists	Toxicity - Specify				←PRESERVATION (CODE)	LAB USE ONLY
	Start																										CODE: A = None, B = HNO3, C = H2SO4, D = NaOH, E = ICE, F = 4/3T	Program Area (Circle): DW, CWA/NPDES, RCRA, SP/SOL, SP/LIQ, Other: DA1300
	Finish 1/14	1125				X	1	✓															✓				REMARKS: pH 7.13, Temp 11-C	SESI LAB I.D.: 1854/1-4
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: [illegible]					Receipt TRC ___ mg/l
Signature: [illegible]					Receipt pH ___ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp. 1.5 °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time 11/17/92		Received on Ice (Circle) YES NO ICE PACK

Sample Receipt Checklist

Client: Medley Farms RMT Cooler received by/date: KA 1/15/00

Sample numbers: 18544T thru _____

Cooler temperature upon receipt 7.9 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☑ DirectX ☐ Other

Yes ☐	No ☑	NA ☐	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples and relinquished?
Yes ☑	No ☐	NA ☐	3. Did the laboratory sign the chain of custody in the appropriate place?
Yes ☑	No ☐	NA ☐	4. Was the client name/address listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on C of C?
Yes ☐	No ☑	NA ☐	8. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	16. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	17. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) _____ were received incorrectly preserved and were unable to be analyzed

Sample(s) _____ were received with bubble >6 mm in diameter

Comments on resolutions to any discrepancies (if applicable, include date/time/client/agency contacted):

SHEALY ENVIRONMENTAL SERVICES, INC.

Reported To: RMT, INC.
JEFF FRIEND
PO BOX 16778
GREENVILLE, SC 29606

7-DAY CHRONIC BIOASSAY WITH *CERIODAPHNIA DUBIA*
(SESI FORM 104 – PASS/FAIL TESTS)

CLIENT: RMT - Medley Farms

SAMPLE LOCATION: Effluent

TEST CONCENTRATION (IWC): 41.5%

Test Start Date/Time: 04/11/00 1400

Test End Date/Time: 04/18/00 1240

SAMPLE USAGE

SAMPLE ID	COLLECTION DATE/TIME	WHEN USED
BD11005-001	04/10/00 1445	4/11, 4/12
BD13004-001	04/12/00 1315	4/13, 4/14, 4/15
BD14039-001	04/14/00 1350	4/16, 4/17

SUMMARY OF SURVIVAL AND REPRODUCTION

TREATMENT	MORTALITY		REPRODUCTION	
	# ADULTS	# DEAD	MEAN YOUNG/ FEMALE	VARIANCE
CONTROL	20	1	35.0	12.8
41.5%	20	0	32.0	19.7
RESULTS	PASS		FAIL	

STATISTICAL PROGRAM USED: TOXIS Version 2.4a

Reported By: B Sa
SC DHEC No. 32010

QC By: JJ

Comments:

4/21/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia			Reproduction			
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	4/11/0	EFF1 (%)	DMR	EPAF 89	MEDLEY411

EPA Flowchart	Auto growth select	1 control

	Conc	Mean	SD	N	T	Sum of Ranks	Critical Sum of Ranks
Data transformation:		No transformation					
X	0.00D	34.95	3.576	20			
X	41.50D	31.95	4.442	20	2.353	334.500	348.000

NOEC	LOEC	TU	Alpha	Tail	Based on
<41.5	41.5	>2.409	.05	One-sided	Wilcoxon w/ Bonf

Bonferroni T Test:	MSE	MSD % Reduction from Control	Critical T
	16.260	6.14415	1.684

Shapiro-Wilk Test for Normality:	Alpha	W	Cutoff W	Normal?
	.01	.913208	.919	No

Bartlett Test for Equal Variance:	Alpha	B	P(B)	Equal Var?
	.01	.86474	.35241	Yes

crit T > calc T

4/21/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia	Proportion Alive	Day 7

Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	4/11/0	EFF1 (%)	DMR	EPAF 89	MEDLEY411

Fisher Exact	Auto growth select	1 control

Transformation		Prop. Conc	Alive	P
No transformation				
	X	0.00D	.95	
	X	41.50D	1.00	1.000

NOEC	LOEC	TU	Alpha	Tail	Based on
>41.5	>41.5	<2.409	.05	One-sided	Fisher Exact

4/21/00-12:15 pm TOXIS ANALYSIS SUMMARY

Water Flea

Lab	Species	Test Date	Test Material	Permit	Protocol	Test Number
SESI	CD	4/11/0	EFF1 (%)	DMR	EPAF 89	MEDLEY411

Statistics Parameters

PROPORTION

End Point:	PA Proportion Alive		
Analysis:	Fisher Exact	Auto growth select	1 control
Transform:	No transformation		
Tail:	One-tailed, decreasing		
Constant:	-.01	Variance:	.01
Root:	0.00	Alpha Normality:	.01
		NOEC:	.05

EC/LC Method: N (P,S,G,L,N) Superdunnet: 4000

GROWTH

End Point:	GR Reproduction		
Analysis:	EPA Flowchart	Auto growth select	1 control
Transform:	No transformation		
Tail:	One-tailed, decreasing		
Constant:	-.01	Variance:	.01
Root:	0.00	Alpha Normality:	.01
		NOEC:	.05

Calculate IC? N (Y,N) IC resamples: 120

Errors/Warnings

Type	Number	
PROP	0	Analysis completed with no errors
GROW	0	Analysis completed with no errors

BALL POINT PEN ONL[illegible] [illegible]SS HARD

SHEALY ENVIRONMENT[illegible] SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

IAIN OF CUSTODY #

NPDES # _____

County _____

Receiving Stream _____

Outfall No. _____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

nt Name _____

orting Address _____

ention _____

ephone No. _____ P.O. No. _____

←PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = [illegible]

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: _____

Sample ID (Location)	Yr. ____ DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
	Start																											
	Finish					X	1	✓	✓					✓									✓				pH 7.87 Temp 20°C	[illegible]
	Start																											
	Finish																											BD[illegible]
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: [illegible]					Receipt TRC _____ mg/l
Signature: [illegible]					Receipt pH _____ SU
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp. _____ °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		Received on Ice (Circle)

E BALL POINT PEN ONLY, PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

HAIN OF CUSTODY #

ient Name

sporting Address

tention

lephone No P.O. No.

NPDES #

County

Receiving Stream

Outfall No.

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

←PRESERVATION (CODE)
CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

LAB USE ONLY
Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other_____

Sample ID (Location)	DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC-TOx - Specify	BTEX	VOC - Specify Method required	Pesticides-PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify Type	Toxicity - Specify				REMARKS	SESI LAB I.D
	Start																											
	Finish 4/12	1315				X	1	✓															✓				pH 8.02 Temp 20°	
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
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	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name:					Receipt TRC _____ mg/l
Signature:					Receipt pH _____ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp _____ °C
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		

Sample Receipt Checklist

Client: RMT-Medley farms Cooler received by/date: PPM 4.12.00

Sample numbers: RD13004 thru -

Cooler temperature upon receipt: 31 °C	
Method of coolant:	☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Means of receipt:	☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ DirectX ☐ Other

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples and relinquished?
Yes ☑	No ☐	NA ☐	3. Did the laboratory sign the chain of custody in the appropriate place?
Yes ☑	No ☐	NA ☐	4. Was the client name/address listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on C of C?
Yes ☑	No ☐	NA ☐	8. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	16. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	17. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine? (< 0.2 mg/L)
Yes ☐	No ☐	NA ☑	20. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation	(Must be completed for any sample(s) incorrectly preserved.)
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.	
Sample(s) _____ were received incorrectly preserved and were unable to be analyzed	
Sample(s) _____ were received with bubble >6 mm in diameter	

Comments on resolutions to any discrepancies (if applicable, include date/time/client/agency contacted):

BALL ONLY PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ___

NPDES # ___

County ___

Receiving Stream ___

Outfall No. ___

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

IAIN OF STODY #

nt Name: RHT Mills Farms

orting Address:

ntion: Jeff Friend

ephone No. ___ P.O. No. ___

Sample ID (Location)	Yr. 00 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH (Preserving)	BOD	Metals - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify	Pesticides/PCB - Specify	Herbicides	Total Phenols	Oil & Grease	BNAs	Cyanide - Specify	Phosphate	Sulfide	Fecal Coliform - Specify	← PRESERVATION (CODE)	LAB USE ONLY
																								CODE A = None B = HNO3 C = H2SO4 D = NaOH E = ICE F = ___	Program Area (Circle) DW CWA/NPDES RCRA SP/SOL SP/LIQ Other ___
																								REMARKS	SESI FAB I.D.
Jeff	Start																								
	Finish 4/14	1330				X	1	0 ✓																pH 7.75 Temp 12°C	5111
	Start																								
	Finish																								
	Start																								
	Finish																								
	Start																								
	Finish																								
	Start																								
	Finish																								
	Start																								
	Finish																								
	Start																								
	Finish																								

	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle)
AMPLER rint Name: Mark Mills gnature: Mark Mills	4/14 1330				YES NO NONE
elinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt TRC ___ mg/L Receipt pH ___ SU Receipt Temp ___ °C
elinquished by (Sig.)	Date/Time	Received for Laboratory by (Sig.)	Date/Time		

Sample Receipt Checklist

Client: RMT - Medley Farms Cooler received by/date: PBM - 4/4/00

Sample numbers: 0014035-001 thru _____

Cooler temperature upon receipt 2.4 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ DirectX ☐ Other

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples and relinquished?
Yes ☑	No ☐	NA ☐	3. Did the laboratory sign the chain of custody in the appropriate place?
Yes ☑	No ☐	NA ☐	4. Was the client name/address listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on C of C?
Yes ☑	No ☐	NA ☐	8. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	16. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	17. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine? (< 0.2 mg/L)
Yes ☐	No ☐	NA ☑	20. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)

Sample(s)_____were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s)_____were received incorrectly preserved and were unable to be analyzed

Sample(s)_____were received with bubble >6 mm in diameter

Comments on resolutions to any discrepancies (if applicable, include date/time/client/agency contacted):

_____

SHEALY ENVIRONMENTAL SERVICES, INC.

Reported To: RMT-MEDLEY FARMS
JEFF FRIEND
PO BOX 16778
GREENVILLE, SC 29606

7-DAY CHRONIC BIOASSAY WITH *CERIODAPHNIA DUBIA*
(SESI FORM 104 – PASS/FAIL TESTS)

CLIENT: RMT - Medley Farms

SAMPLE LOCATION: Effluent

TEST CONCENTRATION (IWC): 41.5%

Test Start Date/Time: 05/16/00 1150

Test End Date/Time: 05/23/00 0845

SAMPLE USAGE

SAMPLE ID	COLLECTION DATE/TIME	WHEN USED
BE16003-001	05/15/00 1335	05/16, 05/17
BE17042	05/17/00 1330	05/18, 05/19, 05/20
BE19029-001	05/19/00 1340	05/21, 05/22

SUMMARY OF SURVIVAL AND REPRODUCTION

TREATMENT	MORTALITY		REPRODUCTION	
	# ADULTS	# DEAD	MEAN YOUNG / FEMALE	VARIANCE
CONTROL	20	0	24.6	21.9
41.5%	20	1	24.1	29.2
RESULTS	PASS		PASS	

STATISTICAL PROGRAM USED: TOXIS Version 2.4a

Reported By: B S.M
SC DHEC No. 32010

QC By: MDH

Comments:

6/05/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia			Reproduction			
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	5/16/0	EFF1 (%)	DMR	EPAF 89	RMTMED

EPA Flowchart	Auto growth select	1 control

	Conc	Mean	SD	N	T
Data transformation: No transformation					
X	0.00D	24.63	4.681	19	
X	41.50D	24.11	5.405	19	.321

NOEC	LOEC	TU	Alpha	Tail	Based on
>41.5	>41.5	<2.409	.05	One-sided	Wilcoxon w/ Bonf

Bonferroni T Test:	MSE	MSD % Reduction from Control	Critical T
	25.561	11.2411	1.688

Shapiro-Wilk Test for Normality:	Alpha	W	Cutoff W	Normal?
	.01	.9686	.916	Yes

Bartlett Test for Equal Variance:	Alpha	B	P(B)	Equal Var?
	.01	.36061	.54816	Yes

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Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

HAIN OF CUSTODY #

ient Name Jeff Media Farms

eporting Address

tention Jeff Friend

elephone No. _____ P.O. No. _____

NPDES # _____
County _____
Receiving Stream _____
Outfall No. _____

Sample ID (Location)	Yr. 99 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify Type	Toxicity - Specify					REMARKS	SESI LAB I.D.
								E						F									E						
	Start							O						3														pH 8.22	Bt 16002
	Finish 5/15	1335					X5	✓	✓					✓									✓					Temp 21°C	Bt 16003
	Start																												
	Finish																												
	Start																												
	Finish																												
	Start																												
	Finish																												
	Start																												
	Finish																												
	Start																												
	Finish																												
	Start																												
	Finish																												
	Start																												
	Finish																												

← PRESERVATION (CODE)
CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = HCl

LAB USE ONLY
Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: _____

SAMPLER Mark McDade Print Name: Signature: Mark McDade	Date/Time	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time

Hazards Associated with Sample

Custody Seal Intact (Circle)
YES NO NONE

Receipt TRC _____ mg/l
Receipt pH _____ su
Receipt Temp 6 °C

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Cayce, South Carolina 29033
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Page ____ of ____

CHAIN OF CUSTODY #

Client Name RMI - Medley Farms

Reporting Address

Attention Jeff Francis

Telephone No. _____ P.O. No. _____

NPDES # _____

County _____

Receiving Stream _____

Outfall No. _____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Sample ID (Location)	Yr 96 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	Conductivity (pH)	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
									E					F									E					
	Start																											
	Finish 5/17	1330				X	8 1	0 ✓	✓					✓									✓				pH 7.82 Temp 22°C	BE11042
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

←PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = HCl

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: _____

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: Mark McDade					Receipt TRC _____ mg/l
Signature: Mark McDade	5/17/96 1330				Receipt pH _____ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp. _____ °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		Received on Ice (Circle)

Sample Receipt Checklist

Client: RMT- Medley Cooler received by/date: LMM/5-17-00 Lot number: BL-17047

Means of receipt:	☑ SESI	☐ Client	☐ UPS	☐ FedEx	☐ DirectX	☐ Other

Cooler temperature upon receipt 1-2 °C
Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	If cooler was shipped, was temperature 0-6°C.
Yes ☑	No ☐	If cooler was hand delivered, was sample received on ice.

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples?
Yes ☑	No ☐	NA ☐	3. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	4. Was the client name listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on either the C of C or quote?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	15. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	16. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine? (< 0.2 mg/L)
Yes ☐	No ☐	NA ☑	19. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)
Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving.
Sample(s)_____ were received incorrectly preserved and were unable to be analyzed
Sample(s)_____ were received with bubble >6 mm in diameter

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐
Did client respond: Yes ☐ No ☐
Date of response: _____
Shealy employee: _____
Client instructions / Comments: _____

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SHEALY ENVIRONMEN[illegible] SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

HAIN OF CUSTODY #

lient Name: [illegible] Medley Farms

eporting Address:

ttention: [illegible] Farms

elephone No. ____ P.O. No. ____

NPDES # ____
County ____
Receiving Stream ____
Outfall No. ____

Sample ID (Location)	Yr. 00 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH/Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify Type	Toxicity - Specify				←PRESERVATION (CODE)	LAB USE ONLY
	Start																										CODE: A = None B = HNO3 C = H2SO4 D = NaOH E = ICE F = ____	Program Area (Circle) DW CWA/NPDES RCRA SP/SOL SP/LIQ Other: ____
	Finish 5/19	1340				X	1	✓															✓				REMARKS	SESI LAB I.D.
																											pH temp chronic	[illegible]
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: [illegible] McDade					Receipt TRC ____ mg/l
Signature: [illegible] McDade	[illegible]				Receipt pH ____ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp. [illegible] °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.) [illegible]	Date/Time [illegible]		Received on Ice (Circle)

Sample Receipt Checklist

Client: RMT Cooler received by/date: AB 5-17-00 Lot number: BE19029

Means of receipt:	☑ SESI	☐ Client	☐ UPS	☐ FedEx	☐ DirectX	☐ Other

Cooler temperature upon receipt 2.9 °C
Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	If cooler was shipped, was temperature 0-6°C.
Yes ☑	No ☐	If cooler was hand delivered, was sample received on ice.

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples?
Yes ☑	No ☐	NA ☐	3. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	4. Was the client name listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on either the C of C or quote?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	15. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	16. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine? (< 0.2 mg/L)
Yes ☐	No ☐	NA ☑	19. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) _____ were received incorrectly preserved and were unable to be analyzed

Sample(s) _____ were received with bubble >6 mm in diameter

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐
Did client respond: Yes ☐ No ☐
Date of response: _____
Shealy employee: _____
Client instructions / Comments: _____

SHEALY

SHEALY ENVIRONMENTAL SERVICES, INC.

Reported To: RMT, INC.
JEFF FRIEND
PO BOX 16778
GREENVILLE, SC 29606

7-DAY CHRONIC BIOASSAY WITH *CERIODAPHNIA DUBIA*
(SESI FORM 104 – PASS/FAIL TESTS)

CLIENT: RMT - Medley Farms

SAMPLE LOCATION: Effluent

TEST CONCENTRATION (IWC): 41.5%

Test Start Date/Time: 07/25/00 1605

Test End Date/Time: 07/31/00 1125

SAMPLE USAGE

SAMPLE ID	COLLECTION DATE/TIME	WHEN USED
BG25003	07/24/00 1345	07/25, 07/26, 07/27
BG26057	07/26/00 1425	07/28, 07/29
BG29005	07/28/00 1310	07/30

SUMMARY OF SURVIVAL AND REPRODUCTION

TREATMENT	MORTALITY		REPRODUCTION	
	#ADULTS	#DEAD	MEAN YOUNG / FEMALE	VARIANCE
CONTROL	20	0	17.9	9.5
41.5%	20	0	22.3	7.0
RESULTS	PASS		PASS	

STATISTICAL PROGRAM USED: TOXIS Version 2.4a

Reported By: _____
SC DHEC No. 32010

QC By: _____

Comments: Test performed by SCDHEC Lab No. 23031.

Title: SHEALY - MED F
File: 125032A Transform: NO TRANSFORMAT

Shapiro - Wilk's Test for Normality

D = 170.0000
W = 0.9344

Critical W = 0.8680 (alpha = 0.01 , N = 20)
W = 0.9050 (alpha = 0.05 , N = 20)

Data PASS normality test (alpha = 0.01). Continue analysis.

Title: SHEALY - MED F
File: 125032B Transform: NO TRANSFORMATION

Shapiro - Wilk's Test for Normality

D = 313.5500
W = 0.9520

Critical W = 0.9190 (alpha = 0.01 , N = 40)
W = 0.9400 (alpha = 0.05 , N = 40)

Data PASS normality test (alpha = 0.01). Continue analysis.

Title: SHEALY - MED F
File: 125032B Transform: NO TRANSFORMATION

F-Test for Equality of Two Variances

GROUP	IDENTIFICATION	VARIANCE	F
1	0	9.4632	
2	EFF	7.0395	1.3443

(p-value = 0.5252)

Critical F = 3.4318 (P=0.01, 19, 19)
2.5265 (P=0.05, 19, 19)

Since F <= Critical F, FAIL TO REJECT Ho: Equal Variances (alpha = 0.01).

Fisher's Exact Test

IDENTIFICATION	NUMBER OF ALIVE	NUMBER OF DEAD	NUMBER OF TOTAL ANIMALS
CONTROL	20	0	20
125032	20	0	20
TOTAL	40	0	40

Critical Fisher's value (20,20,20) (alpha=0.05) is 15.0. b value is 20.
Since b is greater than 15.0 there is no significant difference between CONTROL and TREATMENT at the 0.05 level.

Summary of Fisher's Exact Tests

GROUP	IDENTIFICATION	NUMBER EXPOSED	NUMBER DEAD	SIG 0.05
	CONTROL	20	0	
1	125032	20	0	

Title: SHEALY - MED F
File: 125032B Transform: NO TRANSFORMAT

ANOVA Table

SOURCE	DF	SS	MS	F
Between	1	189.2250	189.2250	22.9327
Within (Error)	38	313.5500	8.2513	
Total	39	502.7750		

(p-value = 0.0000)

Critical F = 7.3525 (alpha = 0.01, df = 1,38)
= 4.0982 (alpha = 0.05, df = 1,38)

Since F > Critical F REJECT Ho: All equal (alpha = 0.05)

Title: SHEALY - MED F
File: 125032B Transform: NO TRANSFORMATION

2 Sample t-Test - TABLE 1 OF 2 Ho: Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	t STAT	SIG 0.05
1	0	17.9000	17.9000		
2	EFF	22.2500	22.2500	-4.7888	

Equal Var: t critical value = 1.6860 (1 Tailed, alpha = 0.05, df = 38)
(p-value = 1.0000)

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG 0.05
1	0	17.9000	17.9000		
2	EFF	22.2500	22.2500	-4.7888	

Unequal Var: t critical value = 1.6871 (1 Tailed, alpha = 0.05, df = 37)
(p-value = 1.0000)

Title: SHEALY - MED F
File: 125032B Transform: NO TRANSFORMATION

2 Sample t-Test - TABLE 2 OF 2 Ho: Control<Treatment

Equal Variances:

GROUP	IDENTIFICATION	NUM OF REPS	MIN SIG DIFF (IN ORIG. UNITS)	% OF CONTROL	DIFFERENCE FROM CONTROL
1	0	20			
2	EFF	20	1.5315	8.6	-4.3500

Unequal Variances:

GROUP	IDENTIFICATION	NUM OF REPS	MIN SIG DIFF (IN ORIG. UNITS)	% OF CONTROL	DIFFERENCE FROM CONTROL
1	0	20			
2	EFF	20	1.5325	8.6	-4.3500

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Cayce, South Carolina 29033
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Page ___ of ___

NPDES # ___
County ___
Receiving Stream ___
Outfall No. ___

CHAIN OF CUSTODY

Client Name RMT - Medley Farms
Reporting Address RMT

Attention RMT Jeff Friend
Telephone No. ___ P.O. No. ___

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

PRESERVATION (CODE)
CODE: A = None, B = HNO3, C = H2SO4, D = NaOH, E = ICE, F = ___

LAB USE ONLY
Program Area (Circle): DW, CWA/NPDES, RCRA, SP/SQ, SP/LIQ, Other ___

Sample ID (Location)	Yr. 0 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH Conductivity	E		METALS - Specify	TOC/TOX - Specify	BTEX	E VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	Bulks	Solids - Specify	Cyanide	Cations - Specify	E Toxicity - Specify				REMARKS	SESI LAB I.D.
Eff	Start / Finish 7/24	1345				X	5	0 ✓	✓					(3) ✓									✓				pH 8.14 Temp 24.0°C	3425002 3425003 (T)
	Start / Finish																										Toxicity Sent to ASI	
	Start / Finish																											
	Start / Finish																											
	Start / Finish																											
	Start / Finish																											
	Start / Finish																											
	Start / Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: Mark McDade					Receipt TRC ___ mg/l
Signature: Mark McDade					Receipt pH ___ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt ___ °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		

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Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

CHAIN OF CUSTODY #

Client Name: [illegible]

Reporting Address: [illegible]

Attention: [illegible]

Telephone No ____ P.O. No. ____

NPDES # ____

County ____

Receiving Stream ____

Outfall No. ____

Sample ID (Location)	Yr DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
	Start																											
	Finish	[illegible]				Y	1	C V															✓				pH 5.18 Temp [illegible]	[illegible]
	Start																											
	Finish																											
	Start																											
	Finish																											
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	Finish																											
	Start																											
	Finish																											

←PRESERVATION (CODE)

CODE: A = None
B = HNO_3
C = H_2SO_4
D = NaOH
E = ICE
F = ____

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other ____

SAMPLER	Date/Time	Received by (Sig.)	Date/Time
Print Name: [illegible]			
Signature: [illegible]	7/21/00 1200		
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.) [illegible]	Date/Time [illegible]

Hazards Associated with Sample

Custody Seal Intact (Circle)
YES NO NONE

Receipt TRC ____ mg/l

Receipt pH ____ su

Receipt Temp. ____ °C

Received on Ice (Circle)
YES NO ICE PACK

USE BALL POINT PEN ONLY. PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY #

Client Name

Reporting Address

Attention

Telephone No P.O. No.

NPDES #

County

Receiving Stream

Outfall No.

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Sample ID (Location)	Yr. DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
									E					E									E					
	Start																										pH 8.17	6679004 ad
	Finish	1100				X	5	2 ✓	1					3 ✓									1				Temp 25°	6679005 ad
	Start																										Toxicity Submitted	
	Finish																										See Grady	
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

←PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: ____

SAMPLER	Date/Time	Received by (Sig.)	Date/Time
Print Name:	7/29/00 1100	Fed Ex	7/29/00 1100
Signature:			
Relinquished by (Sig.)	7/29 1700	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	7/ Date/Time

Hazards Associated with Sample

Custody Seal Intact (Circle)
YES NO NONE

Receipt TRC ____ mg/l

Receipt pH ____ SU

Receipt T ____ °C

SHEALY ENVIRONMENTAL SERVICES, INC.

Reported To: **RMT - MEDLEY FARMS**
JEFF FRIEND
PO BOX 16778
GREENVILLE, SC 29606

7-DAY CHRONIC BIOASSAY WITH *CERIODAPHNIA DUBIA*
(SESI FORM 104 – PASS/FAIL TESTS)

CLIENT: RMT - Medley Farms

SAMPLE LOCATION: Effluent

TEST CONCENTRATION (IWC): 41.5%

Test Start Date/Time: 11/14/00 1430

Test End Date/Time: 11/20/00 1035

SAMPLE USAGE

SAMPLE ID	COLLECTION DATE/TIME
BK14005-001	11/13/00 1430
BK15024	11/15/00 1430
BK19002-001	11/17/00 1450

SUMMARY OF SURVIVAL AND REPRODUCTION

TREATMENT	MORTALITY		REPRODUCTION – MEAN YOUNG / FEMALE	VARIANCE
	# ADULTS	# DEAD		
CONTROL	20	0	25.5	60.9
41.5%	20	0	24.7	33.6
RESULTS	PASS		PASS	

STATISTICAL PROGRAM USED: TOXIS Version 2.4a

Reported By: [signature]
SC DHEC LAB NO. 32566

QC By: [signature]

Comments:

11/21/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia			Reproduction			
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	11/14/0	EFF1 (%)	DMR	EPAF 89	MEDLEY1114

EPA Flowchart	Auto growth select	1 control

	Conc	Mean	SD	N	T
Data transformation:	No transformation				
X	0.00D	25.45	7.803	20	
X	41.50D	24.65	5.797	20	.368

NOEC	LOEC	TU	Alpha	Tail	Based on
>41.5	>41.5	<2.409	.05	One-sided	Wilcoxon w/ Bonf

Bonferroni T Test:	MSE	MSD % Reduction from Control	Critical T
	47.25	14.3831	1.684

Shapiro-Wilk Test for Normality:	Alpha	W	Cutoff W	Normal?
	.01	.944039	.919	Yes

Bartlett Test for Equal Variance:	Alpha	B	P(B)	Equal Var?
	.01	1.6113	.20429	Yes

11/21/00 TOXIS ANALYSIS SUMMARY

Ceriodaphnia	Proportion Alive	Day 7

Lab	Species	Date	Test Material	Permit	Protocol	Test Number
SESI	CD	11/14/0	EFF1 (%)	DMR	EPAF 89	MEDLEY1114

Fisher Exact Auto growth select 1 control

Transformation		Prop. Conc	Alive	P
No transformation				
	X	0.00D	1.00	
	X	41.50D	1.00	1.000

NOEC	LOEC	TU	Alpha	Tail	Based on
>41.5	>41.5	<2.409	.05	One-sided	Fisher Exact

11/21/00- 1:40 pm TOXIS ANALYSIS SUMMARY

Water Flea

Lab	Species	Test Date	Test Material	Permit	Protocol	Test Number
SESI	CD	11/14/0	EFF1 (%)	DMR	EPAF 89	MEDLEY1114

Statistics Parameters

PROPORTION

End Point: PA Proportion Alive
Analysis: Fisher Exact Auto growth select 1 control
Transform: No transformation
Tail: One-tailed, decreasing
Constant: -.01 Variance: .01
Root: 0.00 Alpha Normality: .01
NOEC: .05

EC/LC Method: N (P,S,G,L,N) Superdunnet: 4000

GROWTH

End Point: GR Reproduction
Analysis: EPA Flowchart Auto growth select 1 control
Transform: No transformation
Tail: One-tailed, decreasing
Constant: -.01 Variance: .01
Root: 0.00 Alpha Normality: .01
NOEC: .05

Calculate IC? N (Y,N) IC resamples: 120

Errors/Warnings

Type	Number	
PROP	0	Analysis completed with no errors
GROW	0	Analysis completed with no errors

CLIENT: RMT
SAMPLE ID: MEDLEY FARMS
TEST DATE: 11/14/00 - 11/20/00

CALCULATION OF THE MEAN, SD, AND VAR

	CONTROL	EFF
	33	29
	18	25
	19	11
	16	32
	17	18
	33	17
	15	29
	16	31
	34	26
	17	26
	17	30
	28	29
	40	22
	28	29
	33	17
	28	20
	30	32
	27	23
	27	24
	33	23
MEAN/FEMALE	25.45	24.65
STD DEV	7.80	5.80
VARIANCE	60.892	33.608

USE BALL POINT PEN ONLY. PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY #

NPDES # ____

County ____

Receiving Stream ____

Outfall No. ____

Client Name ____

Reporting Address ____

Attention ____

Telephone No ____ P.O. No. ____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

←PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = ____

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: ____

Sample ID (Location)	DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
									E					F									E					
	Start																											
	Finish					X	5	✓	✓					✓									✓				pH 7.1 Temp 14°C	
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
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	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: ____ Signature: ____	11/13/96 1700	Dr-Co Ex	11/13/96 1700		Receipt TRC ____ mg/l
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt pH ____ su
	11/14/96 [illegible]				Receipt T ____ °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		

USE BALL POINT PEN PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ____ of ____

CHAIN OF CUSTODY #

Client Name: [illegible] RMT

Reporting Address: RMT - Greenville

Attention: [illegible]

Telephone No. _____ P.O. No. _____

NPDES # _____

County _____

Receiving Stream _____

Outfall No. _____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Sample ID (Location)	Yr. DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				←PRESERVATION (CODE)	LAB USE ONLY
								E						F									E					
	Start																										CODE: A = None B = HNO3 C = H2SO4 D = NaOH E = ICE F = _____	Program Area (Circle) DW CWA/NPDES RCRA SP/SOL SP/LIQ Other: _____
	Finish																										REMARKS	SESI LAB I.D.
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
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	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: [illegible]					Receipt TRC _____ mg/l
Signature: [illegible]					Receipt pH _____ su
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Receipt Temp. _____ °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		Received on Ice (Circle)

Sample Receipt Checklist

Client: RMT-Midley Cooler received by/date: VMm/11-15 Lot number: BK15

Means of receipt:	☑ SESI	☐ Client	☐ UPS	☐ FedEx	☐ DirectX	☐ Other

Cooler temperature upon receipt 2.7 °C

Method: ☐ Temperature Blank ☑ Against Bottles

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	If cooler was shipped, was temperature 0-6°C.
Yes ☑	No ☐	If cooler was hand delivered, was sample received on ice.

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples?
Yes ☑	No ☐	NA ☐	3. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	4. Was the client name listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on either the C of C or quote?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on C of C?
Yes ☐	No ☑	NA ☐	15. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	16. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB samples free of residual chlorine? (< 0.2 mg/L)
Yes ☐	No ☐	NA ☑	19. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)

Sample(s)_____were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s)_____were received incorrectly preserved and were unable to be analyzed

Sample(s)_____were received with bubble >6 mm in diamet

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐

Did client respond: Yes ☐ No ☐

Date of response: _____

Shealy employee: _____

Client instructions / Comments: _____

PRINT PEN OR PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Page ___ of ___

CHAIN OF CUSTODY #

Client Name: RMT

Reporting Address:

Attention:

Telephone No.: P.O. No.:

NPDES #:

County:

Receiving Stream:

Outfall No.:

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Sample ID (Location)	Yr. 96 DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify				REMARKS	SESI LAB I.D.
								E						F									E					
	Start																											
	Finish 11:17	1450				X	5	1	1					1									1				pH 5.79 Temp 12°C	BK19000 BK19003
	Start																											
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											
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	Start																											
	Finish																											
	Start																											
	Finish																											

←PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: ____

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name:					Receipt TRC _____ mg/l
Signature:	11/7/96 1200	FedEx	11/7/96 1200		Receipt pH _____ su
Relinquished by (Sig.)	Date/Time 11/8/96	Received by (Sig.)	Date/Time		Receipt Temp. _____ °C
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		Received on Ice (Circle)

Appendix E
2000 Groundwater and Soil Analytical Laboratory Reports

Copy: HHM, File

Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • Fax: 608-233-0502
1-888-5-ENCHEM

ENCHEM INC.

ret: WMB

Corporate Office & Laboratory
1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

Project Name: MEDLEY FARMS
Project Number: 938.89

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **900740**

✓ **Organic**
____ **Inorganic**
____ **QC Data**
____ **Diskette**

Ship By: ✓ First Class Mail ____ FedEx
____ Priority Mail ____ Other: _____

Comments:

QC - WMB, 4-11-00: HT, COC, temp, method, dl-SK
- due to presence in trip and lab method blanks, all methylene chloride hits should be qualified "u" as non-detect.

If you have any questions please call your Client Manager: **Kevin Hinckley**

03/17/00

CHAIN OF CUSTODY RECORD

№ 069740

RMT

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No.: 938.89

Project/Client: Medley Farms

Project Manager/Contact Person: SWW/WMB

Filtered (Yes/No): N

Preserved (Code): E

Analyses Requested: see ATTACHED

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. 900740	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX									Comments:
-001			TBLK-00101	3	DI	3								
-002	3-1	1245	MLW1-1	3	GW	3								
-003	3-1	1515	MLW3-3	3	GW	3								
-004	3-1	1610	MLW3-4	1	GW	1								*unable to collect more than one vial
-005	3-2	0945	MW-4-1	3	GW	3								
-006	3-2	1140	MW4-2	3	GW	3								
-007	3-2	1345	MW2-1	3	GW	3								
-008	3-2	1455	MW2-2	3	GW	3								
-009	3-2	1550	BW-108	3	GW	3								
-010	3-2	1715	BW-201	3	GW	3								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Bill Medlin	1700 3/3/00	Air Borne Ex # 639151936 3	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	3/4/00 1400	[illegible]	3-4-00 14:00
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 1°C ROI

Temp Blank: Y (N)

Receipt pH (Wet/Metals): NA

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

F-268 (R6/95)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - [illegible]LER/SUBMITTER

CHAIN OF CUSTODY RECORD

№ 069741

RMT

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 938.89

Project/Client: Medley Farms

Project Manager/Contact Person: SWW/WMB

Filtered (Yes/No): N

Preserved (Code): E

Analyses Requested: See Attached

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. 900740	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX									Comments:
-011	3-2	1710	FBLK-00101	3	DI	3								
-012	3-2	1745	BW-202	3	GW	3								
-013			DU-00101	3	GW	3								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Bill Medley	3/3/00 1700	AirBorne Ex # 6391519363	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	3/4/00 1400		
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 1°C ROI

Temp Blank Y (N)

Receipt pH (Wet/Metals): NA

Custody Seal: Present/(Absent) Intact/Not Intact Seal #'s

F-268 (R6/95)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • Fax: 608-233-0502
1-888-5-ENCHEM

EN CHEM INC.

Corporate Office & Laboratory
1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

- Analytical Report -

Project Name : MEDLEY FARMS

Project Number : 938.89

Client : RMT - GREENVILLE

Report Date : 03/17/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
900740-001	TBLK-00101	03/01/00			
900740-002	MLW1-1	03/01/00			
900740-003	MLW3-3	03/01/00			
900740-004	MLW3-4	03/01/00			
900740-005	MW-4-1	03/02/00			
900740-006	MW4-2	03/02/00			
900740-007	MW2-1	03/02/00			
900740-008	MW2-2	03/02/00			
900740-009	BW-108	03/02/00			
900740-010	BW-201	03/02/00			
900740-011	FBLK-00101	03/02/00			
900740-012	BW-202	03/02/00			
900740-013	DU-00101	03/01/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

Date 3/20/00

Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • Fax: 608-233-0502
1-888-5-ENCHEM

EN CHEM INC.

Corporate Office & Laboratory
1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : TBLK-00101
Lab Sample Number : 900740-001
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/01/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride	0.43	1.0	ug/L	J,B(1.3)	03/08/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MLW1-1
Lab Sample Number : 900740-002
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/01/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	0.68	1.0	ug/L	J	03/08/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	7.1	5.0	ug/L		03/08/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform	5.7	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride	1.4	1.0	ug/L	B(1.3)	03/08/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MLW3-3
Lab Sample Number : 900740-003
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/01/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane		0.67	1.0	ug/L	J	03/08/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethene		0.83	1.0	ug/L	J	03/08/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone		8.2	5.0	ug/L		03/08/00	SW846 8260B
Acetone		20	5.0	ug/L		03/08/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform		0.45	1.0	ug/L	J	03/08/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene		0.56	1.0	ug/L	J	03/08/00	SW846 8260B
Methylene chloride		0.91	1.0	ug/L	J,B(1.3)	03/08/00	SW846 8260B
Tetrachloroethene		2.6	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene		8.9	1.0	ug/L		03/08/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MLW3-4
Lab Sample Number : 900740-004
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/01/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		03/09/00	SW846 8260B
Acetone		4.0	5.0	ug/L	J	03/09/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		03/09/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
Tetrachloroethene	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		03/09/00	SW846 8260B
Trichloroethene	<	1.0	1.0	ug/L		03/09/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MW-4-1
Lab Sample Number : 900740-005
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.5	1.0	ug/L		03/09/00	SW846 8260B
1,1,2-Trichloroethane	5.4	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethene	8.6	1.0	ug/L		03/09/00	SW846 8260B
1,2-Dichloroethane	1.3	1.0	ug/L		03/09/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloroform	27	1.0	ug/L		03/09/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/09/00	SW846 8260B
cis-1,2-Dichloroethene	1.7	1.0	ug/L		03/09/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Tetrachloroethene	44	1.0	ug/L		03/09/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Trichloroethene	93	1.0	ug/L		03/09/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MW4-2
Lab Sample Number : 900740-006
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	0.86	1.0	ug/L	J	03/09/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethene	5.1	1.0	ug/L		03/09/00	SW846 8260B
1,2-Dichloroethane	1.1	1.0	ug/L		03/09/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloroform	14	1.0	ug/L		03/09/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/09/00	SW846 8260B
cis-1,2-Dichloroethene	1.8	1.0	ug/L		03/09/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Tetrachloroethene	50	1.0	ug/L		03/09/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Trichloroethene	160	1.0	ug/L		03/09/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MW2-1
Lab Sample Number : 900740-007
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane		1.5	1.0	ug/L		03/08/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane		0.91	1.0	ug/L	J	03/08/00	SW846 8260B
1,1-Dichloroethene		22	1.0	ug/L		03/08/00	SW846 8260B
1,2-Dichloroethane		3.1	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		03/08/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform		1.5	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene		1.7	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride		0.47	1.0	ug/L	J,B(1.3)	03/08/00	SW846 8260B
Tetrachloroethene		22	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene		36	1.0	ug/L		03/08/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : MW2-2
Lab Sample Number : 900740-008
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	2.5	1.0	ug/L		03/08/00	SW846 8260B
1,1,2-Trichloroethane	0.86	1.0	ug/L	J	03/08/00	SW846 8260B
1,1-Dichloroethane	1.1	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethene	12	1.0	ug/L		03/08/00	SW846 8260B
1,2-Dichloroethane	1.9	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform	2.7	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene	5.6	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Tetrachloroethene	22	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene	43	1.0	ug/L		03/08/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : BW-108
Lab Sample Number : 900740-009
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethene	0.67	1.0	ug/L	J	03/08/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene	1.2	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Tetrachloroethene	3.4	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene	4.8	1.0	ug/L		03/08/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : BW-201
Lab Sample Number : 900740-010
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane	0.61	1.0	ug/L	J	03/08/00	SW846 8260B
1,1-Dichloroethene	0.76	1.0	ug/L	J	03/08/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene	1.9	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Tetrachloroethene	3.7	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene	5.1	1.0	ug/L		03/08/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : FBLK-00101
Lab Sample Number : 900740-011
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/08/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/08/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		03/08/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : BW-202
Lab Sample Number : 900740-012
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/02/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/09/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Tetrachloroethene	3.5	1.0	ug/L		03/09/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Trichloroethene	1.1	1.0	ug/L		03/09/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.89
Field ID : DU-00101
Lab Sample Number : 900740-013
Lab Project Number : 900740

Submitter : RMT - GREENVILLE
Report Date : 03/17/00
Collection Date : 03/01/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	0.90	1.0	ug/L	J	03/09/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
1,1-Dichloroethene	5.4	1.0	ug/L		03/09/00	SW846 8260B
1,2-Dichloroethane	0.93	1.0	ug/L	J	03/09/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		03/09/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Chloroform	15	1.0	ug/L		03/09/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		03/09/00	SW846 8260B
cis-1,2-Dichloroethene	1.7	1.0	ug/L		03/09/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Tetrachloroethene	50	1.0	ug/L		03/09/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		03/09/00	SW846 8260B
Trichloroethene	160	1.0	ug/L		03/09/00	SW846 8260B

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to an approved lab.

copy: HKM, File

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Project Name: MEDLEY FARMS
Project Number: 938.90

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **902326**

✓ **Organic**
____ **Inorganic**
✓ **QC Data**
____ **Diskette**

Ship By: X First Class Mail ____ FedEx
____ Priority Mail ____ Other: _____

Comments:

Download to follow.
QC-WMB - 7-26-00: HT, temp, COC, method, dil - OK
TBLK - FBLK - OK
Duplicate RPD within acceptance criteria.

If you have any questions please call your Client Manager: **Kevin Hinckley**

Level 3 QC - OKV

7/17/00

CHAIN OF CUSTODY RECORD

No. 070074

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 938.90

Project/Client: Medley Farms

Project Manager/Contact Person: Steve Webb / Mark Bailey

Filtered (Yes/No): N

Preserved (Code): E

Analyses Requested: VOC method 8260

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. (Yr. 00)	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	Analyses Requested								Comments:
102326 -001	—	—	TBLK-00201	3	DI	3								
-002	6/27	1305	BW-201	3	GW	3								
-003		1355	BW-202	3		3								
-004		1435	MW4-2	3		3								
-005	6/28	1110	MW2-1	3		3								
-006		1220	MW2-2	3		3								
-007		1210	FBLK-00201	3	DI	3								
-008		1345	BW-108	3	GW	3								
-009		1530	MW4-1	3	GW	3								
-010	—	—	DU-00201	3	GW	3								

SPECIAL INSTRUCTIONS

6391682-662

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
[signature]	6-30-00	Airborne	6-30-00
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	7/1/00 09:15	[signature]	7/1/00 09:15
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 5°C ROI

Temp Blank: Y (N)

Receipt pH (Wet/Metals): NA

Custody Seal: (Present)/Absent (Intact)/Not Intact Seal #'s

F-268 (R10/99)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

CHAIN OF CUSTODY RECORD

№ 070075

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Project No. 938.90

Project/Client: Medley Farms

Project Manager/Contact Person: Steve Webb / M. Bailey

Analyses Requested: VOC method 8260

Filtered (Yes/No): N

Preserved (Code): E

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. (Yr. 00)	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX									Comments:
902326-011	6/30	0930	MLW-3-1	3	GW	3								
-012		0945	MLW-3-2	3		3								
-013		0955	MLW-3-3	3		3								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
[signature]	6-30-00	Airborne	6-30-00
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	7/1/00 09:15	[signature]	7/1/00 09:15
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 5°C ROI

Temp Blank Y N

Receipt pH (Wet/Metals): NA

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

F-268 (R10/9

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- Analytical Report -

Project Name : MEDLEY FARMS

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 7/17/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
902326-001	TBLK-00201	6/27/00			
902326-002	BW-201	6/27/00			
902326-003	BW-202	6/27/00			
902326-004	MW4-2	6/27/00			
902326-005	MW2-1	6/28/00			
902326-006	MW2-2	6/28/00			
902326-007	FBLK-00201	6/28/00			
902326-008	BW-108	6/28/00			
902326-009	MW4-1	6/28/00			
902326-010	DU-00201				
902326-011	MLW-3-1	6/30/00			
902326-012	MLW-3-2	6/30/00			
902326-013	MLW-3-3	6/30/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

7/17/00
Date

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : TBLK-00201
Lab Sample Number : 902326-001
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/27/00
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/6/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		7/6/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : BW-201
Lab Sample Number : 902326-002
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/27/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene		1.4	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene		5.8	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene		7.8	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : BW-202
Lab Sample Number : 902326-003
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/27/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene		4.6	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene		1.3	1.0	ug/L		7/7/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MW4-2
Lab Sample Number : 902326-004
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/27/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene		3.5	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform		9.8	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene		1.4	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene		37	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene		130	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MW2-1
Lab Sample Number : 902326-005
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.7	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	17	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	1.6	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	1.7	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	27	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	42	1.0	ug/L		7/7/00	SW846 8260B

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Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MW2-2
Lab Sample Number : 902326-006
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	2.1	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	1.4	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	7.2	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	2.8	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	7.8	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	22	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	57	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : FBLK-00201
Lab Sample Number : 902326-007
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : BW-108
Lab Sample Number : 902326-008
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene		1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene		1.8	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene		17	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene		21	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MW4-1
Lab Sample Number : 902326-009
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.5	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	6.7	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	31	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	1.7	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	64	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	140	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : DU-00201
Lab Sample Number : 902326-010
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date :
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.6	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	18	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	3.4	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	1.6	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	1.8	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	26	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	43	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MLW-3-1
Lab Sample Number : 902326-011
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/30/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	44	5.0	ug/L		7/7/00	SW846 8260B
Acetone	280	10	ug/L	D	7/10/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	2.5	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	9.3	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MLW-3-2
Lab Sample Number : 902326-012
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/30/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	13	5.0	ug/L		7/7/00	SW846 8260B
Acetone	59	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	2.3	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	8.2	1.0	ug/L		7/7/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY FARMS
Project Number : 938.90
Field ID : MLW-3-3
Lab Sample Number : 902326-013
Lab Project Number : 902326

Submitter : RMT - GREENVILLE
Report Date : 7/17/00
Collection Date : 6/30/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		7/7/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		7/7/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Tetrachloroethene	2.7	1.0	ug/L		7/7/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		7/7/00	SW846 8260B
Trichloroethene	11	1.0	ug/L		7/7/00	SW846 8260B

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.

Copy: HHM, File retainer

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Project Name: MEDLEY
Project Number: 938.90

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **903048**

✓ **Organic**
____ **Inorganic**
____ **QC Data**
____ **Diskette**

Ship By: ✓ First Class Mail X FedEx
____ Priority Mail ____ Other: _____

Comments:

QC to follow
Download to Karen Brooks
QC - WMB, 9-8-00: HT, (temp?), (COC?), method, dl, blanks - ok
- Dup RPD - ok

If you have any questions please call your Client Manager: **Kevin Hinckley**

9/5/00

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- Analytical Report -

Project Name : MEDLEY

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 9/5/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
903048-001	TBLK-00301	8/22/00			
903048-002	MW4-2	8/22/00			
903048-003	BW-201	8/22/00			
903048-004	BW-202	8/22/00			
903048-005	MLW3-1	8/22/00			
903048-006	MLW3-2	8/22/00			
903048-007	MLW-3-3	8/22/00			
903048-008	BW-108	8/23/00			
903048-009	FBLK-00301	8/23/00			
903048-010	DU-00301				
903048-011	MW2-1	8/23/00			
903048-012	MW2-2	8/23/00			
903048-013	MW4-1	8/23/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

Date 9/5/00

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : TBLK-00301
Lab Sample Number : 903048-001
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW4-2
Lab Sample Number : 903048-002
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane		1.4	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene		4.4	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane		1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform		13	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene		1.4	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene		42	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene		170	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-201
Lab Sample Number : 903048-003
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	0.64	1.0	ug/L	J	8/29/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	1.1	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	3.8	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene	6.2	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-202
Lab Sample Number : 903048-004
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene		4.0	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene		1.2	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MLW3-1
Lab Sample Number : 903048-005
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 10	10	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	< 10	10	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	< 10	10	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	< 10	10	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	< 10	10	ug/L		8/29/00	SW846 8260B
2-Butanone	130	50	ug/L		8/29/00	SW846 8260B
Acetone	1900	100	ug/L	D	8/30/00	SW846 8260B
Benzene	< 10	10	ug/L		8/29/00	SW846 8260B
Chloroform	< 10	10	ug/L		8/29/00	SW846 8260B
Chloromethane	< 20	20	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	< 10	10	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 10	10	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	< 10	10	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 10	10	ug/L		8/29/00	SW846 8260B
Trichloroethene	11	10	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MLW3-2
Lab Sample Number : 903048-006
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene		0.74	1.0	ug/L	J	8/29/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone		5.4	5.0	ug/L		8/29/00	SW846 8260B
Acetone		26	5.0	ug/L		8/29/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform		0.51	1.0	ug/L	J	8/29/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride		0.59	1.0	ug/L	J	8/29/00	SW846 8260B
Tetrachloroethene		2.3	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene		9.0	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MLW-3-3
Lab Sample Number : 903048-007
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/22/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	1.6	5.0	ug/L	J	8/29/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	1.4	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene	4.7	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-108
Lab Sample Number : 903048-008
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/23/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene		1.5	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene		1.3	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene		11	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene		15	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : FBLK-00301
Lab Sample Number : 903048-009
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/23/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : DU-00301
Lab Sample Number : 903048-010
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date :
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene		0.65	1.0	ug/L	J	8/29/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene		1.2	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene		4.0	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene		6.2	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW2-1
Lab Sample Number : 903048-011
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/23/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane		0.86	1.0	ug/L	J	8/29/00	SW846 8260B
1,1-Dichloroethene		21	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane		3.5	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform		1.5	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene		1.2	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene		15	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene		31	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW2-2
Lab Sample Number : 903048-012
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/23/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	1.2	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	10	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	2.6	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	3.6	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	6.3	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	21	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene	68	1.0	ug/L		8/29/00	SW846 8260B

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW4-1
Lab Sample Number : 903048-013
Lab Project Number : 903048

Submitter : RMT - GREENVILLE
Report Date : 9/5/00
Collection Date : 8/23/00
Matrix Type : WASTEWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1,2-Trichloroethane	8.8	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
1,1-Dichloroethene	8.5	1.0	ug/L		8/29/00	SW846 8260B
1,2-Dichloroethane	1.7	1.0	ug/L		8/29/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		8/29/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Chloroform	41	1.0	ug/L		8/29/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		8/29/00	SW846 8260B
cis-1,2-Dichloroethene	1.9	1.0	ug/L		8/29/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Tetrachloroethene	64	1.0	ug/L		8/29/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		8/29/00	SW846 8260B
Trichloroethene	150	1.0	ug/L		8/29/00	SW846 8260B

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.

Copy: HHM, File

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Project Name: MEDLEY
Project Number: 938.90

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **904500**

✓ **Organic**
✓ **Inorganic**
✓ **QC Data**
____ **Diskette**

Ship By: ____ First Class Mail ✓ FedEx
____ Priority Mail ____ Other: _____

Comments:

QC-WMB, 1-2-01: HT, temp, COC, method, dil, TBLK
Level 3 QC-OK

If you have any questions please call your Client Manager: **Kevin Hinckley**

12/21/00

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- Analytical Report -

Project Name : MEDLEY

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 12/21/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
904500-001	MW2-1	11/29/00			
904500-002	MW2-2	11/29/00			
904500-003	BW-108	11/29/00			
904500-004	SW-1	11/29/00			
904500-005	BW-1	11/29/00			
904500-006	TBLK00402	11/29/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

12/21/00
Date

Ew Chem

CHAIN OF CUSTODY RECORD

№ 069969

RMT

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 938.90

Project/Client: Medley

Project Manager/Contact Person: Harry Morris / Mark Bailey

Lab No. 904500	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	VOC Method 8260	Alkalinity	Total Iron	Nitrate/Sulfate/Chloride/Nitrite	Nitrate	Sulfide			Comments:
Filtered (Yes/No)						N	N	N	N	N	N			
Preserved (Code)						E	A	B		C	D*			
-001	11/29	1015	MW2-1	8	GW	3	1	1	1	1	1			
-002	11/29	1200	MW2-2	8	GW	3	1	1	1	1	1			(*)
-003	11/29	1335	BW-108	8	GW	3	1	1	1	1	1			label error
-004	11/29	1520	SW-1	8	GW	3	1	1	1	1	1			
-005	11/29	1635	BW-1	8	GW	3	1	1	1	1	1			
-006	11/29	—	TBLK00402	3	—									
														*Note: pH greater than 9 with Zinc Acetate

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

SPECIAL INSTRUCTIONS: Air Bill #8197-2431-0896

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Joey Werner	1800 11-29-00	FedEx	1800 11-29-00
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
FedEx	11/30/00 1010	[signature]	11/30/00 1010
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 3°C ROI

Temp Blank Y (N)

Receipt pH (Wet/Metals) (*) adjusted

Custody Seal: (Present) Absent (Intact) Not Intact Seal #'s

F-268 (R6/95)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW2-1
Lab Sample Number : 904500-001
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	3600	50	ug/L		12/13/00	SW846-3015	SW846 6010B
Alkalinity as CaCO3	140	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	2.3	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	0.30	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Sulfate	17	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		12/4/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW2-2
Lab Sample Number : 904500-002
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	19000	50	ug/L		12/13/00	SW846-3015	SW846 6010B
Alkalinity as CaCO3	110	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	9.0	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	< 0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Sulfate	17	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		12/4/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-108
Lab Sample Number : 904500-003
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	230	50	ug/L		12/13/00	SW846-3015	SW846 6010B
Alkalinity as CaCO3	60	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	2.4	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	< 0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Sulfate	< 10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		12/4/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : SW-1
Lab Sample Number : 904500-004
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	7700	50	ug/L		12/13/00	SW846-3015	SW846 6010B
Alkalinity as CaCO3	24	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	3.4	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	1.0	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Sulfate	< 10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		12/4/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-1
Lab Sample Number : 904500-005
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test		Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	<	50	50	ug/L		12/13/00	SW846-3015	SW846 6010B
Alkalinity as CaCO3		31	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride		2.8	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate		0.88	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	<	0.20	0.20	mg/L		11/30/00	EPA 300.0	EPA 300.0
Sulfate	<	10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide		1.1	1.0	mg/L		12/4/00	EPA 376.1	EPA 376.1

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Project Name : MEDLEY
Project Number : 938.90
Field ID : MW2-1
Lab Sample Number : 904500-001
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane		1.2	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane		0.76	1.0	ug/L	J	12/1/00	SW846 8260B
1,1-Dichloroethene		16	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane		2.9	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform		1.4	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene		1.5	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene		16	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene		30	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : MW2-2
Lab Sample Number : 904500-002
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	2.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	7.0	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	6.7	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	6.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	7.1	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	22	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	75	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-108
Lab Sample Number : 904500-003
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene		0.66	1.0	ug/L	J	12/1/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene		1.2	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene		4.2	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene		6.0	1.0	ug/L		12/1/00	SW846 8260B

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Analytical Report

Corporate Office & Laboratory
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Green Bay, WI 54302
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Project Name : MEDLEY
Project Number : 938.90
Field ID : SW-1
Lab Sample Number : 904500-004
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : BW-1
Lab Sample Number : 904500-005
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : TBLK00402
Lab Sample Number : 904500-006
Lab Project Number : 904500

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 11/29/00
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B

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Inorganic Data Qualifier Sheet

A	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
AI	Due to the matrix of this sample the alternate isotope was used for analysis.
B	The analyte has been detected between the Method Detection Limit (MDL) and Method Reporting Limit (MRL). The results are qualified due to the uncertainty of analyte concentrations within this range.
BB	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
BD	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
BI	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
BL	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
BX	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
DA	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
DF	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
E	Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentrations greater than 50 times the EQL (100 times the IDL for analysis done on the ICP-MS). The result was flagged with the E qualifier to indicate that a physical interference was observed.
ED	Elevated detection limit due to matrix effects.
G	Unable to determine precision due to matrix interference.
H(n)	Analysis performed "n" days past holding time (See Sample Narrative).
K	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
LV	Elevated detection limit due to low sample volume.
MS	Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.

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N	Spiked sample recovery not within control limits; post-digestion spike recovery accepted.
NP	Digested and post-digested spike recoveries fail accuracy control limits.
NR	Not required.
Q	The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
SUB	Assay was subcontracted to an approved lab.
UN	Unable to preserve sample due to matrix.
X	See sample narrative.
*	Duplicate analyses not within control limits.

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to an approved lab.

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- Analytical Report -

Project Name : MEDLEY

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 12/15/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
904483-001	DP2-1	11/28/00			
904483-002	DP3-2	11/28/00			
904483-003	DP3-1	11/28/00			
904483-004	MW4-2	11/28/00			
904483-005	TBLK00401	11/28/00			
904483-006	SW-101	11/28/00			
904483-007	SW-102	11/28/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

12/15/00
Date

CHAIN OF CUSTODY RECORD

№ 067681

RMT

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 938.90

Project/Client: Medley

Project Manager/Contact Person: Harry Morris / Mark Bailey

Filtered (Yes/No): N N N N N N N N

Preserved (Code): E A B C D* C

Analyses Requested: VOC Method 8260; Alkalinity; Total Iron; Nitrate/Sulfate/Chloride/Nitrite; Nitrate; Sulfide; Dissolved Organic Carbons (D.O.C. to be resubmitted) RLB 11/29/00

PRESERVED CODES: A - NONE; B - HNO_3; C - H_2SO_4; D - NaOH; E - HCl; F - METHANOL; G - _____

Lab No. 904483	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	VOC Method 8260	Alkalinity	Total Iron	Nitrate/Sulfate/Chloride/Nitrite	Nitrate	Sulfide	Dissolved Organic Carbons		Comments:
-001	11/28	1135	DP2-1	9	GW	3	1	1	1	1	1	1		
-002	11/28	1215	DP3-2	9	GW	3	1	1						Assume client requests total RLB's analysis listed based on bottles rec'd
-003	11/28	1255	DP3-1	9	GW	3	1	1	1	1	1	1		
-004	11/28	1500	MW4-2	9	GW	3	1	1	1	1	1	1		
-005	11/28	—	TBLK00401	3										
-006	11/28	1630	SW-101	9	GW	3	1	1	1	1	1	1		
-007	11/28	1700	SW-102	9	GW	3	1	1	1	1	1	1		(*)
														*- Plus Zinc Acetate
														To pH ● 9
														Greater Than

SPECIAL INSTRUCTIONS: Airbill # 8197-2431-0576

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Joey Werner	1800 11-28-00	FedEx	1800 11-28-00
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
FedEx 11/29/00	1000	[signature] 11/29/00	1000
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list)

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: Temp Blank Y N

0°C ROI

Receipt pH (Wet/Metals): (*) adjusted

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

F-268 (R6/95)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : DP2-1
Lab Sample Number : 904483-001
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	61	50	ug/L		12/11/00	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	52	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	6.1	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	1.7	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Sulfate	< 10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		11/30/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : DP3-2
Lab Sample Number : 904483-002
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	< 50	50	ug/L		12/11/00	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	56	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	4.7	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	0.74	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Sulfate	< 10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		11/30/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : DP3-1
Lab Sample Number : 904483-003
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	< 50	50	ug/L		12/11/00	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	60	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	3.8	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	0.25	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Sulfate	< 10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		11/30/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : MW4-2
Lab Sample Number : 904483-004
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	3300	50	ug/L		12/11/00	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	50	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	4.1	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	1.0	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Sulfate	12	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		11/30/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : SW-101
Lab Sample Number : 904483-006
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	4600	50	ug/L		12/11/00	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	73	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	5.1	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Sulfate	< 10	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		11/30/00	EPA 376.1	EPA 376.1

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- Analytical Report -

Project Name : MEDLEY
Project Number : 938.90
Field ID : SW-102
Lab Sample Number : 904483-007
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Iron	43000	50	ug/L		12/11/00	SW846 3010A	SW846 6010B
Alkalinity as CaCO3	110	20	mg/L	A(10.3)	12/6/00	EPA 310.2	EPA 310.2
Chloride	5.9	2.0	mg/L		11/30/00	EPA 325.1	EPA 325.1
Nitrogen, nitrate	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Nitrogen, nitrite	< 0.20	0.20	mg/L		11/29/00	EPA 300.0	EPA 300.0
Sulfate	12	10	mg/L		11/30/00	EPA 375.2	EPA 375.2
Sulfide	< 1.0	1.0	mg/L		11/30/00	EPA 376.1	EPA 376.1

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Inorganic Data Qualifier Sheet

A	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
AI	Due to the matrix of this sample the alternate isotope was used for analysis.
B	The analyte has been detected between the Method Detection Limit (MDL) and Method Reporting Limit (MRL). The results are qualified due to the uncertainty of analyte concentrations within this range.
BB	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
BD	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
BI	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
BL	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
BX	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
DA	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
DF	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
E	Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentrations greater than 50 times the EQL (100 times the IDL for analysis done on the ICP-MS). The result was flagged with the E qualifier to indicate that a physical interference was observed.
ED	Elevated detection limit due to matrix effects.
G	Unable to determine precision due to matrix interference.
H(n)	Analysis performed "n" days past holding time (See Sample Narrative).
K	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
LV	Elevated detection limit due to low sample volume.
MS	Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.

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N	Spiked sample recovery not within control limits; post-digestion spike recovery accepted.
NP	Digested and post-digested spike recoveries fail accuracy control limits.
NR	Not required.
Q	The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
SUB	Assay was subcontracted to an approved lab.
UN	Unable to preserve sample due to matrix.
X	See sample narrative.
*	Duplicate analyses not within control limits.

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Analytical Report

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Project Name : MEDLEY
Project Number : 938.90
Field ID : DP2-1
Lab Sample Number : 904483-001
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane		1.1	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene		2.6	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform		1.4	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene		3.5	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene		67	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene		46	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : DP3-2
Lab Sample Number : 904483-002
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane		22	5.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene		140	5.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane		75	5.0	ug/L		12/1/00	SW846 8260B
2-Butanone	<	25	25	ug/L		12/1/00	SW846 8260B
Acetone	<	25	25	ug/L		12/1/00	SW846 8260B
Benzene	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Chloroform		96	5.0	ug/L		12/1/00	SW846 8260B
Chloromethane	<	10	10	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene		14	5.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene		800	5.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Trichloroethene		970	5.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : DP3-1
Lab Sample Number : 904483-003
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	2.2	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	7.7	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	1.5	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	7.8	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	0.66	1.0	ug/L	J	12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	28	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	120	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : MW4-2
Lab Sample Number : 904483-004
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	0.55	1.0	ug/L	J	12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	3.1	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	16	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	1.9	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	55	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	200	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : TBLK00401
Lab Sample Number : 904483-005
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : SW-101
Lab Sample Number : 904483-006
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	0.80	1.0	ug/L	J	12/1/00	SW846 8260B

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Project Name : MEDLEY
Project Number : 938.90
Field ID : SW-102
Lab Sample Number : 904483-007
Lab Project Number : 904483

Submitter : RMT - GREENVILLE
Report Date : 12/15/00
Collection Date : 11/28/00
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
1,1-Dichloroethene		0.76	1.0	ug/L	J	12/1/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/1/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/1/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Tetrachloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B
Trichloroethene	<	1.0	1.0	ug/L		12/1/00	SW846 8260B

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.

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Project Name: MEDLEY FARM

Project Number: 938.90

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **904551**

✓ **Organic**
✓ **Inorganic**
✓ **QC Data**
____ **Diskette**

Ship By: ✓ First Class Mail ____ FedEx
____ Priority Mail ____ Other: _____

Comments:

QC-WMB, 1-2-01: HT, temp, COC, dil, methods, blks-OK ✓
Cert 3 QC-OK ✓
Due to MSD recovery and duplicate RPD out of control, samples A-1,3,4,5,6,7, B-2,3, BW-201,202,105,110 and DU00401 for tetrachloroethene and trichloroethene; and A-2, B-1,4, MW4-1 and DU00402 for tetrachloroethene trichloroethene and 1,1,2-trichloroethane; and MW1-3 for 1,1,1, trichloroethane.

If you have any questions please call your Client Manager: **Kevin Hinckley**

Should be qualified "j" as estimated.

12/26/00

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- Analytical Report -

Project Name : MEDLEY FARM

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 12/26/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
904551-001	A-1	11/30/00	904551-030	BW-108	11/30/00
904551-002	A-2	11/30/00	904551-031	SW-1	11/30/00
904551-003	A-3	11/30/00	904551-032	BW-1	11/30/00
904551-004	A-4	11/30/00	904551-033	DU-00402	
904551-005	A-5	11/30/00	904551-034	TRIP BLANK 00403	11/30/00
904551-006	A-6	11/30/00	904551-035	SW-102	11/29/00
904551-007	A-7	11/30/00	904551-036	DP3-1	11/29/00
904551-008	B-1	11/30/00	904551-037	DP2-1	11/29/00
904551-009	FBLK-00401	11/30/00	904551-038	MW-4-2	11/29/00
904551-010	B-2	11/30/00	904551-039	SW-101	11/29/00
904551-011	B-3	11/30/00	904551-040	DP3-2	11/29/00
904551-012	B-4	11/30/00			
904551-013	MLW1-1	12/1/00			
904551-014	MLW1-2	12/1/00			
904551-015	MLW1-3	12/1/00			
904551-016	BW202	12/1/00			
904551-019	FBLK00402	12/1/00			
904551-020	BW-201	12/1/00			
904551-021	BW-105	12/1/00			
904551-022	DU-00401				
904551-023	BW-110	12/1/00			
904551-024	BW-3	12/1/00			
904551-025	MW4-1	12/1/00			
904551-028	MW2-1	11/30/00			
904551-029	MW2-2	11/30/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

12/26/00
Date

CHAIN OF CUSTODY RECORD

№ 070795

RMT®

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Project No. 938.90

Project/Client: MEDLEY

Project Manager/Contact Person: HALLY MORRIS / MARK BAILEY

Filtered (Yes/No): N

Preserved (Code): F

Analyses Requested: VOC'S.

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. 04551	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	VOC'S.								Comments:
-001	11-30	1120	A-1	3	GW	3								
-002	11-30	1200	A-2	3	GW	3								
-003	11-30	1220	A-3	3	GW	3								
-004	11-30	1300	A-4	3	GW	3								
-005	11-30	1345	A-5	3	GW	3								
-006	11-30	1430	A-6	3	GW	3								
-007	11-30	1515	A-7	3	GW	3								
-008	11-30	1545	B-1	3	GW	3								
-009	11-30	1600	FBLK-00401	3	GW	3								
-010	11-30	1620	B-2	3	GW	3								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
		Airborne	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	12/2/00 09:20	[illegible]	12/2/00 09:20
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 2°C ROI

Temp Blank: Y (N)

Receipt pH (Wet/Metals): NA

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

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CHAIN OF CUSTODY RECORD

№ 070796

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Project No. 938.90

Project/Client: MEDLEY

Project Manager/Contact Person: HARRY MORRIS / MARK BAILEY

Filtered (Yes/No): N

Preserved (Code): E

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. 104551	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	Analyses Requested: VOC's								Comments:
-011	11-30	1645	B-3	3	GW	3								
-012	11-30	1715	B-4	3	GW	3								
-013	12-1	0920	MLW1-1	3	GW	3								
-014	12-1	1000	MLW1-2	3	GW	3								
-015	12-1	1030	MLW1-3	3	GW	3								
-016, -017, -018	12-1	1145	BW202 MS/MSD	9	GW	9								
-019	12-1	1150	FBLK. 00402	3	GW	3								
-020	12-1	1300	BW-201	3	GW	3								Rcvd 1 broken vial.
-021	12-1	1400	BW 105	3	GW	3								↓ KM 12/4/00
-022	[illegible]	[illegible]	DU-00401	3	GW	3								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
		Airborne	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	12/2/00 09:20	[signature]	12/2/00 09:20
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp:

Temp Blank Y (N)

2°C ROI

Receipt pH (Wet/Metals)

NA

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

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Project No. 938.90

Project/Client: MEOLEY

Project Manager/Contact Person:

Filtered (Yes/No): N Y

Preserved (Code): E C

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. (Yr. 00)	Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	VOC'S	DOC'S							Comments:
704551-023	12-1	1500	BW-110	3	GW	3								
-024	12-1	1600	BW-3	3	GW	3								
-025 -026 -027	12-1	1640	MW4-1 MS/MSD	9	GW	9								
-028	11-30	1015	MW 2-1	1	GW	~~1~~	1							
-029	11-30	1030	MW 2-2	1	GW	~~1~~	1							
-030	11-30	1045	BW-108	1	GW	~~1~~	1							Rcvd bottle w/ broken cap.
-031	11-30	1100	SW-1	1	GW	~~1~~	1							
-032	11-30	1115	BW-1	1	GW		1							
-033			DU-00402	3	GW	3								

SPECIAL INSTRUCTIONS
-034 trip blank - 00403

trip blank rcvd. Kim 12/4/00

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
		Airborne	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	12/2/00 09:30	[illegible]	12/2/00 09:20
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 2°C RDI

Temp Blank Y (N)

Receipt pH (Wet/Metals) ~~NA~~ OK

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

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Project No. 938.90

Project/Client: Medley

Project Manager/Contact Person: Harry Morris \ Mark Bailey

Filtered (Yes/No): Y

Preserved (Code): C

Analyses Requested: Dissolved Organic Carbon

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. 904551	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	Dissolved Organic Carbon								Comments:
-035	11/29	1050	SW-102	1	GW	1								
-036	11/29	1110	DP3-1	1	GW	1								
-037	11/29	1050	DP2-1	1	GW	1								
-038	11/29	1110	MW-4-2	1	GW	1								
-039	11/29	1100	SW-101	1	GW	1								
-040	11/29	1100	DP3-2	1	GW	1								
														This COC:
														Resampled from pts rcvd. on
														11/29 904483 added to new batch
														per Mindy Hakala - RJR 12/4/00

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Joey Weeman		Airborne	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	12/2/00 0920	Kathy Wagner	12/2/00 09:20
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list)

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: Temp Blank Y N

2°C ROI

Receipt pH (Wet/Metals) ~~NA~~ OK

VAW 12/4/00

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MW2-1
Lab Sample Number : 904551-028
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	4.9	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MW2-2
Lab Sample Number : 904551-029
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	3.5	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW-108
Lab Sample Number : 904551-030
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.6	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : SW-1
Lab Sample Number : 904551-031
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.3	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW-1
Lab Sample Number : 904551-032
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	1.9	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : SW-102
Lab Sample Number : 904551-035
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/29/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.0	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DP3-1
Lab Sample Number : 904551-036
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/29/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	3.7	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DP2-1
Lab Sample Number : 904551-037
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/29/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.4	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MW-4-2
Lab Sample Number : 904551-038
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/29/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.7	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : SW-101
Lab Sample Number : 904551-039
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/29/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.0	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DP3-2
Lab Sample Number : 904551-040
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/29/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
TOC as NPOC - Filtered	2.9	1.0	mg/L		12/21/00	EPA 415.1	EPA 415.1

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-1
Lab Sample Number : 904551-001
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane		0.54	1.0	ug/L	J	12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane		0.76	1.0	ug/L	J	12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		4.0	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		4.9	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		11	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		47	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-2
Lab Sample Number : 904551-002
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	3.5	2.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	2.2	2.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	1.1	2.0	ug/L	J	12/6/00	SW846 8260B
2-Butanone	< 10	10	ug/L		12/6/00	SW846 8260B
Acetone	< 10	10	ug/L		12/6/00	SW846 8260B
Benzene	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
Chloroform	21	2.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 4.0	4.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	3.4	2.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	64	2.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	210	2.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-3
Lab Sample Number : 904551-003
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene		6.2	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane		1.2	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		4.4	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		2.6	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		20	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		39	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-4
Lab Sample Number : 904551-004
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	0.56	1.0	ug/L	J	12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	6.1	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	5.5	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-5
Lab Sample Number : 904551-005
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane		0.74	1.0	ug/L	J	12/6/00	SW846 8260B
1,1-Dichloroethene		7.5	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane		1.4	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		3.7	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		3.6	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		26	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		55	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-6
Lab Sample Number : 904551-006
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	1.2	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	0.46	1.0	ug/L	J	12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	3.7	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	5.9	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : A-7
Lab Sample Number : 904551-007
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene		5.9	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		2.2	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		2.4	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		40	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		53	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : B-1
Lab Sample Number : 904551-008
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	1.1	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	2.4	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	9.6	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	25	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	36	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : FBLK-00401
Lab Sample Number : 904551-009
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/5/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/5/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/5/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : B-2
Lab Sample Number : 904551-010
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene		21	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		8.9	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		0.71	1.0	ug/L	J	12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		47	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		190	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : B-3
Lab Sample Number : 904551-011
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	41	5.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	4.0	5.0	ug/L	J	12/6/00	SW846 8260B
2-Butanone	< 25	25	ug/L		12/6/00	SW846 8260B
Acetone	< 25	25	ug/L		12/6/00	SW846 8260B
Benzene	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Chloroform	40	5.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 10	10	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	4.0	5.0	ug/L	J	12/6/00	SW846 8260B
Methylene chloride	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	210	5.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	810	5.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : B-4
Lab Sample Number : 904551-012
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 11/30/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane		1.4	2.0	ug/L	J	12/6/00	SW846 8260B
1,1-Dichloroethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene		52	2.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane		3.0	2.0	ug/L		12/6/00	SW846 8260B
2-Butanone	<	10	10	ug/L		12/6/00	SW846 8260B
Acetone	<	10	10	ug/L		12/6/00	SW846 8260B
Benzene	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
Chloroform		27	2.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	4.0	4.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		9.6	2.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		73	2.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		200	2.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MLW1-1
Lab Sample Number : 904551-013
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	0.41	1.0	ug/L	J	12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B

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Analytical Report

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MLW1-2
Lab Sample Number : 904551-014
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	12	5.0	ug/L		12/6/00	SW846 8260B
Acetone	9.2	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	7.7	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	0.94	1.0	ug/L	J	12/6/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MLW1-3
Lab Sample Number : 904551-015
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	1.6	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	3.5	5.0	ug/L	J	12/6/00	SW846 8260B
Acetone	34	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	5.9	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW202
Lab Sample Number : 904551-016
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	3.7	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	1.0	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : FBLK00402
Lab Sample Number : 904551-019
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/5/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/5/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/5/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		12/5/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW-201
Lab Sample Number : 904551-020
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	0.51	1.0	ug/L	J	12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	4.9	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	6.7	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW-105
Lab Sample Number : 904551-021
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane		0.56	1.0	ug/L	J	12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		2.8	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		0.90	1.0	ug/L	J	12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		1.2	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DU-00401
Lab Sample Number : 904551-022
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date :
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	38	5.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	3.9	5.0	ug/L	J	12/6/00	SW846 8260B
2-Butanone	< 25	25	ug/L		12/6/00	SW846 8260B
Acetone	< 25	25	ug/L		12/6/00	SW846 8260B
Benzene	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Chloroform	38	5.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 10	10	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	3.8	5.0	ug/L	J	12/6/00	SW846 8260B
Methylene chloride	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	240	5.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	720	5.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW-110
Lab Sample Number : 904551-023
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	1.1	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	0.74	1.0	ug/L	J	12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	0.50	1.0	ug/L	J	12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	1.6	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : BW-3
Lab Sample Number : 904551-024
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene		0.90	1.0	ug/L	J	12/6/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MW4-1
Lab Sample Number : 904551-025
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date : 12/1/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane		11	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene		6.2	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane		1.6	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone		2.3	5.0	ug/L	J	12/6/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform		48	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene		2.4	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene		64	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene		170	1.0	ug/L		12/6/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DU-00402
Lab Sample Number : 904551-033
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date :
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1,2-Trichloroethane	13	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
1,1-Dichloroethene	5.7	1.0	ug/L		12/6/00	SW846 8260B
1,2-Dichloroethane	1.8	1.0	ug/L		12/6/00	SW846 8260B
2-Butanone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		12/6/00	SW846 8260B
Benzene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Chloroform	45	1.0	ug/L		12/6/00	SW846 8260B
Chloromethane	< 2.0	2.0	ug/L		12/6/00	SW846 8260B
cis-1,2-Dichloroethene	2.3	1.0	ug/L		12/6/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Tetrachloroethene	75	1.0	ug/L		12/6/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L		12/6/00	SW846 8260B
Trichloroethene	160	1.0	ug/L		12/6/00	SW846 8260B

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Analytical Report

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Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : TRIP BLANK 00403
Lab Sample Number : 904551-034
Lab Project Number : 904551

Submitter : RMT - GREENVILLE
Report Date : 12/26/00
Collection Date :
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
2-Butanone	<	5.0	5.0	ug/L		12/5/00	SW846 8260B
Acetone	<	5.0	5.0	ug/L		12/5/00	SW846 8260B
Benzene	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
Chloroform	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
Chloromethane	<	2.0	2.0	ug/L		12/5/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
Methylene chloride	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
Tetrachloroethene	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1.0	ug/L		12/5/00	SW846 8260B
Trichloroethene	<	1.0	1.0	ug/L		12/5/00	SW846 8260B

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.

Copy: HHM, File

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Project Name: MEDLEY FARM

Project Number: 938.90

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **904589**

✓ **Organic**
____ **Inorganic**
____ **QC Data**
____ **Diskette**

Ship By: ____ First Class Mail ✓ FedEx
____ Priority Mail ____ Other: _____

Comments:

QC- WMB, 1-2-00: HT, temp, DOC, dl, method, TBLK-ok
Level 3 QC- OK✓

If you have any questions please call your Client Manager: **Kevin Hinckley**

12/21/00

CHAIN OF CUSTODY RECORD

№ 070798

RMT

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 938.90

Project/Client: MEDLEY

Project Manager/Contact Person: HARRY MORRIS / MARK BAILEY.

Filtered (Yes/No): N

Preserved (Code): E

Analyses Requested: VOC'S

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No. 904584	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	VOC'S								Comments:
-001	12-4-00	1155	MLW 3-1	3	GW	3								
-002	12-4-00	1215	MLW 3-2	3	GW	3.								
-003	12-4	1240	MLW 3-3	3	GW	3.								
-004			TBLK-00404	3	DI	3								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Joseph R Lamb	12-5-00/900	Airborne	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	12/6/00 1015	[illegible]	12/6/00 1015
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 2°C ROI

Temp Blank Y (N)

Receipt pH (Wet/Metals) NA

Custody Seal: (Present)/Absent (Intact)/Not Intact Seal #'s

F-268 (R10/99)

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

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- Analytical Report -

Project Name : MEDLEY FARM

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 12/21/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
904589-001	MLW3-1	12/4/00			
904589-002	MLW3-2	12/4/00			
904589-003	MLW3-3	12/4/00			
904589-004	TBLK-00404	12/4/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

12/21/00
Date

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Analytical Report

Corporate Office & Laboratory
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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MLW3-1
Lab Sample Number : 904589-001
Lab Project Number : 904589

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 12/4/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	2.0	2	ug/L		12/8/00	SW846 8260B
1,1,2-Trichloroethane	<	2.0	2	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethane	<	2.0	2	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethene	<	2.0	2	ug/L		12/8/00	SW846 8260B
1,2-Dichloroethane	<	2.0	2	ug/L		12/8/00	SW846 8260B
2-Butanone		21	10	ug/L		12/8/00	SW846 8260B
Acetone		120	10	ug/L		12/8/00	SW846 8260B
Benzene	<	2.0	2	ug/L		12/8/00	SW846 8260B
Chloroform	<	2.0	2	ug/L		12/8/00	SW846 8260B
Chloromethane	<	4.0	4	ug/L		12/8/00	SW846 8260B
cis-1,2-Dichloroethene	<	2.0	2	ug/L		12/8/00	SW846 8260B
Methylene chloride	<	2.0	2	ug/L		12/8/00	SW846 8260B
Tetrachloroethene		2.0	2	ug/L		12/8/00	SW846 8260B
trans-1,2-Dichloroethene	<	2.0	2	ug/L		12/8/00	SW846 8260B
Trichloroethene		7.2	2	ug/L		12/8/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MLW3-2
Lab Sample Number : 904589-002
Lab Project Number : 904589

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 12/4/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
2-Butanone	10	5	ug/L		12/8/00	SW846 8260B
Acetone	42	5	ug/L		12/8/00	SW846 8260B
Benzene	< 1.0	1	ug/L		12/8/00	SW846 8260B
Chloroform	< 1.0	1	ug/L		12/8/00	SW846 8260B
Chloromethane	< 2.0	2	ug/L		12/8/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
Methylene chloride	< 1.0	1	ug/L		12/8/00	SW846 8260B
Tetrachloroethene	2.8	1	ug/L		12/8/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
Trichloroethene	9.5	1	ug/L		12/8/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : MLW3-3
Lab Sample Number : 904589-003
Lab Project Number : 904589

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 12/4/00
Matrix Type : GROUNDWATER
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte		Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	<	1.0	1	ug/L		12/8/00	SW846 8260B
1,1,2-Trichloroethane	<	1.0	1	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethane	<	1.0	1	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethene	<	1.0	1	ug/L		12/8/00	SW846 8260B
1,2-Dichloroethane	<	1.0	1	ug/L		12/8/00	SW846 8260B
2-Butanone	<	5.0	5	ug/L		12/8/00	SW846 8260B
Acetone		6.9	5	ug/L		12/8/00	SW846 8260B
Benzene	<	1.0	1	ug/L		12/8/00	SW846 8260B
Chloroform	<	1.0	1	ug/L		12/8/00	SW846 8260B
Chloromethane	<	2.0	2	ug/L		12/8/00	SW846 8260B
cis-1,2-Dichloroethene	<	1.0	1	ug/L		12/8/00	SW846 8260B
Methylene chloride	<	1.0	1	ug/L		12/8/00	SW846 8260B
Tetrachloroethene		2.9	1	ug/L		12/8/00	SW846 8260B
trans-1,2-Dichloroethene	<	1.0	1	ug/L		12/8/00	SW846 8260B
Trichloroethene		9.4	1	ug/L		12/8/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : TBLK-00404
Lab Sample Number : 904589-004
Lab Project Number : 904589

Submitter : RMT - GREENVILLE
Report Date : 12/21/00
Collection Date : 12/4/00
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1	ug/L		12/8/00	SW846 8260B
2-Butanone	< 5.0	5	ug/L		12/8/00	SW846 8260B
Acetone	< 5.0	5	ug/L		12/8/00	SW846 8260B
Benzene	< 1.0	1	ug/L		12/8/00	SW846 8260B
Chloroform	< 1.0	1	ug/L		12/8/00	SW846 8260B
Chloromethane	< 2.0	2	ug/L		12/8/00	SW846 8260B
cis-1,2-Dichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
Methylene chloride	< 1.0	1	ug/L		12/8/00	SW846 8260B
Tetrachloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
trans-1,2-Dichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B
Trichloroethene	< 1.0	1	ug/L		12/8/00	SW846 8260B

MICROSEEPS

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd

Greenville, SC 28608

Page: Page 1 of 7
Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Sample Identification

Lab Sample #	Client Sample ID
P0011184-01	DP2-1
P0011184-02	DP3-2
P0011184-03	DP3-1
P0011184-04	MW4-2
P0011184-05	SW-101
P0011184-06	SW-102

Approved By: Rebecca J. Harris

220 William Pitt Way, Pittsburgh, PA 15238 • Phone (412) 826-5245, Fax (412) 826-3433

Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011184-01

Sample Description	Matrix	Sampled Date/Time	Received
DP2-1	Water	28 Nov. 00 11:35	29 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	7.7	5.0	ng/L	AM18
Methane	0.15	0.015	ug/L	

Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011184-02

Sample Description	Matrix	Sampled Date/Time	Received
DP3-2	Water	28 Nov. 00 12:15	29 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	7.6	5.0	ng/L	AM18
Methane	0.44	0.015	ug/L	

Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011184-03

Sample Description	Matrix	Sampled Date/Time	Received
DP3-1	Water	28 Nov. 00 12:55	29 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	< 5.0	5.0	ng/L	AM18
Methane	0.15	0.015	ug/L	

Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011184-04

Sample Description	Matrix	Sampled Date/Time	Received
MW4-2	Water	28 Nov. 00 15:00	29 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	40	5.0	ng/L	AM18
Methane	0.22	0.015	ug/L	

Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011184-05

Sample Description	Matrix	Sampled Date/Time	Received
SW-101	Water	28 Nov. 00 16:30	29 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	51	5.0	ng/L	AM18
Methane	2.9	0.015	ug/L	

Order #: P0011184
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011184-06

Sample Description	Matrix	Sampled Date/Time	Received
SW-102	Water	28 Nov. 00 17:00	29 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	25	5.0	ng/L	AM18
Methane	0.18	0.015	ug/L	

MICROSEEPS

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd

Greenville, SC 28608

Page: Page 1 of 6
Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Sample Identification

Lab Sample #	Client Sample ID
P0011194-01	MW2-1
P0011194-02	MW2-2
P0011194-03	BW-108
P0011194-04	SW-1
P0011194-05	BW-1

Approved By: Rebecca J. Hamo

220 William Pitt Way, Pittsburgh, PA 15238 • Phone (412) 826-5245, Fax (412) 826-3433

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medlev
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-01

Sample Description	Matrix	Sampled Date/Time	Received
MW2-1	Water	29 Nov. 00 10:15	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	400	5.0	ng/L	AM18
Methane	5.4	0.015	ug/L	

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-02

Sample Description	Matrix	Sampled Date/Time	Received
MW2-2	Water	29 Nov. 00 12:00	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	2.4	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	11	5.0	ng/L	AM18
Methane	8.0	0.015	ug/L	

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-03

Sample Description	Matrix	Sampled Date/Time	Received
BW-108	Water	29 Nov. 00 13:35	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	< 5.0	5.0	ng/L	AM18
Methane	2.2	0.015	ug/L	

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-04

Sample Description	Matrix	Sampled Date/Time	Received
SW-1	Water	29 Nov. 00 15:20	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	< 5.0	5.0	ng/L	AM18
Methane	3.5	0.015	ug/L	

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-05

Sample Description	Matrix	Sampled Date/Time	Received
BW-1	Water	29 Nov. 00 16:35	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #
WetChem				
Water				
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe
RiskAnalysis				
Water				
Ethane	< 5.0	5.0	ng/L	AM18
Methane	1.8	0.015	ug/L	

copy: [redacted],
File 938.90

Not: WMB

MICROSEEPS

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd

Greenville, SC 28608

Order #: P0011194
Report Date: 12/12/00
Client Proj Nam Medley
Client Proj # 938.90

Sample Identification

Lab Sample #	Client Sample ID
P0011194-01	MW2-1
P0011194-02	MW2-2
P0011194-03	BW-108
P0011194-04	SW-1
P0011194-05	BW-1

Approved By: Rebecca J. Adams

QC - WMB 2-2-01: HT, methods, dil - ✓

220 William Pitt Way, Pittsburgh, PA 15238 • Phone (412) 826-5245, Fax (412) 826-3433

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-01

Sample Description	Matrix	Sampled Date/Time	Received
MW2-1	Water	29 Nov. 00 10:15	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
WetChem						
Water						
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe	hw	11/30/00
RiskAnalysis						
Water						
Ethane	400	5.0	ng/L	AM18	bw	12/5/00
Methane	5.4	0.015	ug/L		bw	12/5/00

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-02

Sample Description	Matrix	Sampled Date/Time	Received
MW2-2	Water	29 Nov. 00 12:00	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
WetChem						
Water						
Ferrous Iron	2.4	1.0	mg/L	SM3500Fe	hw	11/30/00
RiskAnalysis						
Water						
Ethane	11	5.0	ng/L	AM18	bw	12/5/00
Methane	8.0	0.015	ug/L		bw	12/5/00

Order #: P0011194

Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-03

Sample Description	Matrix	Sampled Date/Time	Received
BW-108	Water	29 Nov. 00 13:35	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
WetChem						
Water						
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe	hw	11/30/00
RiskAnalysis						
Water						
Ethane	< 5.0	5.0	ng/L	AM18	bw	12/5/00
Methane	2.2	0.015	ug/L		bw	12/5/00

Order #: P0011194
Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-04

Sample Description	Matrix	Sampled Date/Time	Received
SW-1	Water	29 Nov. 00 15:20	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
WetChem						
Water						
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe	hw	11/30/00
RiskAnalysis						
Water						
Ethane	< 5.0	5.0	ng/L	AM18	bw	12/5/00
Methane	3.5	0.015	ug/L		bw	12/5/00

Order #: P0011194

Report Date: 12/12/00
Client Proj Name: Medley
Client Proj #: 938.90

Client Name: RMT, Inc.
Contact: Joey Werner
Address: 100 Verdae Blvd
PO Box #16778
Greenville, SC 28608

Lab Sample #: P0011194-05

Sample Description	Matrix	Sampled Date/Time	Received
BW-1	Water	29 Nov. 00 16:35	30 Nov. 00

Analyte(s)	Result	PQL	Units	Method #	Analyst	Analysis Date
WetChem						
Water						
Ferrous Iron	< 1.0	1.0	mg/L	SM3500Fe	hw	11/30/00
RiskAnalysis						
Water						
Ethane	< 5.0	5.0	ng/L	AM18	bw	12/5/00
Methane	1.8	0.015	ug/L		bw	12/5/00

Copy: SWW, File

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1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

Project Name: MEDLEY FARM

Project Number: 938.90

RMT - GREENVILLE
ATTN: Mark Bailey
100 VERDAE BLVD (29607)

GREENVILLE SC 29606

Attached are the following for Batch Number: **904155**

✓ **Organic**
___ **Inorganic**
✓ **QC Data**
___ **Diskette**

Ship By: ___ First Class Mail ✓ FedEx
___ Priority Mail ___ Other: ___

Comments:

QC-LM3, 11-29-00: HT, temp, COC, dl, methods, TBLK-ok
LCM 3 QC-ok

Due to acetone blank spike and blank spike duplicate recoveries outside control limits, acetone for SS-01-110200/4' should be qualified "J" as estimated

If you have any questions please call your Client Manager: **Kevin Hinckley**

11/27/00

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- Analytical Report -

Project Name : MEDLEY FARM

Project Number : 938.90

Client : RMT - GREENVILLE

Report Date : 11/27/00

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
904155-001	TBLK 99306	11/2/00			
904155-002	SS-01-110200/4'	11/2/00			
904155-003	DU-01-110200	11/2/00			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Approval Signature

11/28/00
Date

CHAIN OF CUSTODY RECORD

№ 070157

RMT

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No.: 938.90

Project/Client: MEDLEY FARM

Project Manager/Contact Person: STEVE WEBB/MARK BAILEY

Filtered (Yes/No): N

Preserved (Code): E

Lab No. 90-1155	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	VOC'S (SEE ATTACHED LIST)	5 GM ENCORE VOC'S	25 GM ENCORE VOC'S	60 ml VOA'S WET/DRY WT					Comments:
-001	—	—	TBLK 99306	3	DIW	3								FOR ANALYSIS:
-002	11/2	10:40	SS-01-110200/4'	4	SOIL		2	1	1					SEE ATTACHED LISTS
-003	11/2		DU-01-110200	4	SOIL		2	1	1					

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

SPECIAL INSTRUCTIONS: FOR QUESTIONS CALL KEN GILLON IN RMT G'VILLE OFFICE.

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Neal Dunlap	11/2/00 1700	AIRBORNE #52506536-375	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Airborne	11/3/00 945	[illegible]	11/3/00 945
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 2°C ROI

Temp Blank: Y (N)

Receipt pH (Wet/Metals): NA

Custody Seal: (Present)/Absent (Intact)/Not Intact Seal #'s

F-268 (R10/

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PI SAMPLER/SUBMITTE

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Green Bay, WI 54302
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1-800-7-EN[illegible]

- Analytical Report -

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : SS-01-110200/4'
Lab Sample Number : 904155-002
Lab Project Number : 904155

Submitter : RMT - GREENVILLE
Report Date : 11/27/00
Collection Date : 11/2/00
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Solids, percent	80.0		%		11/6/00	SM 2540G M	SM 2540G M

All soil results are reported on a dry weight basis unless otherwise noted.

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DU-01-110200
Lab Sample Number : 904155-003
Lab Project Number : 904155

Submitter : RMT - GREENVILLE
Report Date : 11/27/00
Collection Date : 11/2/00
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Solids, percent	79.8		%		11/6/00	SM 2540G M	SM 2540G M

All soil results are reported on a dry weight basis unless otherwise noted.

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1-800-7-EN[illegible]M

Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : TBLK 99306
Lab Sample Number : 904155-001
Lab Project Number : 904155

Submitter : RMT - GREENVILLE
Report Date : 11/27/00
Collection Date : 11/2/00
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - WATER **Prep Method: SW846 5030**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
1,1,2-Trichloroethane	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
1,1-Dichloroethane	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
1,1-Dichloroethene	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
1,2-Dichloroethane	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
1,2-Dichloroethene, total	< 2.0	2.0	ug/L		11/14/00	SW846 8260B
Acetone	< 5.0	5.0	ug/L		11/14/00	SW846 8260B
Chloroform	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
Methylene chloride	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
Tetrachloroethene	< 1.0	1.0	ug/L		11/14/00	SW846 8260B
Trichloroethene	< 1.0	1.0	ug/L		11/14/00	SW846 8260B

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : SS-01-110200/4'
Lab Sample Number : 904155-002
Lab Project Number : 904155

Submitter : RMT - GREENVILLE
Report Date : 11/27/00
Collection Date : 11/2/00
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - SOIL — **Prep Method: SW846 5035**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
1,1,2-Trichloroethane	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
1,1-Dichloroethane	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
1,2-Dichloroethane	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
1,2-Dichloroethene, total	2.3	11	ug/kg	J	11/13/00	SW846 8260B
Acetone	21	11	ug/kg		11/13/00	SW846 8260B
Chloroform	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
Methylene chloride	< 5.7	5.7	ug/kg		11/13/00	SW846 8260B
Tetrachloroethene	41	5.7	ug/kg		11/13/00	SW846 8260B
Trichloroethene	4.8	5.7	ug/kg	J	11/13/00	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

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Project Name : MEDLEY FARM
Project Number : 938.90
Field ID : DU-01-110200
Lab Sample Number : 904155-003
Lab Project Number : 904155

Submitter : RMT - GREENVILLE
Report Date : 11/27/00
Collection Date : 11/2/00
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Volatile Organic Results

SPECIAL VOLATILE LIST - SOIL — **Prep Method: SW846 5035**

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
1,1,2-Trichloroethane	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
1,1-Dichloroethane	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
1,1-Dichloroethene	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
1,2-Dichloroethane	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
1,2-Dichloroethene, total	3.4	11	ug/kg	J	11/13/00	SW846 8260B
Acetone	< 11	11	ug/kg		11/13/00	SW846 8260B
Chloroform	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
Methylene chloride	< 5.5	5.5	ug/kg		11/13/00	SW846 8260B
Tetrachloroethene	67	5.5	ug/kg		11/13/00	SW846 8260B
Trichloroethene	6.5	5.5	ug/kg		11/13/00	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

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Organic Data Qualifier Sheet

B	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis.
DL	No surrogate recovery available due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Repeated surrogate failure (see Sample Narrative).
G	Sample exhibits hydrocarbon pattern resembling gasoline.
H(n)	Analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
L	Detects in trip blank.
M	Methanol leakage.
ND	Not Detected.
NR	Not Required.
P	The relative percent difference for detected concentrations between the two GC columns was greater than 40 % difference.
Q	The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
U#	Elevated LOD due to matrix interference.
V	Heavy hydrocarbon present.
W	Sample received with headspace.
X	See Sample Narrative
Z	See Sample Narrative
SUB	Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.

Appendix F
Historical Detections of Volatile Organic Compounds of Concern

Appendix F
Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
A-1	08/27/1996	0.005 Q	0.018	0.026	0.068
A-1	11/14/1997	0.0022	0.0021	0.011	0.041
A-1	11/19/1998	0.00075 J	0.00062 J	0.0085	0.037
A-1	10/26/1999	0.0014	0.0017	0.011	0.035
A-1	11/30/2000	0.00076 J	< 0.01	0.011 j	0.047 J
A-2	08/27/1996	0.006	0.022	0.12	0.22
A-2	11/14/1997	0.0052	0.024	0.091	0.16
A-2	11/19/1998	0.0034	0.0079	0.071	0.19
A-2	10/26/1999	0.0016	0.0055	0.12	0.12 D
A-2	11/30/2000	0.0011 J	0.0022	0.064 j	0.21 j
A-3	08/27/1996	0.005 Q	0.04	0.08	0.1
A-3	11/14/1997	0.0014	0.0085	0.015	0.029
A-3	11/19/1998	0.00089 J	0.0052	0.019	0.032
A-3	10/26/1999	0.00067 J	0.0035	0.028	0.036
A-3	11/30/2000	0.0012	0.0062	0.02 j	0.039 j
A-4	08/27/1996	0.002 Q	0.003 Q	0.064	0.069
A-4	11/14/1997	0.00069 J	0.00072 J	0.014	0.013
A-4	11/19/1998	0.00058 J	0.0012	0.021	0.022
A-4	10/26/1999	< 0.001	0.00064 J	0.0076	0.0054
A-4	11/30/2000	< 0.001	< 0.001	0.0061 j	0.0055 j
A-5	08/27/1996	0.0053	0.036	0.066	0.11
A-5	11/14/1997	0.0032	0.044	0.08	0.16
A-5	11/19/1998	0.0027	0.018	0.039	0.084
A-5	10/26/1999	0.0014	0.014	0.051	0.077
A-5	11/30/2000	0.0014	0.0075	0.026 j	0.055 j
A-6	08/27/1996	0.0007 Q	0.001 Q	0.0057	0.0057
A-6	11/14/1997	0.00062 J	0.0023	0.0047	0.0079
A-6	11/19/1998	< 0.001	0.0025	0.0035	0.0051
A-6	10/26/1999	< 0.01	0.0017	0.0039	0.0043
A-6	11/30/2000	< 0.01	0.0012	0.0037 j	0.0059 j
A-7	08/27/1996	0.01	0.039	0.11	0.15
A-7	11/14/1997	0.0036	0.023	0.097	0.15
A-7	11/19/1998	0.0019	0.018	0.058	0.11
A-7	10/26/1999	0.0011	0.014	0.075	0.098
A-7	11/30/2000	< 0.001	0.0059	0.04 j	0.053 j
B-1	08/27/1996	0.003 Q	0.019	0.022	0.044
B-1	11/14/1997	0.002	0.0076	0.034	0.066
B-1	11/20/1998	< 0.001	0.0043	0.0096	0.024
B-1	10/26/1999	0.0046	0.0073	0.025	0.048
B-1	11/30/2000	< 0.001	0.0024	0.025 j	0.036 j

Appendix F
Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
B-2	08/28/1996	0.44	0.2	0.088	0.47
B-2	11/14/1997	0.014	0.16	0.26 D	0.71 D
B-2	11/20/1998	0.0028	0.043	0.034	0.23
B-2	10/26/1999	0.00073 J	0.028	0.041	0.16
B-2	11/30/2000	< 0.001	0.021	0.047 j	0.19 j
B-3	08/28/1996	1.4	0.25	0.25	1.1
B-3	11/14/1997	0.0095 J	0.17	0.22	0.93
B-3	11/20/1998	0.0082	0.073	0.12	0.53
B-3	10/26/1999	0.012	0.058	0.22	0.67
B-3	11/30/2000	0.004 J	0.041	0.21 j	0.81 j
B-3 (DU-00401)	11/30/2000	0.0039 J	0.038	0.24 j	0.72 j
B-4	08/28/1996	0.033	0.19	0.17	0.38
B-4	11/14/1997	0.05	0.19 D	0.2	0.51 D
B-4	11/20/1998	0.026	0.14	0.18	0.48
B-4	10/26/1999	< 0.005	0.11	0.24	0.51
B-4	11/30/2000	0.003	0.052	0.073 j	0.2 j
BW-01	02/19/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	05/28/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	10/07/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	12/07/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	03/30/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	04/20/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	07/28/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	10/07/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	01/12/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	04/15/1994	0.01	< 0.01	< 0.01	< 0.01
BW-01	09/23/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	12/15/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-01	08/29/1995	< 0.001	< 0.001	< 0.002	< 0.001
BW-01	10/20/1995	< 0.001	< 0.001	< 0.002	< 0.001
BW-01	11/29/2000	< 0.001	< 0.001	< 0.001	< 0.001

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
BW-02	02/20/1992	0.520	0.300	0.02 J	0.630
BW-02(DU-02)	02/20/1992	0.5 E	0.3 E	0.018	0.52 E
BW-02(DU-02DL)	02/20/1992	0.55 D	0.3 D	0.02 DJ	0.66 D
BW-02	06/02/1992	0.650	0.400	0.026 J	0.820
BW-02	10/06/1992	0.93 E	0.46 E	0.030	1 E
BW-02DL	10/06/1992	0.95 D	0.43 D	0.028 DJ	1.1 D
BW-02	12/03/1992	1.200	0.520	0.031 J	1.4 E
BW-02DL	12/03/1992	1.3 DJ	0.56 D	0.032 DJ	1.5 D
BW-02	03/29/1993	0.35	0.31	0.019 J	0.42
BW-02	04/19/1993	0.35	0.31	0.019 J	0.42
BW-02	04/20/1993	0.330	0.300	0.024 J	0.440
BW-02	07/28/1993	0.38	0.26	0.021 J	0.47
BW-02	10/07/1993	0.420	0.240	0.02 J	0.490
BW-02	01/12/1994	1.1 E	0.38	0.028 J	1 E
BW-02DL	01/12/1994	1.2 D	0.42 D	0.029 DJ	1.1 D
BW-02	04/14/1994	1.9	0.66	0.045 J	1.7
BW-02	09/23/1994	1.3	0.56	0.041 J	1
BW-02	12/15/1994	1	0.46	0.082 Q	0.9
BW-02	03/14/1995	0.55	0.34	< 0.1	0.63
BW-02	06/07/1995	0.44	0.17	< 0.1	0.64
BW-02	05/07/1997	0.0067	0.0078	0.046	0.13
BW-02	08/28/1997	< 0.001	0.0094	0.041	0.14
BW-02	11/12/1997	0.029	0.0077	0.039	0.18
BW-02	04/02/1998	0.019	0.0079	0.052	0.21 D
BW-03	12/13/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-03	10/20/1995	< 0.001	< 0.001	< 0.002	< 0.001
BW-03	11/12/1997	< 0.001	0.00097 J	< 0.001	< 0.001
BW-03	11/18/1998	< 0.001	0.0011	< 0.001	< 0.001
BW-03	12/01/2000	< 0.001	0.0009 Jj	< 0.001	< 0.001
BW-04	02/20/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	05/28/1992	< 0.01	< 0.01	< 0.01	0.001 J
BW-04	12/03/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	03/30/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	04/20/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	07/28/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	10/07/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	01/14/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	04/14/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	09/23/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	12/13/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-04	10/20/1995	< 0.001	< 0.001	< 0.002	< 0.001

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
BW-103	10/16/1992	< 0.01	0.001 J	< 0.01	< 0.01
BW-104	10/16/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-105	02/18/1992	< 0.01	0.005 J	< 0.01	< 0.01
BW-105	06/01/1992	< 0.01	0.006 J	< 0.01	< 0.01
BW-105	10/06/1992	< 0.01	0.004 J	< 0.01	< 0.01
BW-105	12/03/1992	< 0.01	0.005 J	< 0.01	< 0.01
BW-105	03/30/1993	< 0.01	0.006 J	< 0.01	< 0.01
BW-105	04/21/1993	< 0.01	0.006 J	< 0.01	< 0.01
BW-105	07/28/1993	< 0.01	0.006 J	< 0.01	< 0.01
BW-105	10/07/1993	< 0.01	0.006 J	< 0.01	< 0.01
BW-105	01/12/1994	< 0.01	0.005 J	< 0.01	< 0.01
BW-105	04/14/1994	< 0.01	0.007 J	< 0.01	< 0.01
BW-105	09/23/1994	< 0.01	0.006 J	< 0.01	< 0.01
BW-105	12/16/1994	< 0.01	0.006 Q	< 0.01	< 0.01
BW-105	10/17/1995	< 0.001	0.0071	< 0.002	< 0.001
BW-105	08/29/1996	0.003 Q	0.012	0.001 Q	0.0009 Q
BW-105	11/12/1997	0.0028	0.0048	0.0014	0.0015
BW-105	11/18/1998	0.00085 J	0.0077	0.001	0.0011
BW-105	10/28/1999	0.00067 J	0.0063	0.0011	0.00091 J
BW-105	12/01/2000	0.00056 J	< 0.001	0.0009 Jj	0.0012 j
BW-106	02/19/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	06/01/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	09/23/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	12/03/1992	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	03/24/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	04/19/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	04/21/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	07/27/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	10/07/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	01/12/1994	< 0.01	0.001 J	< 0.01	< 0.01
BW-106	04/14/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	09/23/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	12/13/1994	< 0.01	< 0.01	< 0.01	< 0.01
BW-106	10/20/1995	< 0.001	< 0.001	< 0.002	< 0.001

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE		1,1-DICHLORO-ETHENE		TETRACHLORO-ETHENE		TRICHLORO-ETHENE	
BW-108	02/17/1992	0.015	J	0.190		0.400		0.68	E
BW-108DL	02/17/1992	0.017	DJ	0.19	D	0.48	D	0.81	D
BW-108	06/02/1992	0.014		0.079		0.47	E	0.78	E
BW-108 (DU-03)	06/02/1992	0.015	J	0.088		0.490		0.780	
BW-108DL	06/02/1992	0.019	DJ	0.11	D	0.56	D	0.92	D
BW-108	10/15/1992	0.016		0.110		0.56	E	0.83	E
BW-108DL	10/15/1992	0.017	DJ	0.1	D	0.54	D	0.81	D
BW-108	12/02/1992	0.015	J	0.074		0.440		0.71	E
BW-108DL	12/02/1992	0.016	DJ	0.082	D	0.44	D	0.72	D
BW-108	03/29/1993	0.018		0.140		0.48	E	0.76	E
BW-108DL	03/30/1993	0.018	DJ	0.12	D	0.49	D	0.77	D
BW-108	04/20/1993	0.018		0.082		0.54	E	0.87	E
BW-108DL	04/20/1993	0.02	DJ	0.11	D	0.62	D	1.1	D
BW-108	07/28/1993	0.021	J	0.13		0.56		0.87	
BW-108	10/07/1993	0.025	J	0.210		0.590		1.000	
BW-108	01/13/1994	0.019	J	0.068		0.33		0.64	
BW-108	04/14/1994	0.028	J	0.22		0.68		1.1	
BW-108	09/23/1994	0.024	J	0.16		0.72		1	
BW-108	12/15/1994	0.026	Q	0.12		0.71		1.1	
BW-108	03/10/1995	< 0.05		0.085		0.39		0.61	
BW-108	06/08/1995	< 0.05		< 0.05		0.17		0.41	
BW-108	08/29/1995	< 0.005		0.0096		0.083		0.12	
BW-108	10/24/1995	0.0074		0.013		0.06	D	0.11	D
BW-108	03/20/1996	0.0038		0.007		0.035		0.052	D
BW-108 (DUP)	03/20/1996	0.0047		0.0074		0.029		0.04	
BW-108	05/30/1996	0.01		0.016		0.08		0.16	
BW-108	08/29/1996	0.005	Q	0.0094		0.079		0.12	
BW-108	10/17/1996	0.0026		0.0048		0.039		0.059	
BW-108	05/08/1997	0.0022		0.004		0.023		0.039	
BW-108	08/28/1997	< 0.001		0.004		0.046		0.061	
BW-108 (DU-01)	08/28/1997	< 0.001		0.0039		0.048		0.062	
BW-108	11/11/1997	0.0016		0.0019		0.019		0.036	
BW-108	04/02/1998	0.0011		0.0024		0.01		0.017	
BW-108	06/30/1998	0.0014		0.0036		0.028		0.045	
BW-108	10/02/1998	0.00087	J	0.0024		0.029		0.046	
BW-108	11/18/1998	0.00078	J	0.0019		0.007		0.012	
BW-108	02/17/1999	0.00074	J	0.0026		0.013		0.018	
BW-108	05/14/1999	< 0.001		0.0011		0.01		0.014	
BW-108	08/10/1999	0.0009	J	0.0019		0.018		NA	
BW-108 (DU-99301)	08/10/1999	0.00072	J	0.0019		0.017		NA	
BW-108	10/28/1999	0.00069	J	0.0022		0.02		0.022	
BW-108 (DU-99402)	10/28/1999	0.00061	J	0.0024		0.019		0.001	
BW-108	03/02/2000	< 0.001		0.00067	J	0.0034		0.0048	
BW-108	06/28/2000	< 0.001		0.001		0.017		0.021	
BW-108	08/23/2000	< 0.001		0.0015		0.011		0.015	
BW-108	11/29/2000	< 0.001		0.00066	J	0.0042		0.006	

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
BW-109	09/23/1992	< 0.01	< 0.01	0.004 J	< 0.01
BW-109	12/14/1994	< 0.01	< 0.01	0.005 Q	0.001 Q
BW-109	03/14/1995	< 0.001	< 0.001	< 0.002	< 0.001
BW-109	06/08/1995	< 0.001	< 0.001	< 0.002	< 0.001
BW-109	10/17/1995	< 0.001	< 0.001	< 0.002	< 0.001
BW-110	10/15/1992	< 0.01	0.006 J	< 0.01	< 0.01
BW-110	12/16/1994	< 0.01	0.006 Q	< 0.01	0.0009 Q
BW-110	10/20/1995	< 0.001	0.006	< 0.002	0.0012
BW-110	08/29/1996	< 0.005	0.0054	< 0.005	0.001 Q
BW-110	11/11/1997	< 0.001	0.0019	< 0.001	0.0007 J
BW-110 (DU-01)	11/11/1997	< 0.001	0.002	< 0.001	0.00059 J
BW-110	11/18/1998	< 0.001	0.0014	< 0.001	< 0.001
BW-110	10/28/1999	< 0.001	0.0012	< 0.001	0.001
BW-110	12/01/2000	< 0.001	0.0011	0.0005 j	0.0016 j
BW-111	10/16/1992	< 0.01	0.007 J	< 0.01	0.002 J
BW-1111	05/11/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-1112	05/11/1993	< 0.01	< 0.01	< 0.01	0.0006 J
BW-1113	05/12/1993	< 0.01	< 0.01	< 0.01	< 0.01
BW-112	10/15/1992	0.170	1.3 E	0.038	0.21 E
BW-1121	05/12/1993	0.41 E	1.4 E	0.059	0.41 E
W-1121DL	05/12/1993	0.41 D	1.7 D	0.071 DJ	0.49 D
BW-1122	05/12/1993	0.330	1.700	0.053 J	0.360
BW-1123	05/12/1993	0.460	2.000	0.075 J	0.510
BW-112DL	10/15/1992	0.17 D	1.1 D	0.037 DJ	0.21 D
BW-113	09/23/1992	< 0.01	< 0.01	0.001 J	< 0.01
BW-201	09/23/1992	0.001 J	0.026	0.058	0.071
BW-201	12/02/1992	0.002 J	0.023	0.067	0.088
BW-201	07/28/1993	0.002 J	0.012	0.048	0.065
BW-201	10/07/1993	0.002 J	0.020	0.060	0.082
BW-201	01/13/1994	0.003 J	0.020	0.089	0.13
BW-201	04/13/1994	0.003 J	0.030	0.083	0.12
BW-201	09/22/1994	0.003 J	0.029	0.097	0.13
BW-201	12/15/1994	0.004 Q	0.03	0.1	0.15
BW-201	03/13/1995	< 0.005	0.024	0.096	0.12
BW-201	06/08/1995	< 0.005	0.0063	0.036	0.053
BW-201	08/30/1995	< 0.001	0.0021	0.015	0.018
BW-201	10/17/1995	0.0018	0.0049	0.029	0.04
BW-201	03/21/1996	< 0.001	< 0.001	0.023	0.03
BW-201	05/30/1996	0.0018	0.0036	0.027	0.032
BW-201	08/28/1996	< 0.005	0.004 Q	0.03	0.037

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
BW-201	10/15/1996	0.0015	0.003	0.018	0.028
BW-201	05/08/1997	0.002	0.0039	0.022	0.033
BW-201	08/29/1997	0.002	0.0036	0.017	0.032
BW-201	11/12/1997	0.0021	0.0032	0.016	0.031
BW-201	04/02/1998	0.0016	0.0023	0.011	0.02
BW-201	06/30/1998	0.0009 J	0.0013	0.0062	0.012
BW-201	10/01/1998	0.00057 J	0.00095 J	0.0052	0.0093
BW-201	11/19/1998	0.00069 J	0.0013	0.0066	0.01
BW-201	02/17/1999	0.00063 J	0.0012	0.006	0.0088
BW-201	05/13/1999	< 0.001	< 0.001	0.0053	0.0073
BW-201	08/10/1999	< 0.001	< 0.001	0.005	NA
BW-201	10/27/1999	< 0.001	< 0.001	0.0048	0.0066
BW-201	03/02/2000	< 0.001	< 0.001	0.0037	0.0051
BW-201	06/27/2000	< 0.001	< 0.001	0.0058	0.0078
BW-201	08/22/2000	< 0.001	0.00064 J	0.0038	0.0062
BW-201 (DU-00301)	08/22/2000	< 0.001	0.00065 J	0.004	0.0062
BW-201	12/01/2000	< 0.001	0.00051 J	0.0049 j	0.0067 j
BW-202	09/23/1992	0.027	0.006 J	0.130	0.062
BW-202	12/03/1992	0.024	0.004 J	0.120	0.046
BW-202	07/27/1993	0.026	0.004 J	0.11	0.047
BW-202	10/07/1993	0.025	0.011	0.140	0.130
BW-202	01/13/1994	0.002 J	< 0.01	0.023	0.007 J
BW-202	04/13/1994	0.020	0.006 J	0.16	0.061
BW-202DL	04/13/1994	0.023 DJ	0.005 DJ	0.17 D	0.068 D
BW-202	09/22/1994	0.012	0.004 J	0.13	0.049
BW-202	12/15/1994	0.01 Q	0.002 Q	0.23	0.085
BW-202	03/09/1995	< 0.01	< 0.01	0.23	0.096
BW-202	06/08/1995	< 0.01	< 0.01	0.17	0.081
BW-202	08/31/1995	< 0.01	< 0.01	0.053	0.025
BW-202	10/17/1995	< 0.01	< 0.01	0.033	0.023
BW-202	03/21/1996	< 0.001	< 0.001	< 0.002	0.0056
BW-202	05/30/1996	< 0.001	< 0.001	0.018	0.0078
BW-202	08/28/1996	0.0008 Q	0.0005 Q	0.016	0.0058
BW-202	10/15/1996	< 0.001	< 0.001	0.0074	0.0033
BW-202	05/08/1997	0.00053 J	< 0.001	0.0079	0.004
BW-202	08/29/1997	< 0.001	< 0.001	0.0061	0.0032
BW-202	11/12/1997	< 0.001	< 0.001	0.0074	0.0037
BW-202	03/31/1998	< 0.001	< 0.001	0.0071	0.0029
BW-202	06/30/1998	< 0.001	< 0.001	0.0051	0.0028
BW-202	10/02/1998	< 0.001	< 0.001	0.0048	0.0023
BW-202	11/19/1998	< 0.001	< 0.001	0.0052	0.0022

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
BW-202	02/17/1999	< 0.001	< 0.001	0.0052	0.0019
BW-202	05/14/1999	< 0.001	< 0.001	0.004	0.0012
BW-202	08/09/1999	< 0.001	< 0.001	0.0052	NA
BW-202	10/27/1999	< 0.001	< 0.001	0.0039	0.0013
BW-202	03/02/2000	< 0.001	< 0.001	0.0034	0.0048
BW-202	06/27/2000	< 0.001	< 0.001	0.0046	0.0013
BW-202	08/22/2000	< 0.001	< 0.001	0.004	0.0062
BW-202	12/01/2000	< 0.001	< 0.001	0.0037 j	0.001 j
MLW-1-1	12/16/1994	< 0.01	0.002 Q	< 0.01	< 0.01
MLW-1-1	03/10/1995	< 0.001	0.0071	< 0.002	< 0.001
MLW-1-1	06/13/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-1	08/31/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-1	10/31/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-1	03/20/1996	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-1	06/04/1996	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-1	09/03/1996	< 0.005	0.0007 Q	< 0.005	< 0.005
MLW-1-1	10/17/1996	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	05/09/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	08/28/1997	< 0.001	0.0009 J	< 0.001	< 0.001
MLW-1-1	11/13/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	03/31/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	07/02/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	10/01/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	11/20/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW1-1	02/18/1999	< 0.001	0.00073 J	< 0.001	< 0.001
MLW-1-1	08/10/1999	< 0.001	< 0.001	NA	< 0.001
MLW-1-1	10/27/1999	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	03/01/2000	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-1	12/01/2000	< 0.001	0.001	< 0.001	< 0.001
MLW-1-2	12/16/1994	< 0.01	0.0006 Q	< 0.01	< 0.01
MLW-1-2	03/10/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-2	06/13/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-2	08/31/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-2	10/31/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-2	03/20/1996	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-2	06/04/1996	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-2	09/03/1996	< 0.005	< 0.005	< 0.005	< 0.005
MLW-1-2	10/16/1996	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	05/09/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	08/28/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	11/13/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	03/31/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	11/20/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	10/27/1999	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-2	12/01/2000	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	03/14/1995	< 0.001	< 0.001	< 0.002	< 0.001

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
MLW-1-3	06/13/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-3	10/31/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-3	03/20/1996	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-3	06/04/1996	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-3	09/03/1996	< 0.005	< 0.005	< 0.005	< 0.005
MLW-1-3	10/16/1996	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	08/28/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	11/13/1997	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	03/31/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	11/20/1998	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	10/27/1999	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-3	12/01/2000	< 0.001	< 0.001	< 0.001	< 0.001
MLW-1-4	12/21/1994	< 0.01	< 0.01	< 0.01	< 0.01
MLW-1-4	03/10/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-1-4	06/13/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-3-1	03/17/1995	0.0012	0.002	< 0.002	0.0095
MLW-3-1	06/13/1995	0.0029	0.0025	< 0.002	0.0047
MLW-3-1	08/31/1995	0.0013	0.0018	< 0.002	0.0086
MLW-3-1	10/31/1995	0.0031	0.0042	0.0027	0.02
MLW-3-1	06/04/1996	0.0029	0.0034	< 0.002	0.0066
MLW-3-1	09/03/1996	0.004 Q Q	0.0055	0.002 Q	0.015
MLW-3-1	05/07/1997	0.0022	0.00098 J	0.0017	0.0062
MLW-3-1	08/28/1997	< 0.001	0.0029	0.0033	0.014
MLW-3-1	11/13/1997	< 0.001	< 0.001	< 0.001	0.0067
MLW-3-1	03/31/1998	0.0017	0.0023	0.0025	0.012
MLW-3-1	07/02/1998	< 0.001	0.0021	< 0.001	0.012
MLW-3-1	10/01/1998	0.00096 J	< 0.001	0.00073 J	0.0043
MLW-3-1	11/20/1998	0.0012	< 0.001	< 0.001	0.011
MLW-3-1	08/10/1999	0.00096 J	0.001	0.0014	NA
MLW-3-1	10/27/1999	< 0.05	< 0.05	< 0.05	< 0.05
MLW-3-1	06/30/2000	< 0.001	< 0.001	0.0025	0.0093
MLW-3-1	08/22/2000	< 0.01	< 0.01	< 0.01	0.011
MLW-3-1	12/01/2000	< 0.002	< 0.002	0.002	0.0072
MLW-3-2	03/17/1995	0.0095	0.039	0.037	0.12
MLW-3-2	06/13/1995	0.0037	0.0057	0.002	0.017
MLW-3-2	08/31/1995	0.0036	0.0059	< 0.002	0.013
MLW-3-2	10/31/1995	0.0049	< 0.001	< 0.002	0.014
MLW-3-2	03/19/1996	< 0.001	0.0012	< 0.002	0.0086
MLW-3-2	06/04/1996	0.0037	0.0043	< 0.002	0.0085

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
MLW-3-2	09/03/1996	< 0.005	0.003 Q	0.004 Q	0.011
MLW-3-2	10/16/1996	0.0015	0.0013	0.0028	0.0094
MLW-3-2	05/07/1997	< 0.001	0.001	0.0017	0.0047
MLW-3-2	08/28/1997	< 0.001	0.0025	0.0029	0.013
MLW-3-2	11/13/1997	0.0005 J	< 0.001	0.0012	0.0043
MLW-3-2	03/31/1998	0.0018	0.0022	0.0017	0.011
MLW-3-2	07/02/1998	0.0014	0.0021	0.0021	0.012
MLW-3-2	11/20/1998	0.0011	0.0017	0.0022	0.011
MLW-3-2	05/14/1999	< 0.001	0.001	0.0022	0.0084
MLW-3-2	08/10/1999	< 0.001	0.001	0.0015	NA
MLW-3-2	10/27/1999	0.00057 J	0.00078 J	0.0016	0.0073
MLW-3-2	06/30/2000	< 0.001	< 0.001	0.0023	0.0082
MLW-3-2	08/22/2000	< 0.001	0.00074 J	0.0023	0.009
MLW-3-2	12/04/2000	< 0.001	< 0.001	0.0028	0.0095
MLW-3-3	12/21/1994	0.005 Q	0.019	0.018	0.066
MLW-3-3	03/14/1995	0.0066	0.029	0.051	0.12
MLW-3-3	06/13/1995	0.0014	0.0032	< 0.002	0.0088
MLW-3-3	08/31/1995	0.0042	0.0067	< 0.002	0.016
MLW-3-3	10/31/1995	0.0044	0.0054	< 0.002	0.017
MLW-3-3	03/19/1996	< 0.001	< 0.001	< 0.002	0.0044
MLW-3-3	06/04/1996	0.0042	0.0059	< 0.002	0.013
MLW-3-3	09/03/1996	< 0.005	0.0066	0.002 Q	0.017
MLW-3-3	10/16/1996	0.0008 Q	0.0007 Q	0.0021	0.0051
MLW-3-3	05/07/1997	< 0.001	< 0.001	0.00082 J	0.0024
MLW-3-3	08/28/1997	< 0.001	< 0.001	0.0015	0.0041
MLW-3-3	11/13/1997	< 0.001	< 0.001	0.0012	0.004
MLW-3-3	03/31/1998	0.0014	0.0025	0.0023	0.015
MLW-3-3	07/02/1998	0.0013	0.0022	0.0021	0.013
MLW-3-3	10/01/1998	< 0.001	< 0.001	0.00078 J	0.0022
MLW-3-3	11/20/1998	0.00088 J	0.0014	0.0023	0.011
MLW-3-3	02/18/1999	0.00085 J	0.0017	0.0028	0.011
MLW-3-3	05/14/1999	< 0.001	0.0016	0.0029	0.012
MLW-3-3	08/10/1999	0.00085 J	0.0013	0.0028	NA
MLW-3-3	10/27/1999	0.00064 J	0.00087 J	0.0028	0.0095
MLW-3-3	03/01/2000	< 0.001	< 0.001	0.0026	0.0089
MLW-3-3	06/30/2000	< 0.001	< 0.001	0.0027	0.011
MLW-3-3	08/22/2000	< 0.001	< 0.001	0.0014	0.0047
MLW-3-3	12/04/2000	< 0.001	< 0.001	0.0029	0.0094
MLW-3-4	12/21/1994	< 0.01	< 0.01	0.003 Q	0.006 Q
MLW-3-4	03/14/1995	0.0016	0.0023	< 0.002	0.0046
MLW-3-4	06/13/1995	< 0.001	< 0.001	< 0.002	< 0.001
MLW-3-4	03/19/1996	< 0.001	< 0.001	< 0.002	< 0.001

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
MW-2-1	02/29/1992	< 0.012	< 0.012	< 0.012	< 0.012
MW-2-1	05/30/1996	0.0067	0.017	0.016	0.032
MW-2-1	08/28/1996	0.011	0.039	0.033	0.078
MW-2-1 (DU01)	08/28/1996	0.01	0.036	0.034	0.077
MW-2-1	10/17/1996	< 0.005	0.032	0.039	0.07
MW-2-1	05/08/1997	0.0077	0.036	0.027	0.056
MW-2-1	08/29/1997	0.0076	0.033	0.036	0.071
MW-2-1	11/11/1997	0.0064	0.026	0.031	0.059
MW-2-1	04/01/1998	0.0067	0.029	0.031	0.056
MW-2-1	07/01/1998	0.0058	0.028	0.029	0.06
MW-2-1 (DU-01)	07/01/1998	0.0056	0.029	0.029	0.059
MW-2-1	10/02/1998	0.0042	0.022	0.025	0.051
MW-2-1	11/18/1998	0.0045	0.023	0.023	0.047
MW-2-1	02/16/1999	0.0046	0.028	0.034	0.049
MW-2-1	05/13/1999	0.0045	0.027	0.035	0.049
MW-2-1	08/10/1999	0.0037	0.017	0.016	NA
MW-2-1	10/28/1999	0.00095 J	0.0039	0.032	0.044
MW-2-1	03/02/2000	0.0031	0.022	0.022	0.036
MW-2-1	06/28/2000	< 0.001	0.017	0.027	0.042
MW-2-1 (DU-00201	06/28/2000	0.0034	0.018	0.026	0.043
MW-2-1	08/23/2000	0.0035	0.021	0.015	0.031
MW-2-1	11/29/2000	0.0029	0.016	0.016	0.03
MW-2-2	05/30/1996	0.012	0.17	0.19	0.39
MW-2-2	08/28/1996	0.0066	0.062	0.12	0.19
MW-2-2	10/17/1996	< 0.001	0.018	0.022	0.04
MW-2-2 (DU-01)	10/17/1996	0.0018	0.016	0.023	0.04
MW-2-2	05/08/1997	0.0014	0.0094	0.0059	0.017
MW-2-2 (DU01)	05/08/1997	< 0.001	0.009	0.0064	0.015
MW-2-2	08/29/1997	0.0036	0.018	0.02	0.051
MW-2-2	11/11/1997	0.0081	0.04	0.055	0.13
MW-2-2	04/01/1998	0.0048	0.008	0.01	0.033
MW-2-2	07/01/1998	0.0046	0.011	0.013	0.047
MW-2-2	10/02/1998	0.0037	0.011	0.015	0.051
MW-2-2	11/18/1998	0.004 H(1)	0.016 H(1)	0.018 H(1)	0.053 H(1)
MW-2-2 (DU-98401	11/18/1998	0.004	0.018	0.021	0.061
MW-2-2	02/16/1999	0.0016	0.0082	0.011	0.024
MW-2-2	05/13/1999	0.0013	0.0053	0.0072	0.017
MW-2-2 (DU-99201	05/13/1999	0.0013	0.0053	0.0073	0.017
MW-2-2	08/10/1999	0.0041	0.02	0.029	NA
MW-2-2	10/28/1999	0.0023	0.014	0.027	0.044
MW-2-2 (DU-99401	10/28/1999	0.0022	0.013	0.026	0.043
MW-2-2	03/02/2000	0.0019	0.012	0.022	0.043
MW-2-2	06/28/2000	< 0.001	0.0072	0.022	0.057
MW-2-2	08/23/2000	0.0026	0.01	0.021	0.068
MW-2-2	11/29/2000	0.0067	0.007	0.022	0.075
MW-4-1	05/31/1996	0.007	0.029	0.031	0.094

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
MW-4-1 (DUP-01)	05/31/1996	< 0.001	0.0029	0.004	0.0058
MW-4-1	08/29/1996	0.004 Q	0.025	0.022	0.056
MW-4-1	10/17/1996	< 0.001	0.025	0.025	0.056
MW-4-1	05/09/1997	0.0031	0.021	0.024	0.065
MW-4-1	08/29/1997	0.0033	0.027	0.064	0.15
MW-4-1	11/11/1997	0.0029	0.022	0.06	0.13
MW-4-1	04/01/1998	0.0025	0.015	0.048	0.11
MW-4-1 (DU-01)	04/01/1998	0.003	0.018	0.056	0.11
MW-4-1	07/01/1998	0.0028	0.017	0.047	0.12
MW-4-1	10/02/1998	0.0017	0.0092	0.048	0.11
MW-4-1 (DU-98301)	10/02/1998	0.0017	0.01	0.047	0.1
MW-4-1	11/18/1998	0.0017	0.011	0.032	0.08
MW-4-1	02/17/1999	0.0018	0.013	0.059	0.12
MW-4-1	05/13/1999	0.0018	0.0099	0.046	0.093
MW-4-1	08/10/1999	0.0019	0.0091	0.044	NA
MW-4-1	10/28/1999	0.0016	0.0078	0.045	0.092
MW-4-1	03/02/2000	0.0011	0.0051	0.05	0.16
MW-4-1 (DU-00101)	03/02/2000	0.0093 J	0.0054	0.05	0.16
MW-4-1	06/28/2000	< 0.001	0.0067	0.064	0.14
MW-4-1	08/23/2000	0.0017	0.0085	0.064	0.15
MW-4-1	12/01/2000	0.0018 j	0.0057 j	0.075 j	0.16 j
MW-4-1 (DU-00402)	12/01/2000	0.001	0.0031	0.055	0.2
MW-4-2	05/31/1996	< 0.005	0.0054	< 0.01	0.0079
MW-4-2	08/29/1996	0.003 Q	0.022	0.035	0.096
MW-4-2	10/15/1996	0.0068	0.021	0.044	0.12
MW-4-2	05/09/1997	0.0031	0.017	0.018	0.061
MW-4-2	08/29/1997	0.0025	0.014	0.046	0.16
MW-4-2	11/11/1997	0.0039	0.011	0.04	0.12
MW-4-2	04/01/1998	0.0015	0.0098	0.03	0.096
MW-4-2	07/01/1998	0.0018	0.0097	0.032	0.12
MW-4-2	10/01/1998	0.0012	0.0048	0.034	0.13
MW-4-2	11/18/1998	0.00061 J	0.004	0.012	0.044
MW-4-2	02/17/1999	0.0011	0.007	0.05	0.16
MW-4-2	05/13/1999	0.001	0.0032	0.042	0.13
MW-4-2	08/09/1999	0.0014	0.0061	0.033	NA
MW-4-2	10/27/1999	0.002	0.0041	0.082	0.1 DHj
MW-4-2	03/02/2000	0.0011	0.0051	0.05	0.16
MW-4-2 (DU-00101)	03/02/2000	0.00093 J	0.0054	0.05	0.16
MW-4-2	06/27/2000	< 0.001	0.0035	0.037	0.13
MW-4-2	08/22/2000	0.001	0.0044	0.042	0.17
MW-4-2	11/28/2000	0.001	0.0031	0.055	0.2

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
PW-01	09/16/1992	< 0.01	< 0.01	< 0.01	< 0.01
RW-05	02/19/1992	< 0.01	< 0.01	0.003 J	0.005 J
RW-06	02/20/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	02/19/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	05/28/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	09/21/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	12/01/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	03/25/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	04/19/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	04/20/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	07/27/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	10/07/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	01/11/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	04/15/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	09/23/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	12/15/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-01	08/29/1995	< 0.001	< 0.001	< 0.002	< 0.001
SW-01	10/20/1995	< 0.001	< 0.001	< 0.002	< 0.001
SW-01	11/29/2000	< 0.001	< 0.001	< 0.001	< 0.001
SW-03	02/18/1992	< 0.01	0.0008 J	0.3 E	0.180
W-03DL	02/18/1992	< 0.025	< 0.025	0.3 D	0.18 D
SW-03	05/27/1992	< 0.01	< 0.01	0.38 E	0.26 E
SW-03DL	05/27/1992	< 0.025	< 0.025	0.44 D	0.31 D
SW-03	09/22/1992	< 0.01	0.002 J	0.43 E	0.29 E
SW-03DL	09/22/1992	< 0.04	< 0.04	0.39 D	0.31 D
SW-03	12/03/1992	< 0.025	0.002 J	0.490	0.350
SW-03	03/24/1993	< 0.025	0.004 Jj	0.57 EJj	0.4 Jj
SW-03DL	03/24/1993	< 0.05	< 0.05	0.6 DJj	0.39 DJj
SW-03	04/19/1993	< 0.05	< 0.05	0.65	0.49
SW-03	04/21/1993	< 0.025	0.004 J	0.68 E	0.500
SW-03DL	04/21/1993	< 0.05	< 0.05	0.68 D	0.52 D
SW-03	07/27/1993	< 0.05	0.005 J	0.56	0.35
SW-03	10/07/1993	< 0.05	< 0.05	0.580	0.360
SW-03	01/11/1994	< 0.05	< 0.05	0.66	0.47
SW-03	04/11/1994	< 0.05	< 0.05	0.61	0.45
SW-03	09/22/1994	< 0.05	0.005 J	0.68	0.5
SW-03	12/14/1994	< 0.05	< 0.05	0.76	0.62
SW-03	03/09/1995	< 0.05	< 0.05	0.62	0.55
SW-03	06/07/1995	< 0.05	< 0.05	0.65	0.48
SW-04	02/18/1992	< 0.25	2.300	< 0.25	0.011 J
SW-04	05/27/1992	< 0.12	1.500	< 0.12	0.008 J
SW-04	09/22/1992	< 0.01	1.8 E	0.003 J	0.014
SW-04DL	09/22/1992	< 0.2	2.1 D	< 0.2	< 0.2

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Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
SW-04	12/02/1992	< 0.25	2.800	< 0.25	0.01 J
SW-04	03/24/1993	< 0.25	3.6 Jj	< 0.25	0.014 Jj
SW-04	04/19/1993	< 0.25	3.4	< 0.25	< 0.25
SW-04	04/21/1993	< 0.12	3.8 E	0.014 J	0.02 J
SW-04DL	04/21/1993	< 0.25	3.7 D	< 0.25	< 0.25
SW-04	07/27/1993	< 0.17	1.7	< 0.17	0.017 J
SW-04	10/07/1993	< 0.17	1.100	< 0.17	0.038 J
SW-04	01/11/1994	< 0.12	0.98	< 0.12	0.018 J
SW-04	04/12/1994	< 0.12	1.2	< 0.12	0.012 J
SW-04	09/22/1994	< 0.1	1.8	< 0.1	0.009 J
SW-04	12/14/1994	< 0.1	2 D	< 0.1	0.012 Q
SW-04	03/09/1995	< 0.1	2.3	< 0.2	< 0.1
SW-04	06/08/1995	< 0.1	3.2	< 0.2	< 0.1
SW-101	02/20/1992	< 0.01	0.005 J	< 0.01	0.0005 J
SW-101	05/27/1992	< 0.01	0.005 J	< 0.01	< 0.01
SW-101	09/21/1992	< 0.01	0.007 J	< 0.01	< 0.01
SW-101	12/03/1992	< 0.01	0.005 J	0.0003 J	0.0005 J
SW-101	03/25/1993	< 0.01	0.006 Jj	0.001 Jj	0.0008 Jj
SW-101	04/19/1993	< 0.01	0.004 J	< 0.01	< 0.01
SW-101	04/20/1993	< 0.01	0.005 J	< 0.01	< 0.01
SW-101	07/27/1993	< 0.01	0.005 J	< 0.01	< 0.01
SW-101	10/07/1993	< 0.01	0.005 J	< 0.01	0.0006 J
SW-101	01/12/1994	< 0.01	0.004 J	< 0.01	< 0.01
SW-101	04/11/1994	< 0.01	0.006 J	< 0.01	0.0006 J
SW-101	09/22/1994	< 0.01	0.005 J	< 0.01	< 0.01
SW-101	12/13/1994	< 0.01	0.005 Q	< 0.01	0.0006 Q
SW-101	10/17/1995	< 0.001	0.0051	< 0.002	< 0.001
SW-101	08/28/1996	< 0.005	0.005 Q	0.0003 Q	0.0009 Q
SW-101	11/12/1997	< 0.001	0.0032	< 0.001	0.00072 J
SW-101	11/19/1998	< 0.001	0.0012	< 0.001	0.0006 J
SW-101	10/27/1999	< 0.001	0.00097 J	< 0.001	< 0.001
SW-101	11/28/2000	< 0.001	< 0.001	< 0.001	0.0008 J
SW-102	09/21/1992	< 0.01	0.008 J	< 0.01	< 0.01
SW-102	12/13/1994	< 0.01	0.006 Q	< 0.01	0.0006 Q
SW-102	10/17/1995	< 0.001	0.0061	< 0.002	< 0.001
SW-102	08/28/1996	< 0.005	0.005 Q	0.0004 Q	0.0008 Q
SW-102	11/12/1997	< 0.001	0.0024	< 0.001	< 0.001
SW-102	11/19/1998	< 0.001	0.0018	< 0.001	< 0.001
SW-102	10/27/1999	< 0.001	0.0011	< 0.001	< 0.001
SW-102	11/28/2000	< 0.001	0.00076 J	< 0.001	< 0.001
SW-103	09/21/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-103	12/14/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-104	09/21/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-104	12/14/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-104	10/17/1995	< 0.001	< 0.001	< 0.002	< 0.001
SW-106	02/19/1992	< 0.01	< 0.01	< 0.01	< 0.01

Appendix F
Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
SW-106	06/01/1992	< 0.01	0.002 J	< 0.01	0.001 J
SW-106	09/21/1992	< 0.01	0.002 J	< 0.01	< 0.01
SW-106	12/01/1992	< 0.01	0.002 J	< 0.01	0.0002 J
SW-106	03/24/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-106	04/19/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-106	04/21/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-106	07/27/1993	< 0.01	0.001 J	< 0.01	< 0.01
SW-106	10/07/1993	< 0.01	< 0.01	< 0.01	0.0007 J
SW-106	01/12/1994	< 0.01	0.001 J	< 0.01	< 0.01
SW-106	04/12/1994	< 0.01	0.002 J	< 0.01	0.0004 J
SW-106	09/23/1994	< 0.01	0.003 J	< 0.01	0.0006 J
SW-106	12/13/1994	< 0.01	0.002 Q	< 0.01	0.0004 Q
SW-106	10/20/1995	< 0.001	< 0.001	< 0.002	< 0.001
SW-108	02/17/1992	0.002 J	0.016	0.038	0.057
SW-108	06/02/1992	0.002 J	0.021	0.048	0.077
SW-108	09/22/1992	0.002 J	0.026	0.053	0.081
SW-108	12/03/1992	0.002 J	0.020	0.039	0.063
SW-108	03/24/1993	0.001 Jj	0.023 Jj	0.034 Jj	0.047 Jj
SW-108	04/19/1993	0.002 J	0.036	0.046	0.099
SW-108	04/20/1993	0.002 J	0.042	0.065	0.110
W-108	07/28/1993	0.004 J	0.055	0.11	0.16
SW-108	10/06/1993	0.004 J	0.026	0.072	0.120
SW-108	01/13/1994	0.003 J	0.021	0.066	0.11
SW-108	04/11/1994	0.003 J	0.014	0.049	0.083
SW-108	09/22/1994	0.002 J	0.014	0.038	0.06
SW-108	12/15/1994	0.002 Q	0.021	0.055	0.084
SW-108	03/10/1995	< 0.005	0.012	0.062	0.058
SW-109	09/22/1992	< 0.01	< 0.01	0.002 J	< 0.01
SW-109	12/14/1994	< 0.01	< 0.01	0.002 Q	< 0.01
SW-113	09/23/1992	0.040	< 0.01	0.037	< 0.01
SW-201	09/23/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	12/02/1992	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	07/28/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	10/06/1993	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	01/13/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	04/11/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	09/22/1994	< 0.01	< 0.01	< 0.01	< 0.01
SW-201	12/15/1994	< 0.01	< 0.01	< 0.01	< 0.01

Appendix F
Table F-1
Historical Detections of VOCs of Concern[1]

STATION	SAMPLE DATE	1,2-DICHLORO-ETHANE	1,1-DICHLORO-ETHENE	TETRACHLORO-ETHENE	TRICHLORO-ETHENE
SW-202	09/23/1992	0.002 J	< 0.01	0.016	0.004 J
SW-202	12/01/1992	0.002 J	< 0.01	0.026	0.008 J
SW-202	07/27/1993	< 0.01	< 0.01	0.007 J	0.002 J
SW-202	10/06/1993	0.001 J	< 0.01	0.010	0.003 J
SW-202	01/13/1994	0.028	0.005 J	0.14	0.064
SW-202	04/11/1994	< 0.01	< 0.01	0.056	0.018
SW-202	09/22/1994	< 0.01	< 0.01	0.049	0.015
SW-202	12/15/1994	0.0004 Q	< 0.01	0.052	0.016
SW-202	03/09/1995	< 0.005	< 0.005	0.03	0.011
SW-202	06/07/1995	< 0.001	< 0.001	0.015	0.0034
SW-202	10/17/1995	< 0.001	< 0.001	0.0029	0.0011
SW-202	05/30/1996	< 0.001	< 0.001	0.0021	< 0.001
SW-202	05/07/1997	< 0.001	< 0.001	0.00064 J	< 0.001
SW-202	08/27/1997	< 0.001	< 0.001	0.00081 J	< 0.001
SW-202	11/12/1997	< 0.001	< 0.001	0.0011	< 0.001
SW-202	03/31/1998	< 0.001	< 0.001	0.0019	0.00049 J
SW 202	03/21/1996	< 0.001	< 0.001	< 0.002	< 0.001
WM-01	09/16/1992	< 0.01	< 0.01	< 0.01	< 0.01
WM-02	09/16/1992	< 0.012	< 0.012	< 0.012	< 0.012
WM-03	09/16/1992	< 0.011	< 0.011	< 0.011	< 0.011
WM-04	09/16/1992	< 0.011	< 0.011	< 0.011	< 0.011

- Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

D, DL - Results from diluted sample.

E - Concentration exceeds instrument calibration range.

H (n) - Analysis performed "n" days past holding time.

j - Concentration considered an estimate based on data validation.

J - Estimated concentration.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

< - Concentration less than the Quantitation Limit.

Ta F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-1 08/27/1996	A-1 11/14/1997	A-1 11/19/1998	A-1 10/26/1999	A-1 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.012	0.0037	0.0031	0.003	0.004
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	<0.005	0.0015	<0.001	0.00062 J	<0.001
1,2-Dichloroethane	0.005	0.005 Q	0.0022	0.00075 J	0.0014	0.00076 J
1,1-Dichloroethene	0.007	0.018	0.0021	0.00062 J	0.0017	<0.001
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.013	0.0083	0.0088	0.023	0.0049
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.026	0.011	0.0085	0.011	0.011 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.001 Q	<0.001	<0.001	<0.001	0.00054 J
Trichloroethene	0.005	0.068	0.041	0.037	0.035	0.047 j
Vinyl chloride	--			<0.002	0.0052	NA
Xylenes, total	--			<0.002	<0.003	NA

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
[2] Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).
J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
u - Laboratory reported detection not validated during data validation process.
< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.
Shaded values are greater than or equal to PSVP standard.

Table 3-2
Historical Summary of Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-2 08/27/1996	A-2 11/14/1997	A-2 11/19/1998	A-2 10/26/1999	A-2 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.01
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.002
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.01
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.048	0.025	0.023	0.039	0.021
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.004
1,1-Dichloroethane	0.35	<0.005	0.00054 J	<0.001	<0.001	<0.002
1,2-Dichloroethane	0.005	0.006	0.0052	0.0034	0.0016	0.0011 J
1,1-Dichloroethene	0.007	0.022	0.024	0.0079	0.0055	0.0022
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.011	0.0025	0.0084	0.0043	0.0034
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.002
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.002
Tetrachloroethene	0.005	0.12	0.091	0.071	0.12	0.064 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	0.0012	<0.002
1,1,2-Trichloroethane	0.005	0.004 Q	0.0019	0.0022	<0.001	0.0035 j
Trichloroethene	0.005	0.22	0.16	0.19	0.12 D	0.21 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

[2] Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-3 08/27/1996	A-3 11/14/1997	A-3 11/19/1998	A-3 10/26/1999	A-3 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.0036 Ju	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.014	0.0025	0.006	0.0081	0.0044
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	<0.005	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005 Q	0.0014	0.00089 J	0.00067 J	0.0012
1,1-Dichloroethene	0.007	0.04	0.0085	0.0052	0.0035	0.0062
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.002 Q	0.0013	0.0012	0.00083 J	0.0026
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.08	0.015	0.019	0.028	0.02 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	0.00069 J	<0.001
1,1,2-Trichloroethane	0.005	<0.005	<0.001	0.0005 J	<0.001	<0.001
Trichloroethene	0.005	0.1	0.029	0.032	0.036	0.039 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).
J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
u - Laboratory reported detection not validated during data validation process.
< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.
Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-4 08/27/1996	A-4 11/14/1997	A-4 11/19/1998	A-4 10/26/1999	A-4 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	0.002 Q	0.00051 J	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.002 Q	0.00069 J	0.00058 J	<0.001	<0.001
1,1-Dichloroethene	0.007	0.003 Q	0.00072 J	0.0012	0.00064 J	<0.001
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.007	0.0019	0.0023	0.00069 J	0.00056 J
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.064	0.014	0.021	0.0076	0.0061 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.069	0.013	0.022	0.0054	0.0055 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Shaded values are greater than or equal to PSVP standard.

Tal F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-5 08/27/1996	A-5 11/14/1997	A-5 11/19/1998	A-5 10/26/1999	A-5 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.0065	0.016	0.0062	0.0056	0.0037
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	0.001 Q	0.0011	0.001	<0.001	0.00074 J
1,2-Dichloroethane	0.005	0.0053	0.0032	0.0027	0.0014	0.0014
1,1-Dichloroethene	0.007	0.036	0.044	0.018	0.014	0.0075
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.0065	0.0055	0.0047	0.0027	0.0036
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.066	0.08	0.039	0.051	0.026 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	0.012	<0.001	<0.001	0.0029	<0.001
1,1,2-Trichloroethane	0.005	<0.005	0.00074 J	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.11	0.16	0.084	0.077	0.055 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).
J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
u - Laboratory reported detection not validated during data validation process.
< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.
Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-6 08/27/1996	A-6 11/14/1997	A-6 11/19/1998	A-6 10/26/1999	A-6 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.0003 Q	<0.001	<0.001	<0.001	0.00046 J
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	0.0004 Q	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.0007 Q	0.00062 J	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.001 Q	0.0023	0.0025	0.0017	0.0012
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.0076	0.00076 J	0.00052 J	<0.001	<0.001
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.0057	0.0047	0.0035	0.0039	0.0037 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.0057	0.0079	0.0051	0.0043	0.0059 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Shaded values are greater than or equal to PSVP standard.

Table 5-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		A-7 08/27/1996	A-7 11/14/1997	A-7 11/19/1998	A-7 10/26/1999	A-7 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.008	0.0061	0.0056	0.005	0.0022
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	0.002 Q	0.0017	0.0011	0.00069 J	<0.001
1,2-Dichloroethane	0.005	0.01	0.0036	0.0019	0.0011	<0.001
1,1-Dichloroethene	0.007	0.039	0.023	0.018	0.014	0.0059
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.0088	0.011	0.0046	0.0036	0.0024
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.11	0.097	0.058	0.075	0.04 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	0.0027	<0.001
1,1,2-Trichloroethane	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.15	0.15	0.11	0.098	0.053 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		B-1 08/27/1996	B-1 11/14/1997	B-1 11/20/1998	B-1 10/26/1999	B-1 11/30/2000
Volatile Organics						
Acetone	0.35	<0.01	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	2.0			<0.001	<0.001	NA
2-Butanone	--	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	--			<0.001	<0.001	NA
Chloroform	0.1	0.0063	0.013	0.0041	0.0075	0.0096
Chloromethane	0.063	<0.005	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane	0.35	<0.005	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.003 Q	0.002	<0.001	0.0046	<0.001
1,1-Dichloroethene	0.007	0.019	0.0076	0.0043	0.0073	0.0024
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	<0.005	<0.001	<0.001	0.0015	<0.001
trans-1,2-Dichloroethene	0.1	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	--			<0.001	<0.001	NA
4-Methyl-2-pentanone	--			<0.005	<0.005	NA
Methylene chloride	0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.022	0.034	0.0096	0.025	0.025 j
Toluene	1.0			<0.001	<0.001	NA
1,1,1-Trichloroethane	0.2	<0.005	<0.001	<0.001	0.0026	<0.001
1,1,2-Trichloroethane	0.005	<0.005	0.00073 J	<0.001	<0.001	0.0011 j
Trichloroethene	0.005	0.044	0.066	0.024	0.048	0.036 j
Vinyl chloride	--			<0.002	<0.002	NA
Xylenes, total	--			<0.002	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

D - Results from diluted sample.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		B-2 08/28/1996	B-2 11/14/1997	B-2 11/20/1998	B-2 10/26/1999	B-2 11/30/2000
Volatile Organics						
Acetone	0.35	<0.02 Qu	<0.0064 u	<0.01	<0.005	<0.005
Benzene	0.005	<0.025	<0.001	<0.002	<0.001	<0.001
Bromodichloromethane	2.0			<0.002	<0.001	NA
2-Butanone	--	0.06	<0.005	<0.01	<0.005	<0.005
Carbon disulfide	--			<0.002	<0.001	NA
Chloroform	0.1	0.038	0.044	0.01	0.0087	0.0089
Chloromethane	0.063	<0.025	<0.002	<0.004	<0.002	<0.002
1,1-Dichloroethane	0.35	0.059	0.0012	<0.002	<0.001	<0.001
1,2-Dichloroethane	0.005	0.44	0.014	0.0028	0.00073 J	<0.001
1,1-Dichloroethene	0.007	0.2	0.16	0.043	0.028	0.021
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.006 Q	0.0043	<0.002	0.00078 J	0.00071 J
trans-1,2-Dichloroethene	0.1	0.009 Q	<0.001	<0.002	<0.001	<0.001
Ethylbenzene	--			<0.002	<0.001	NA
4-Methyl-2-pentanone	--			<0.01	<0.005	NA
Methylene chloride	0.005	0.002 Q	<0.001	<0.002	<0.001	<0.001
Tetrachloroethene	0.005	0.088	0.26 D	0.034	0.041	0.047 j
Toluene	1.0			<0.002	<0.001	NA
1,1,1-Trichloroethane	0.2	0.067	0.042	<0.002	0.0064	<0.001
1,1,2-Trichloroethane	0.005	0.002 Q	0.0021	<0.002	<0.001	<0.001
Trichloroethene	0.005	0.47	0.71 D	0.23	0.16	0.19 j
Vinyl chloride	--			<0.004	<0.002	NA
Xylenes, total	--			<0.004	<0.003	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

D - Results from diluted sample.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

u - Laboratory reported detection not validated during data validation process.

< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE					
		B-3 08/28/1996	B-3 11/14/1997	B-3 11/20/1998	B-3 10/26/1999	B-3 11/30/2000	(DU-00401) B-3 11/30/2000
Volatile Organics							
Acetone	0.35	<0.01 Qu	<0.05	<0.025	<0.025	<0.025	<0.025
Benzene	0.005	<0.05	<0.01	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	2.0			<0.005	<0.005	NA	NA
2-Butanone	--	<0.05	<0.05	<0.025	<0.025	<0.025	<0.025
Carbon disulfide	--			<0.005	<0.005	NA	NA
Chloroform	0.1	0.1	0.096	0.069	0.065	0.04	0.038
Chloromethane	0.063	<0.05	<0.02	<0.01	<0.01	<0.004	<0:01
1,1-Dichloroethane	0.35	0.005 Q	<0.01	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	1.4	0.0095 J	0.0082	0.012	0.004 J	0.0039 J
1,1-Dichloroethene	0.007	0.25	0.17	0.073	0.058	0.041	0.038
1,2-Dichloroethene, total	0.07					NA	NA
cis-1,2-Dichloroethene	0.07	0.02 Q	0.0075 J	0.0065	0.0066	0.004 J	0.0038 J
trans-1,2-Dichloroethene	0.1	0.003 Q	<0.01	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	--			<0.005	<0.005	NA	NA
4-Methyl-2-pentanone	--			<0.025	<0.025	NA	NA
Methylene chloride	0.005	0.003 Q	<0.01	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	0.005	0.25	0.22	0.12	0.22	0.21 j	0.24 j
Toluene	1.0			<0.005	<0.005	NA	NA
1,1,1-Trichloroethane	0.2	0.11	<0.01	<0.005	0.019	<0.005	<0.005
1,1,2-Trichloroethane	0.005	0.004 Q	<0.01	<0.005	<0.005	<0.005	<0.005
Trichloroethene	0.005	1.1	0.93	0.53	0.67	0.81 j	0.72 j
Vinyl chloride	--			<0.01	<0.01	NA	NA
Xylenes, total	--			<0.01	<0.015	NA	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).
D - Results from diluted sample.
J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.
u - Laboratory reported detection not validated during data validation process.
< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.
Shaded values are greater than or equal to PSVP standard.

Table F-2
Historical Summary of
Recovery Well Analytical Results

PARAMETER[1]	PSVP[2] STANDARD	LOCATION/SAMPLE DATE				
		B-4 08/28/1996	B-4 11/14/1997	B-4 11/20/1998	B-4 10/26/1999	B-4 11/30/2000
Volatile Organics						
Acetone	0.35	<0.007 Qu		<0.025	<0.025	<0.01
Benzene	0.005	<0.01	<0.001	<0.005	<0.005	<0.002
Bromodichloromethane	2.0		<0.001	<0.005	<0.005	NA
2-Butanone	--	0.007 Q		<0.025	<0.025	<0.01
Carbon disulfide	--			<0.005	<0.005	NA
Chloroform	0.1	0.037	0.069	0.079	0.088	0.027
Chloromethane	0.063	<0.01	<0.002	<0.01	<0.01	<0.004
1,1-Dichloroethane	0.35	0.002 Q	0.0022	<0.005	<0.005	<0.002
1,2-Dichloroethane	0.005	0.033	0.05	0.026	<0.005	0.003
1,1-Dichloroethene	0.007	0.19	0.19 D	0.14	0.11	0.052
1,2-Dichloroethene, total	0.07					NA
cis-1,2-Dichloroethene	0.07	0.014		0.018	0.014	0.0096
trans-1,2-Dichloroethene	0.1	0.001 Q	<0.001	<0.005	<0.005	<0.002
Ethylbenzene	--		<0.001	<0.005	<0.005	NA
4-Methyl-2-pentanone	--			<0.025	<0.025	NA
Methylene chloride	0.005	0.002 Q	<0.001	<0.005	<0.005	<0.002
Tetrachloroethene	0.005	0.17	0.2	0.18	0.24	0.073 j
Toluene	1.0		<0.001	<0.005	<0.005	NA
1,1,1-Trichloroethane	0.2	0.11	0.11	<0.005	0.046	<0.002
1,1,2-Trichloroethane	0.005	0.005 Q	0.0044	0.0028 J	<0.005	0.0014 Jj
Trichloroethene	0.005	0.38	0.51 D	0.48	0.51	0.2 j
Vinyl chloride	--		<0.002	<0.01	<0.01	NA
Xylenes, total	--			<0.01	<0.015	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

(2) Medley Farm Performance Standard Verification Plan Ground Water Remediation Target Levels (mg/L).

D - Results from diluted sample.

J - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

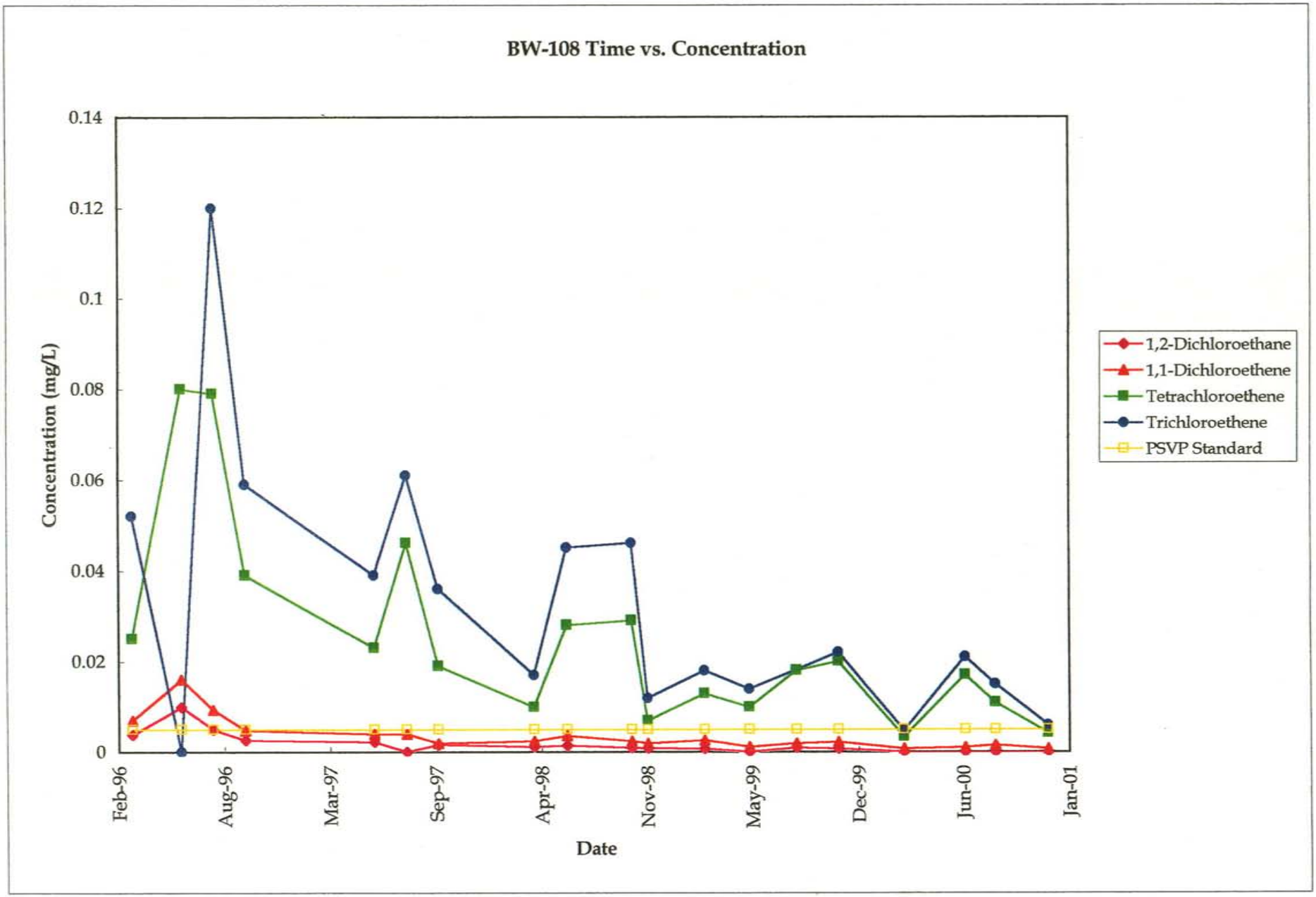
Q - Qualitative mass spectral evidence of analyte present; concentration is less than reporting limit.

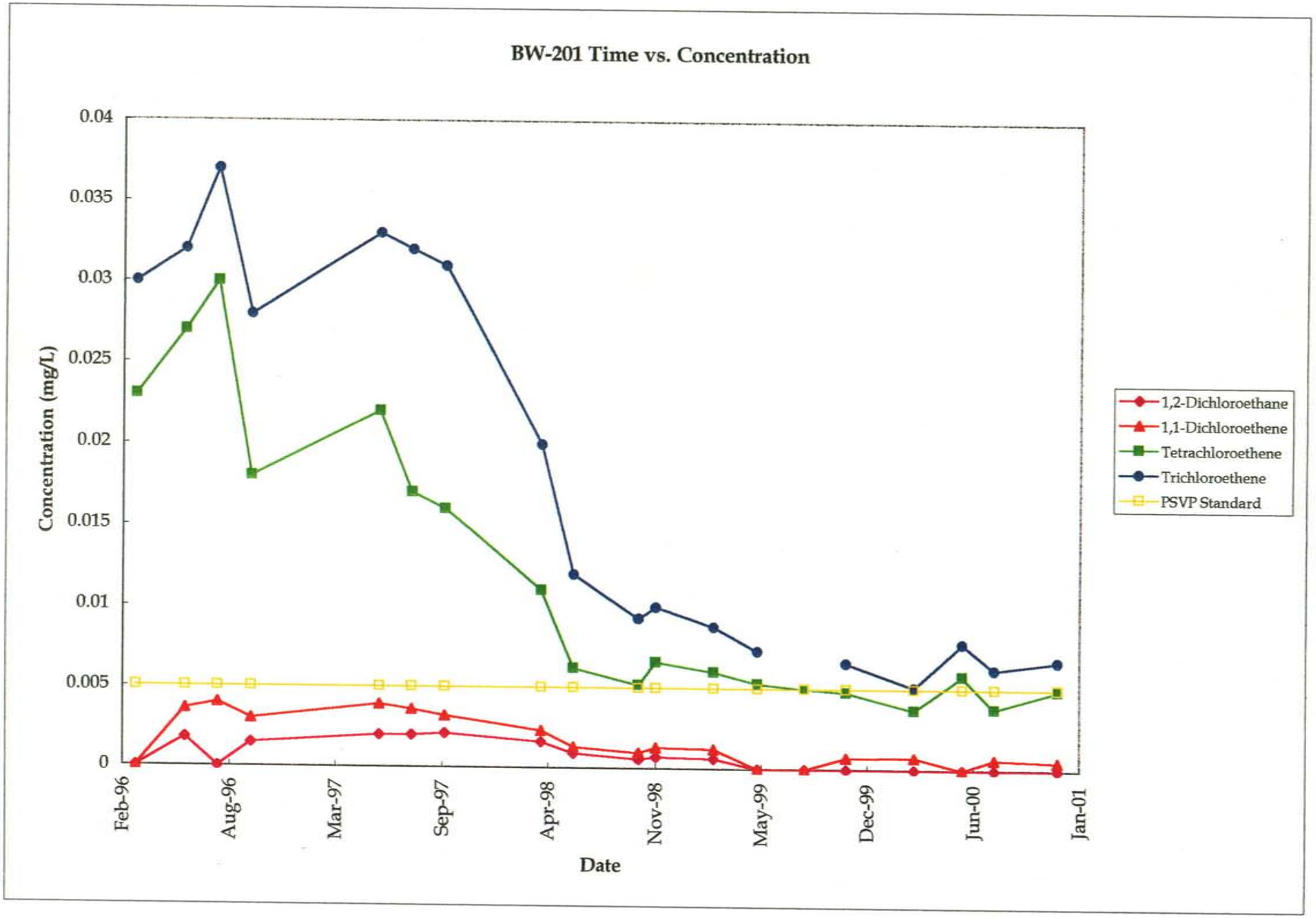
u - Laboratory reported detection not validated during data validation process.

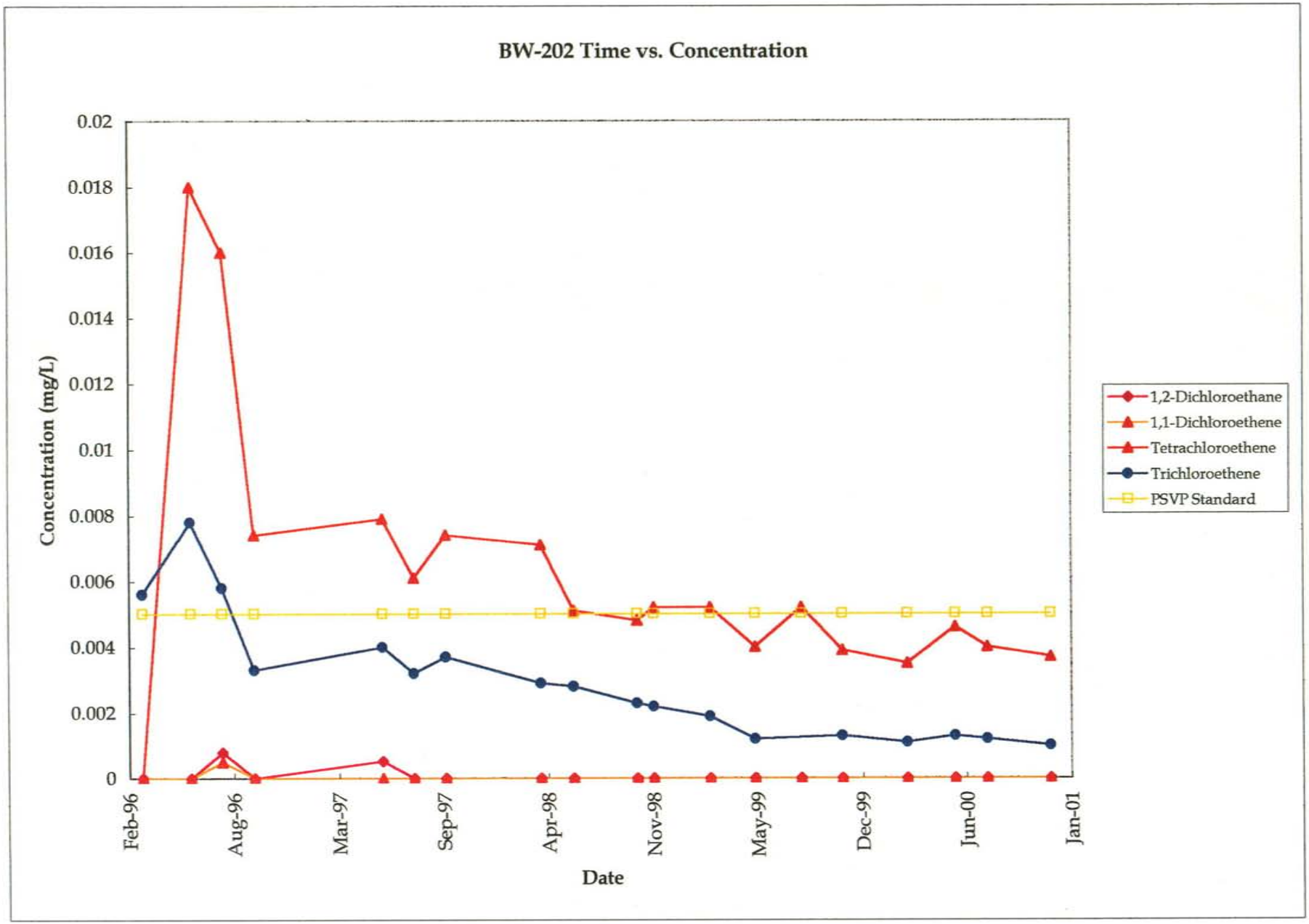
< - Concentration less than the Quantitation Limit or not validated if accompanied by "u" qualifier.

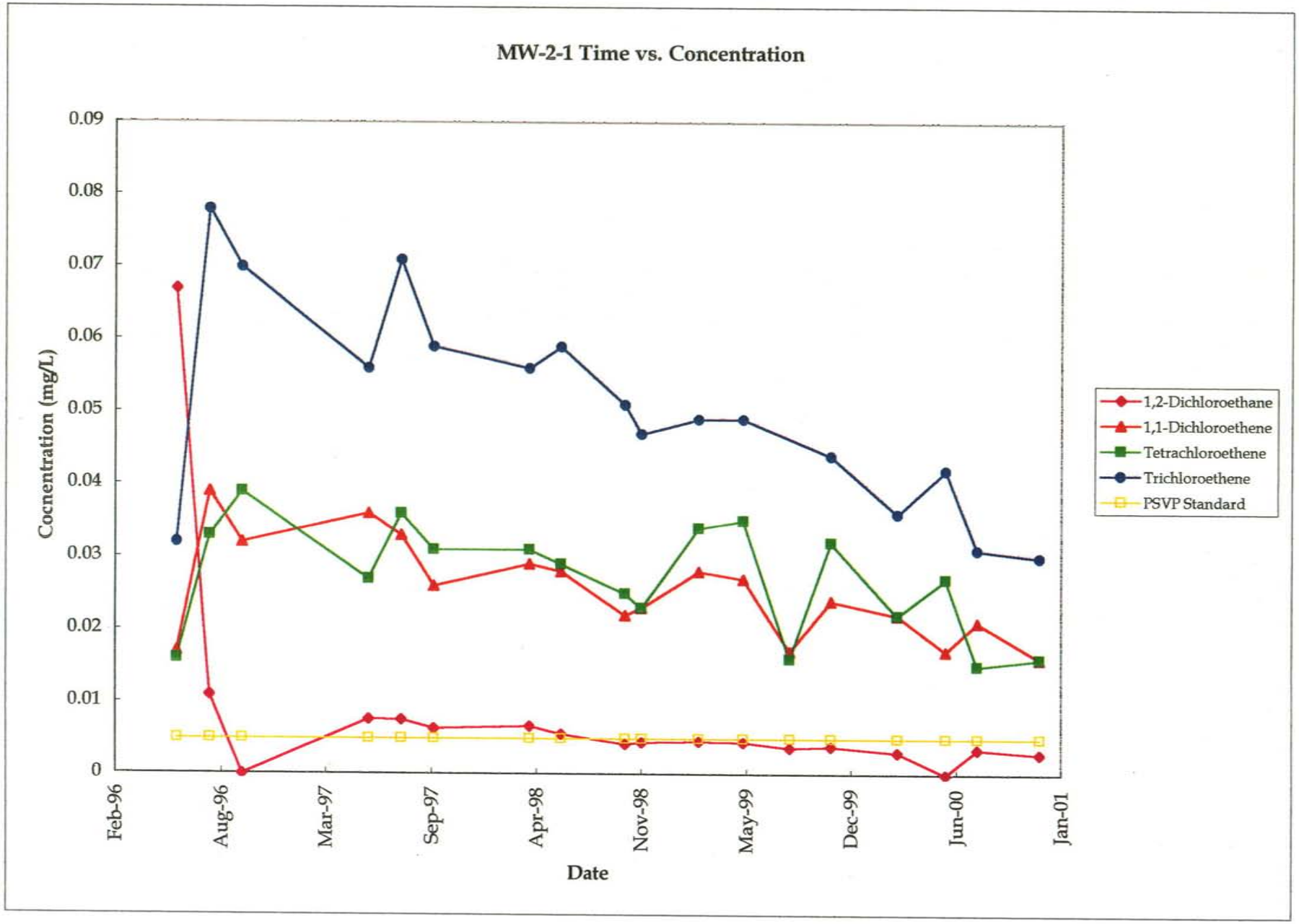
Shaded values are greater than or equal to PSVP standard.

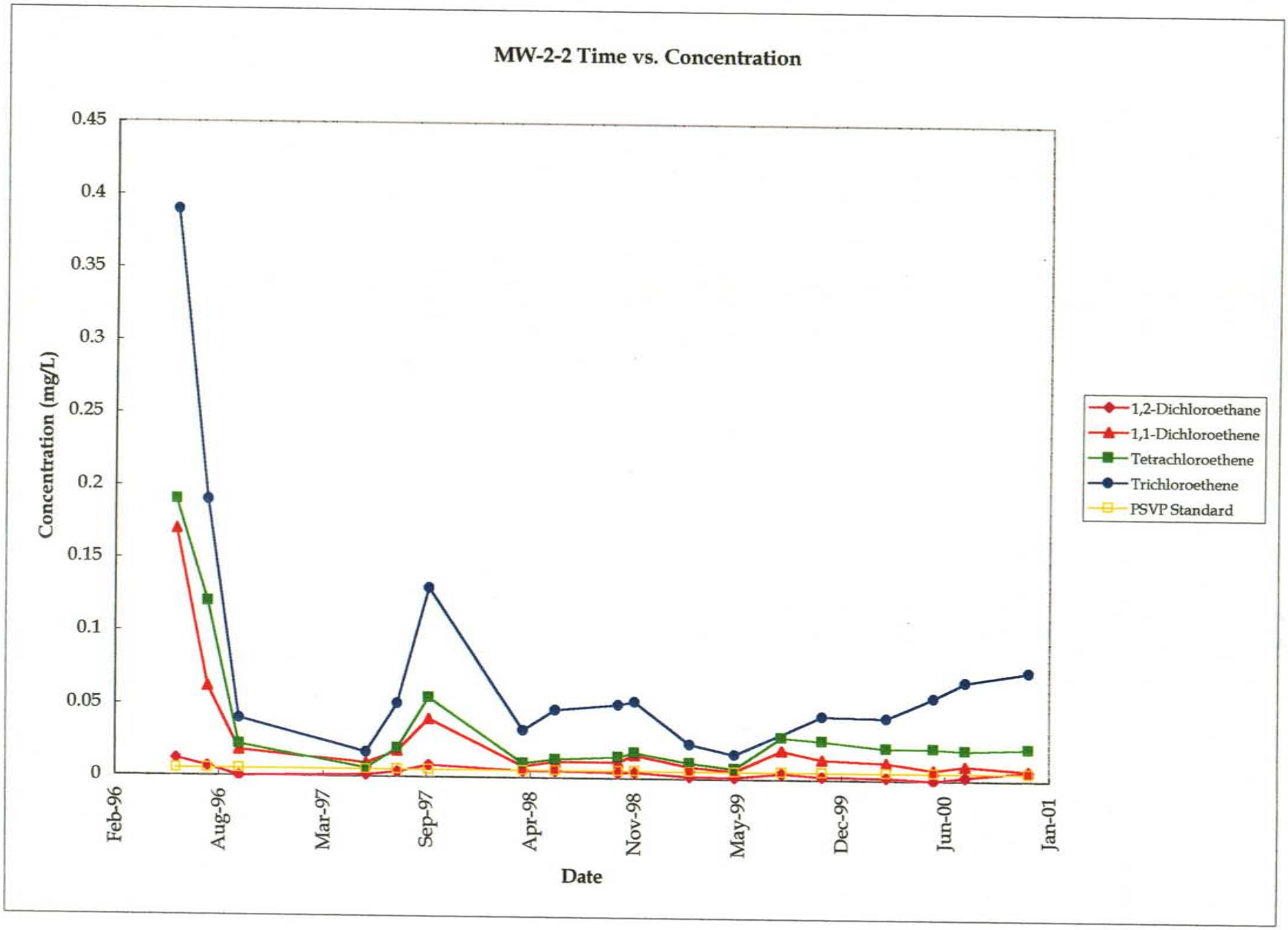
Appendix G
Concentration Versus Time Trend Charts

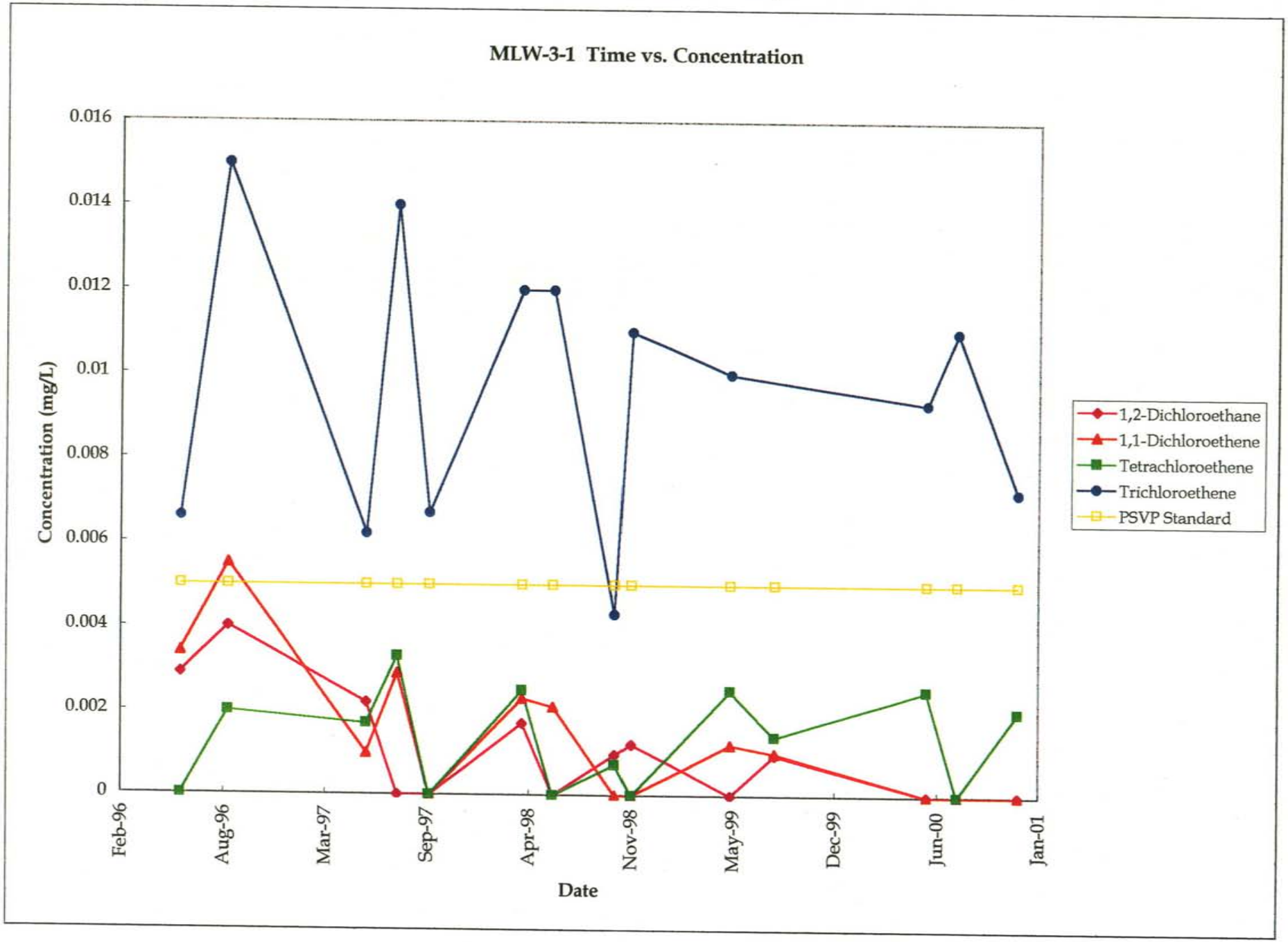

BW-108 Time vs. Concentration
Concentration (mg/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

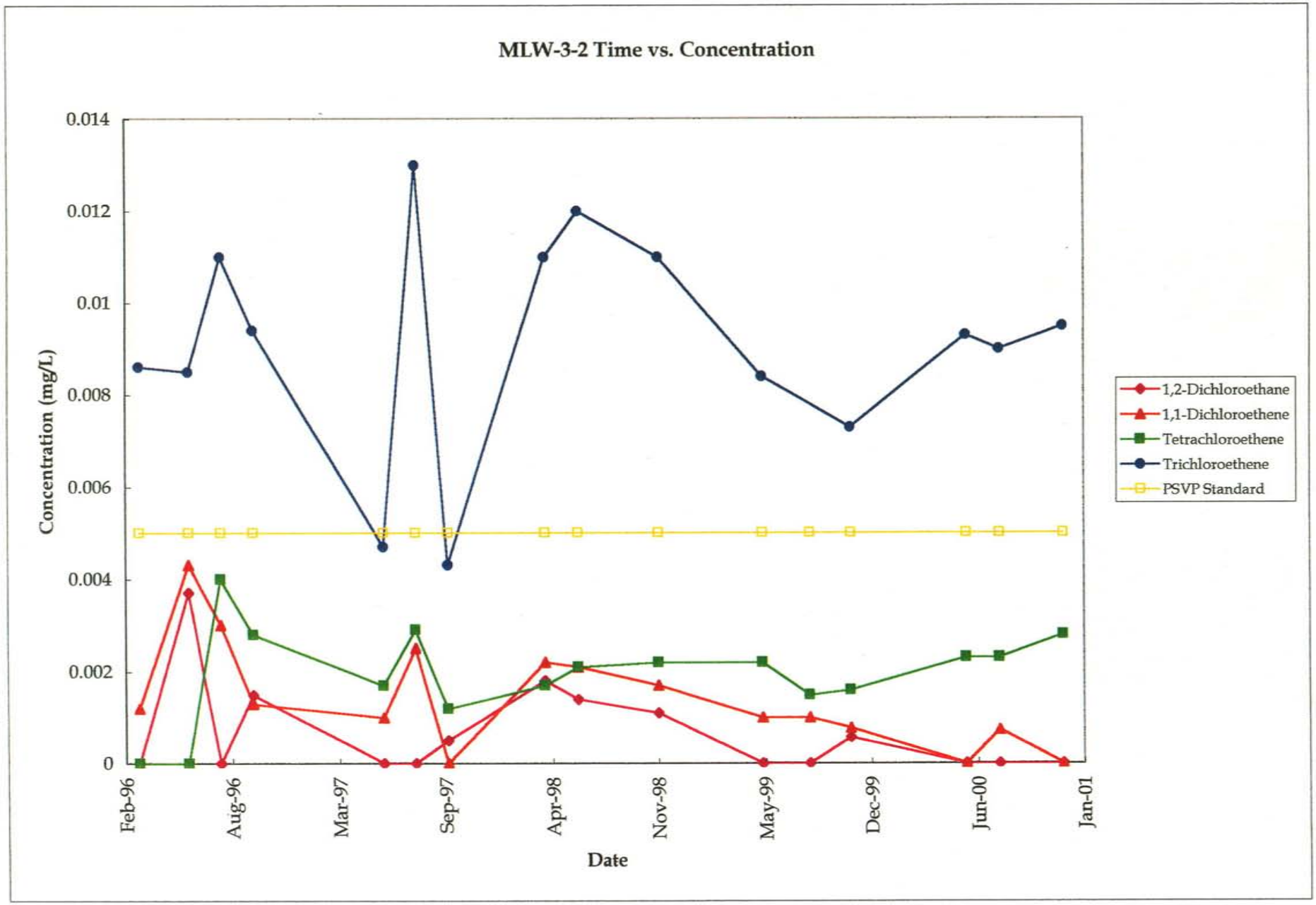

BW-201 Time vs. Concentration
Concentration (mg/L)
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

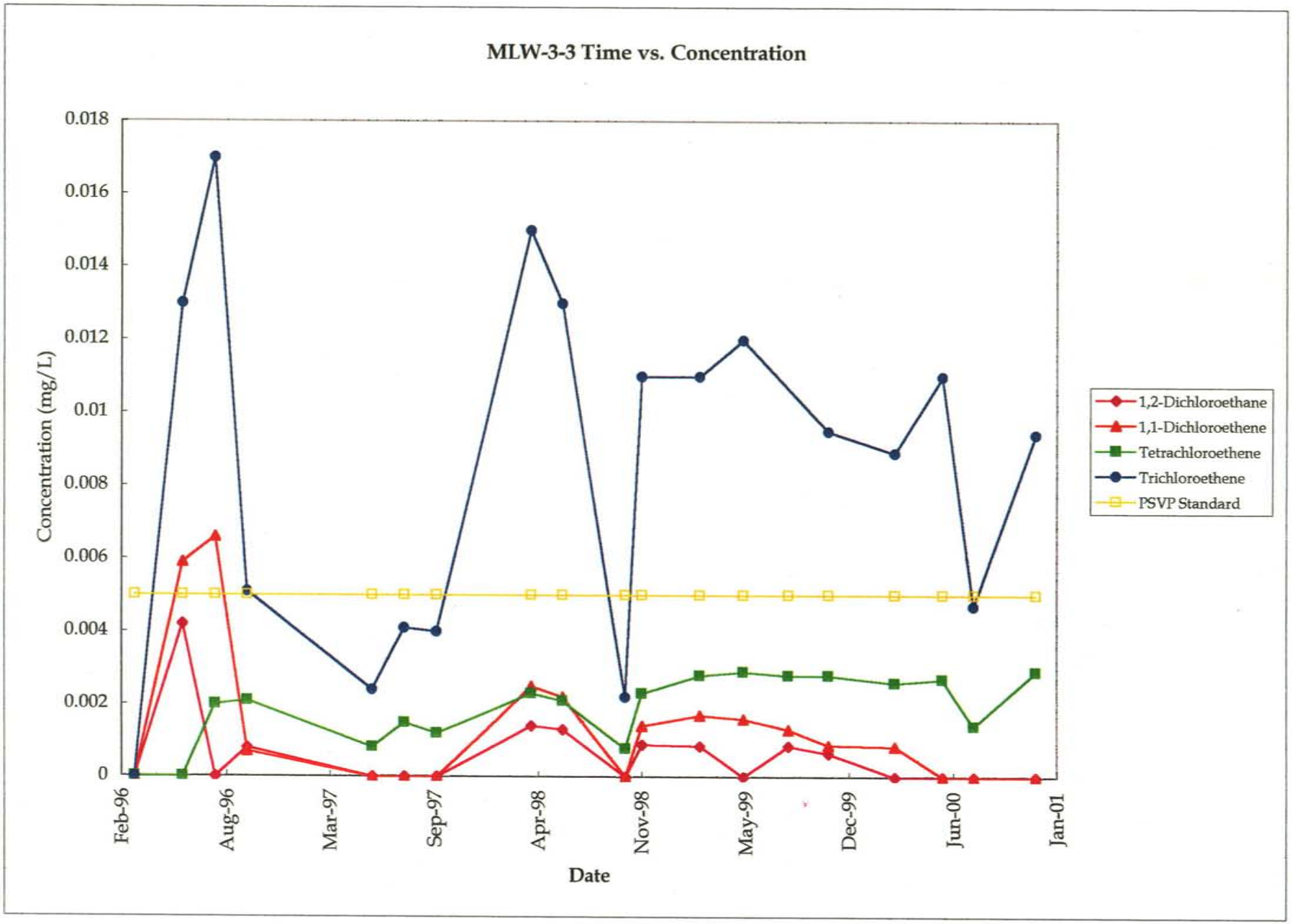

BW-202 Time vs. Concentration
Concentration (mg/L)
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

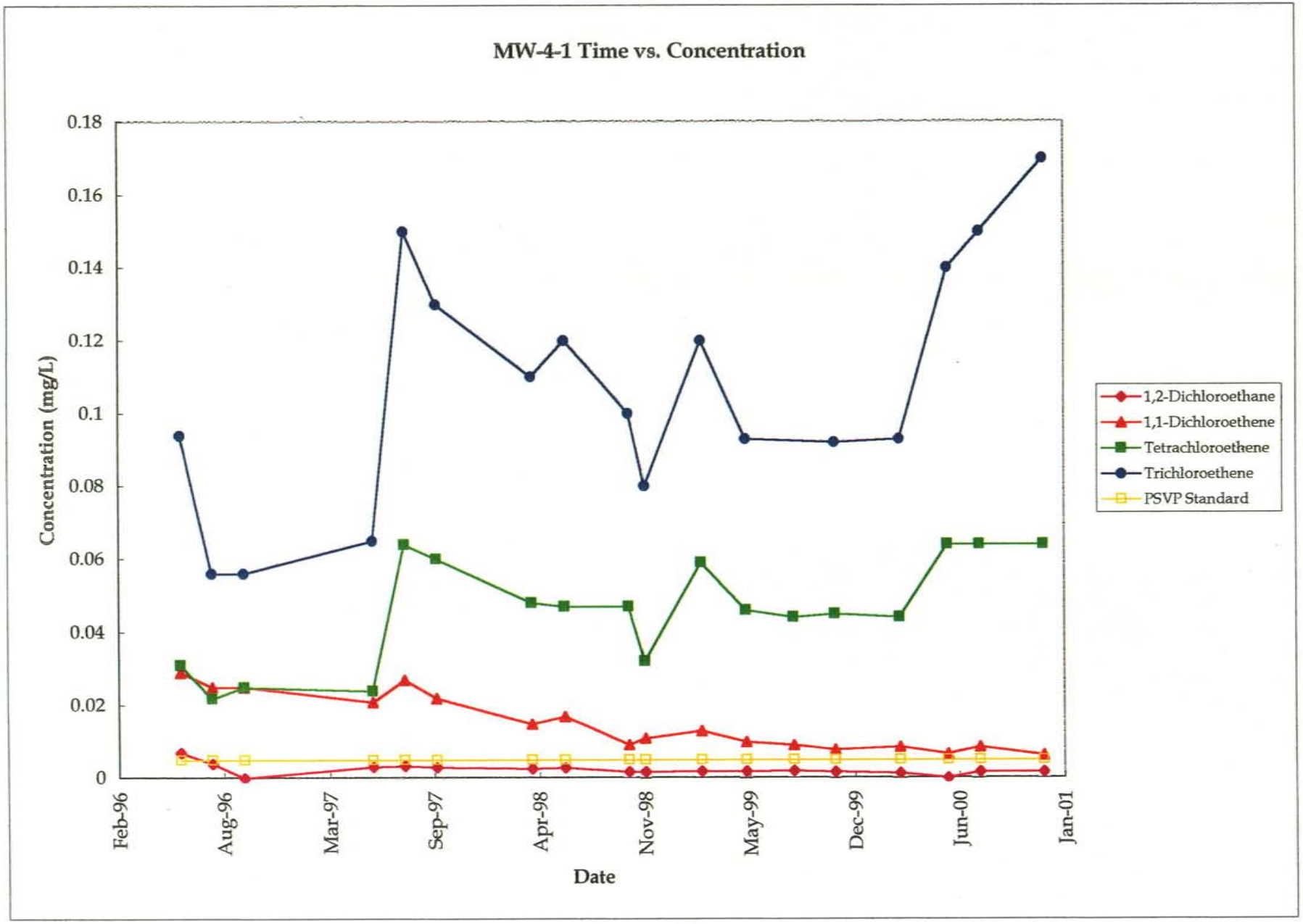

MW-2-1 Time vs. Concentration
Cocnentration (mg/L)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard


MW-2-2 Time vs. Concentration
Concentration (mg/L)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

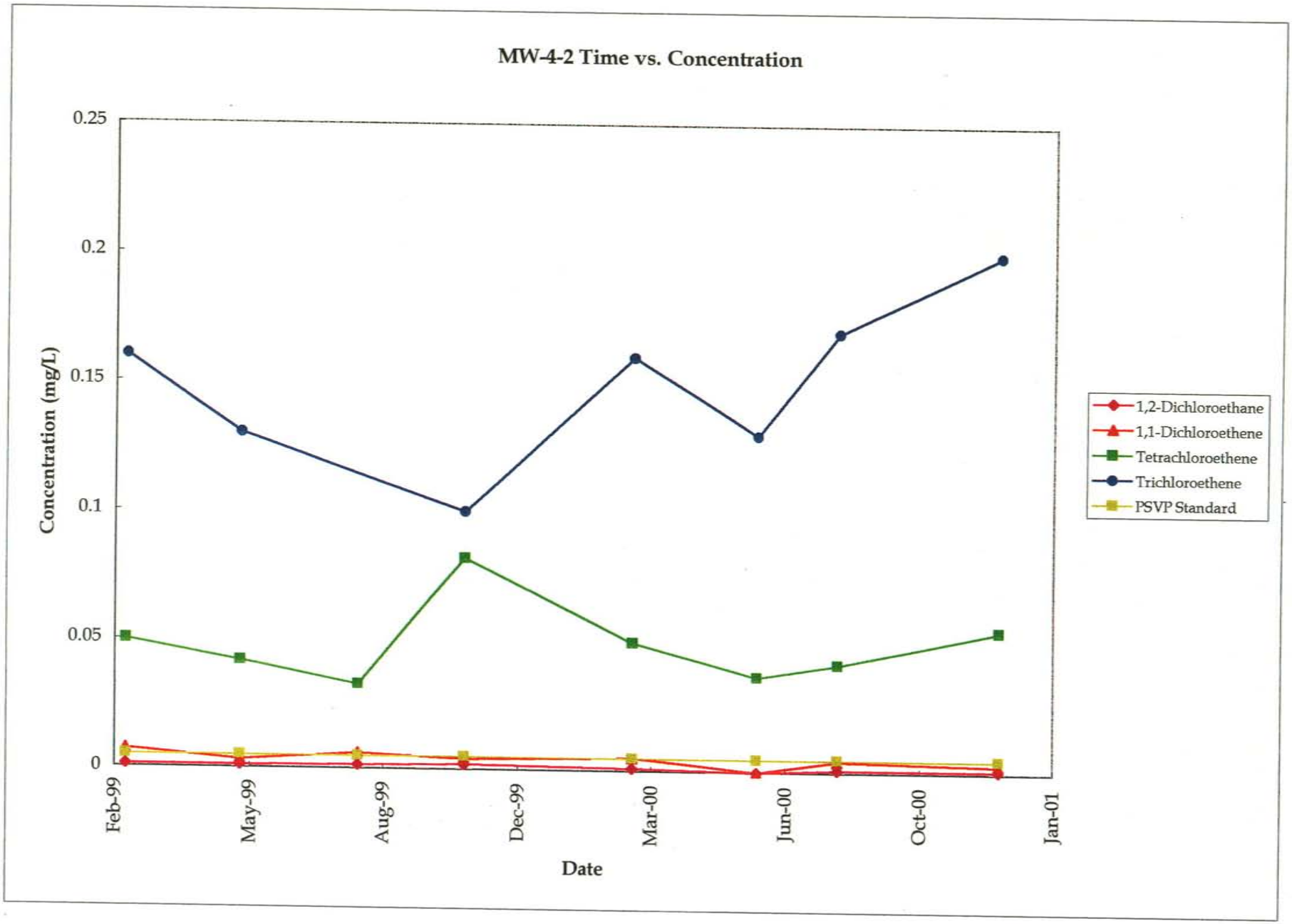

MLW-3-1 Time vs. Concentration
Concentration (mg/L)
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard


MLW-3-2 Time vs. Concentration
Concentration (mg/L)
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

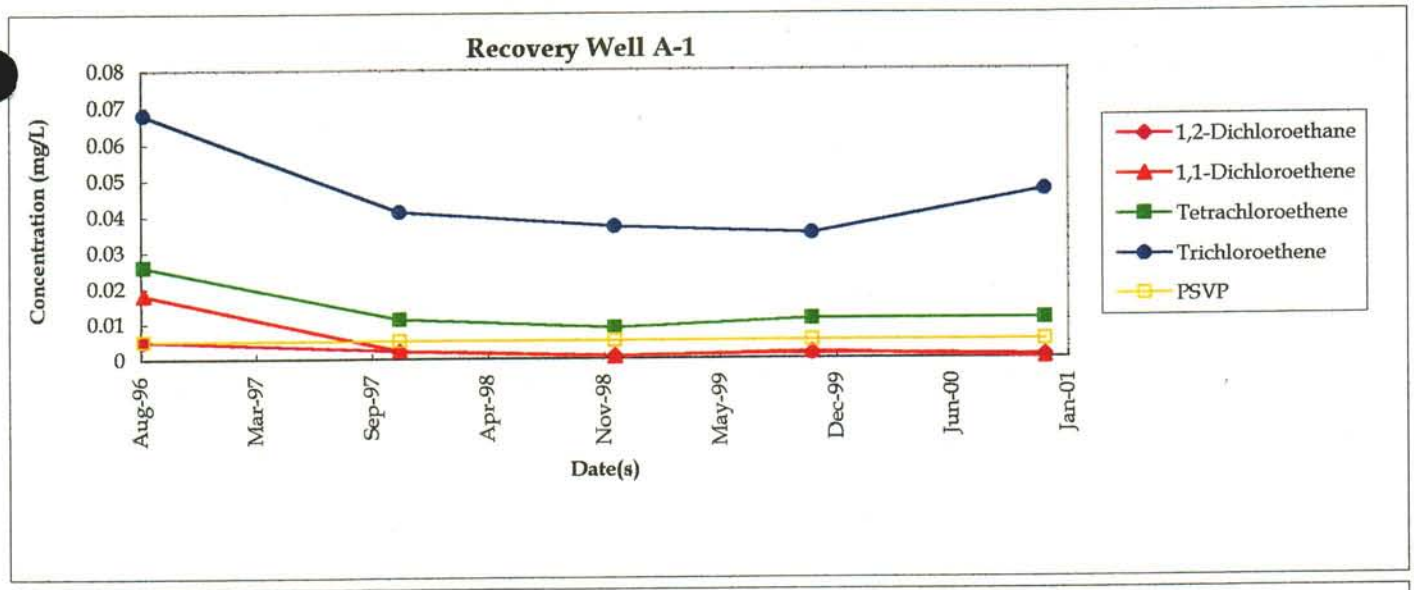

MLW-3-3 Time vs. Concentration
Concentration (mg/L)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

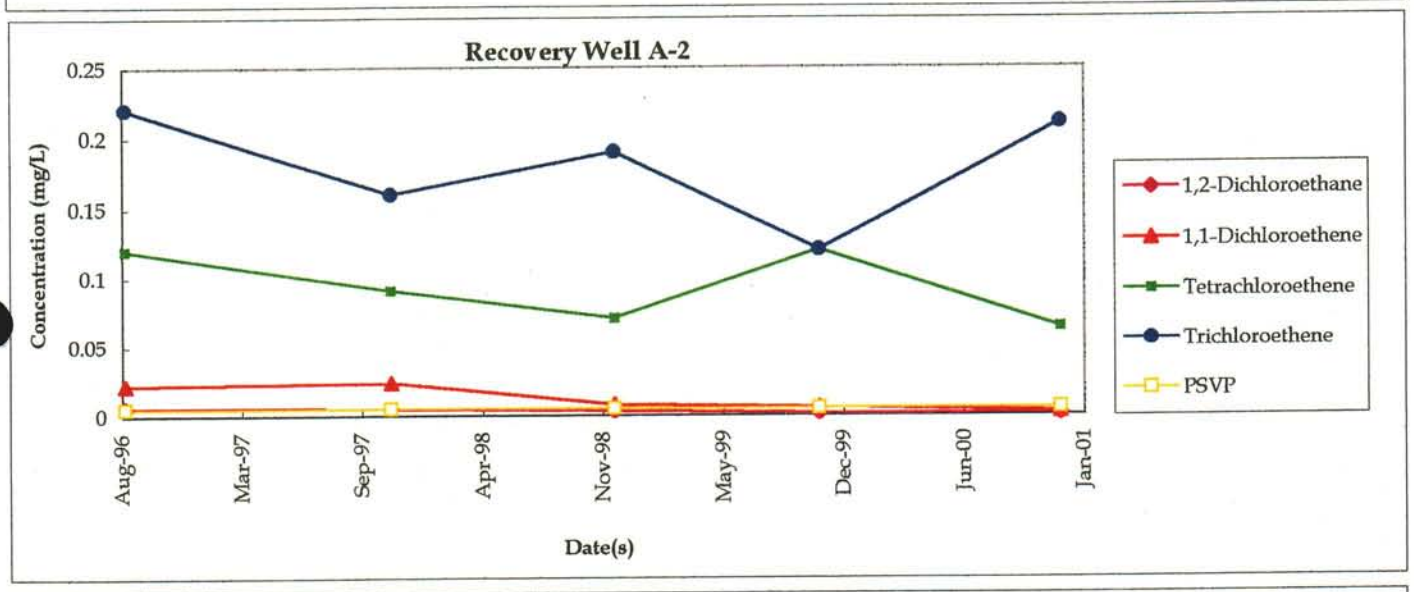

MW-4-1 Time vs. Concentration
Concentration (mg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Feb-96
Aug-96
Mar-97
Sep-97
Apr-98
Nov-98
May-99
Dec-99
Jun-00
Jan-01
Date
1,2-Dichloroethane
1,1-Dichloroethene
Tetrachloroethene
Trichloroethene
PSVP Standard

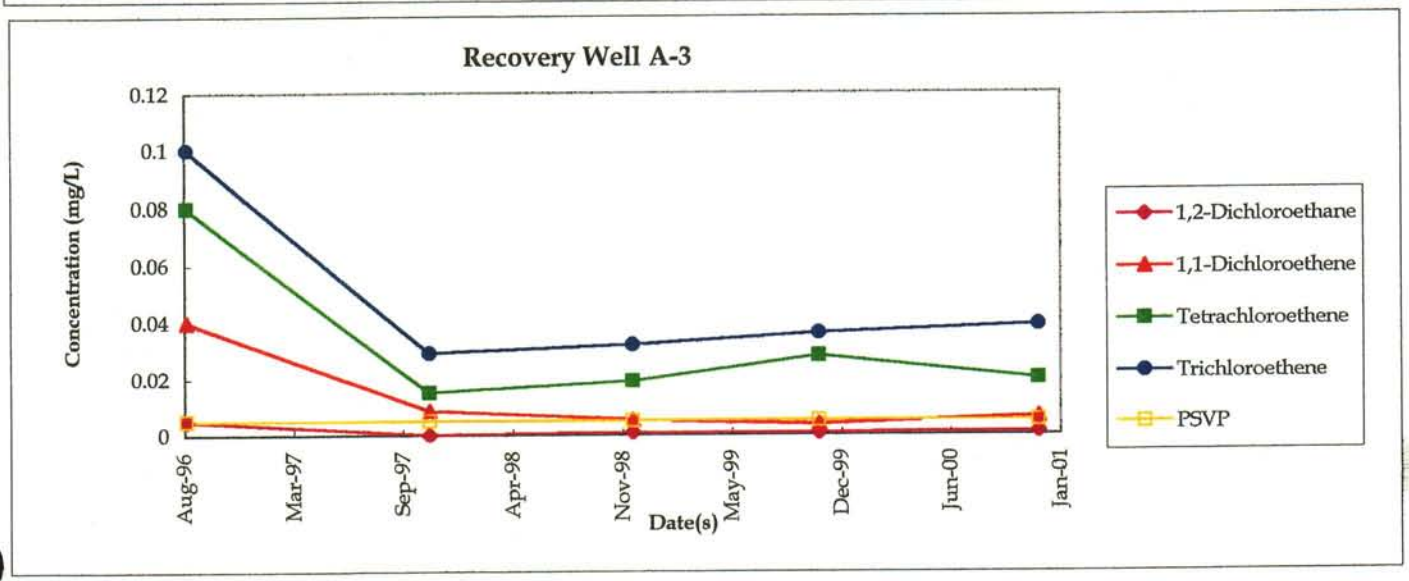
Appendix G
Time vs. Concentration Graphs



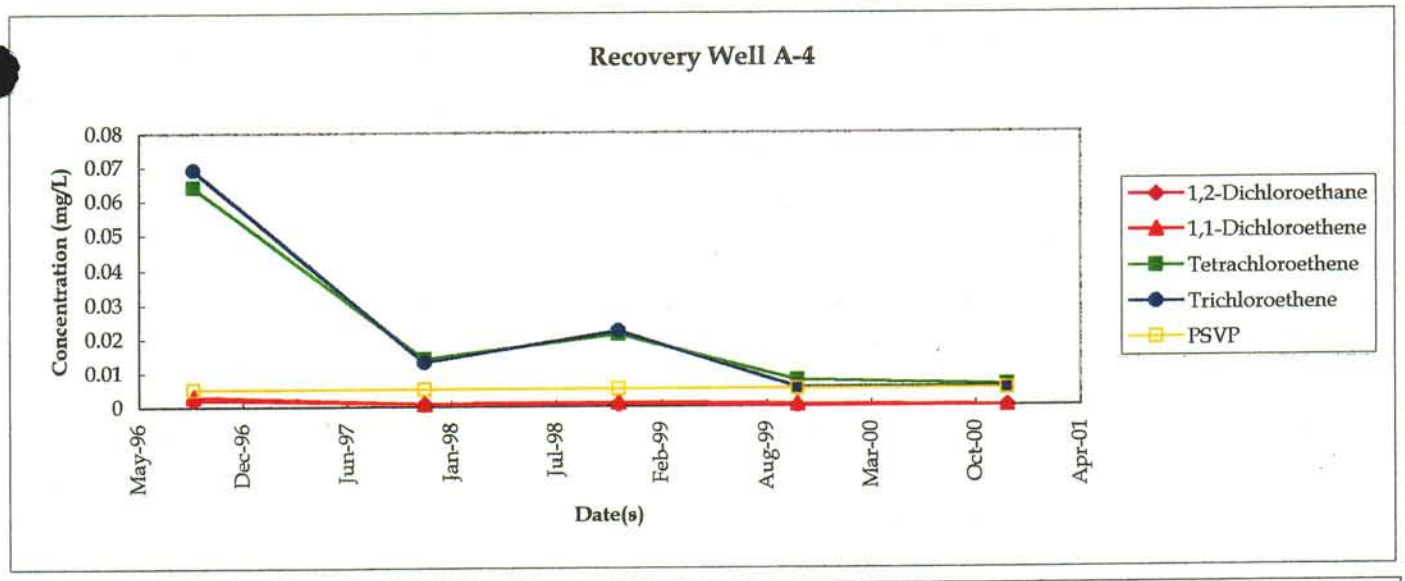
Appendix G
Time vs. Concentration Graphs

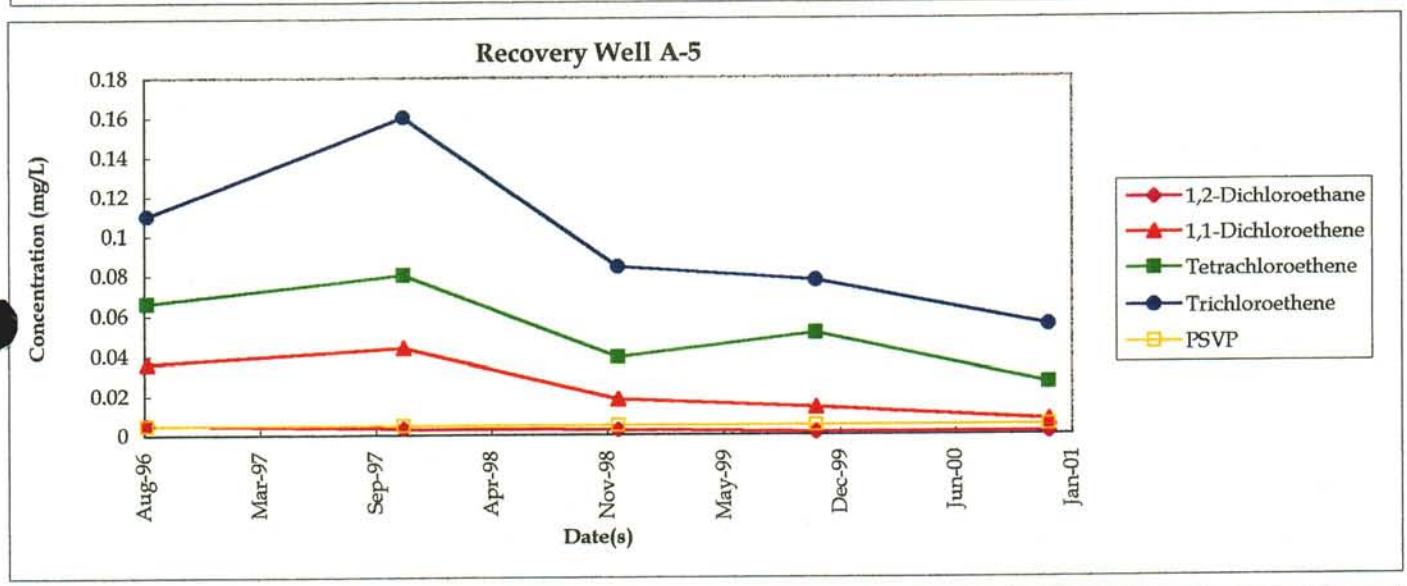


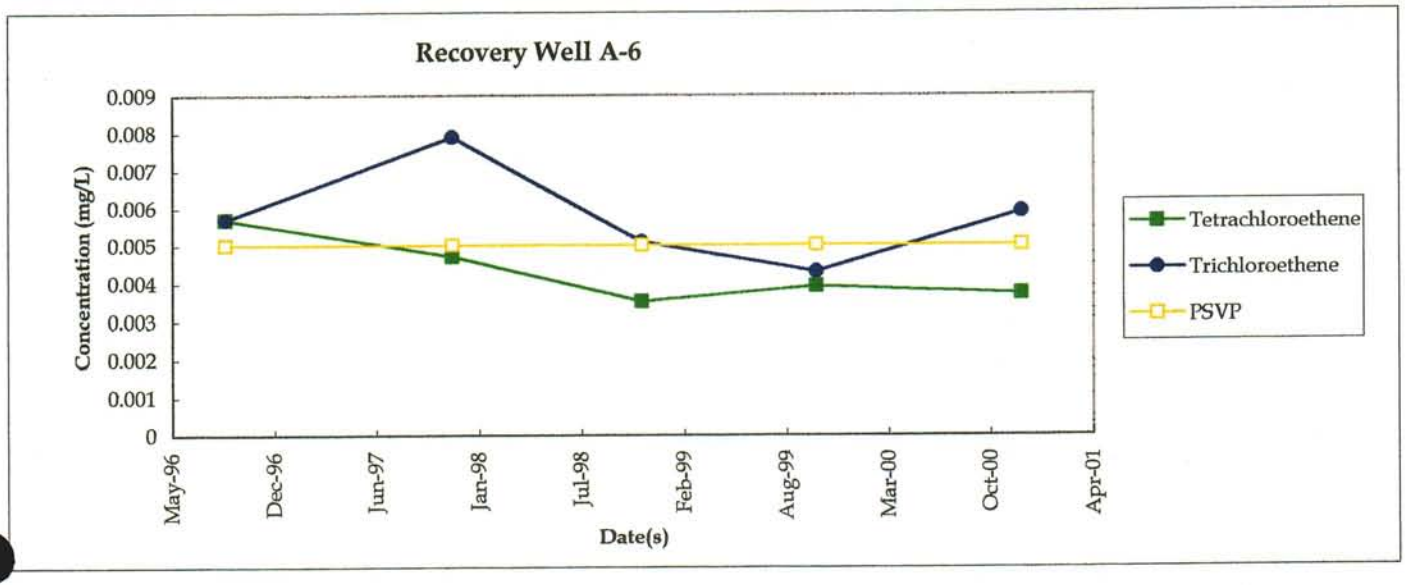




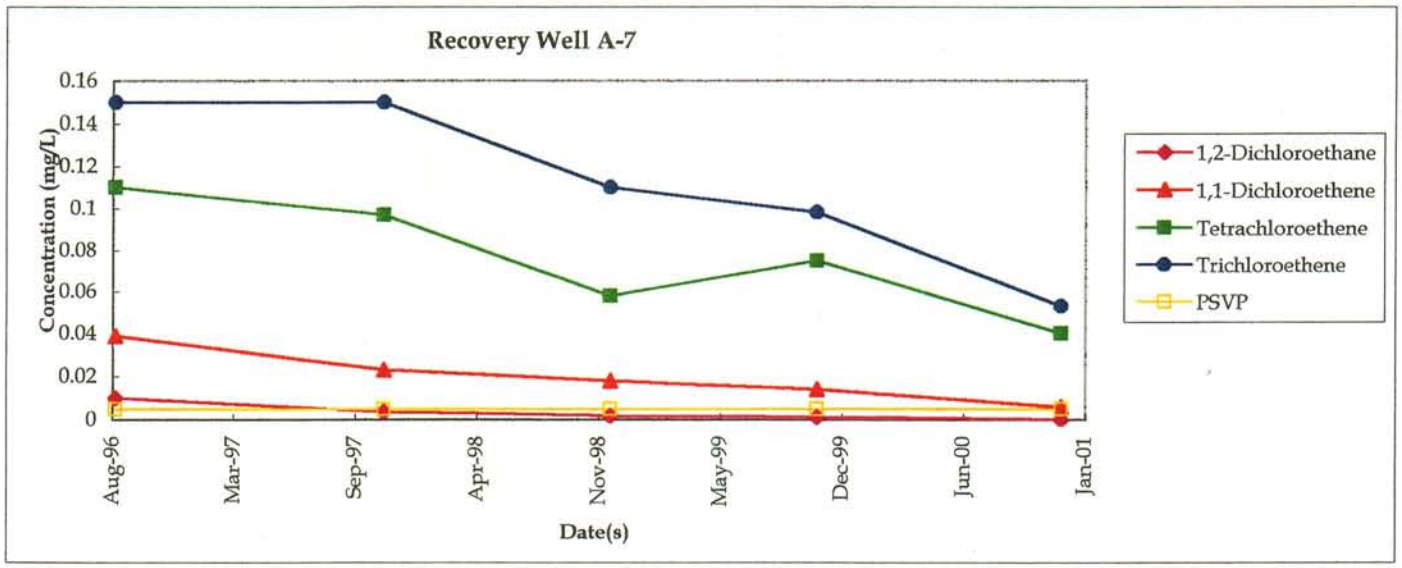
Appendix G
Time vs. Concentration Graphs



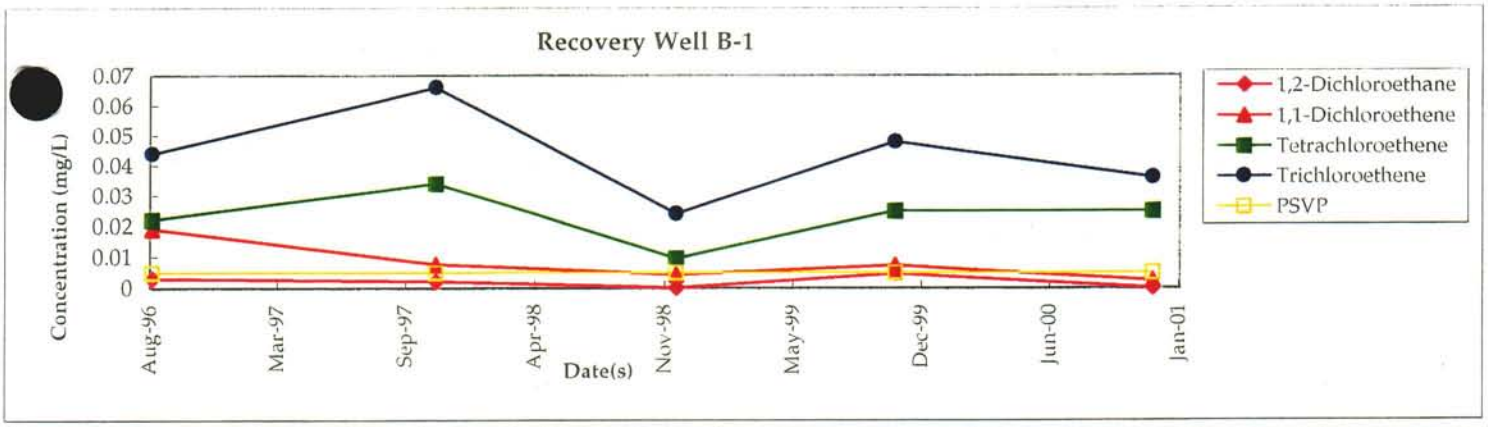


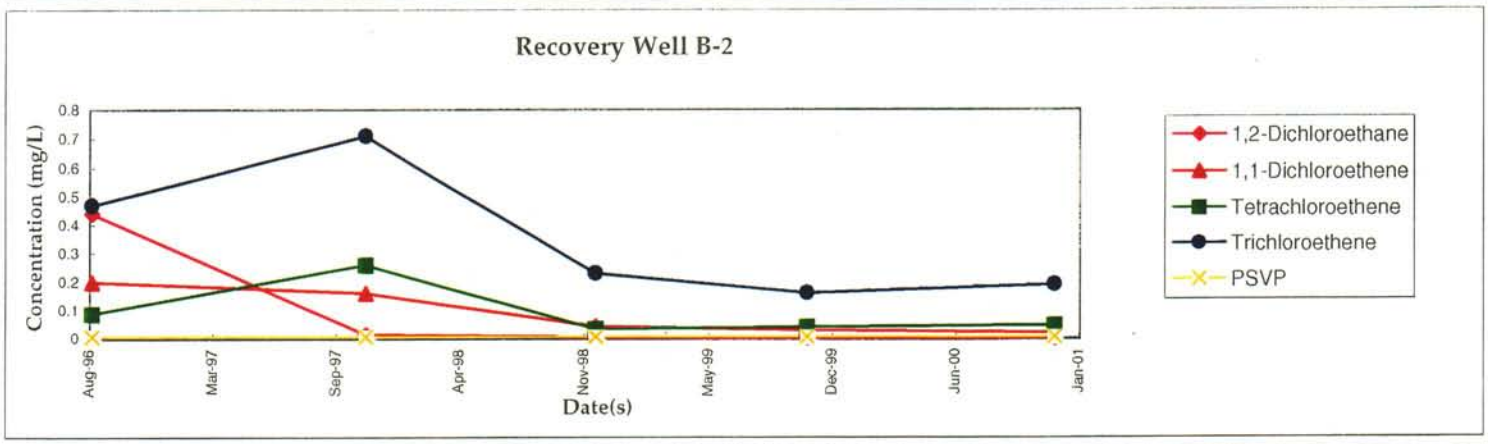


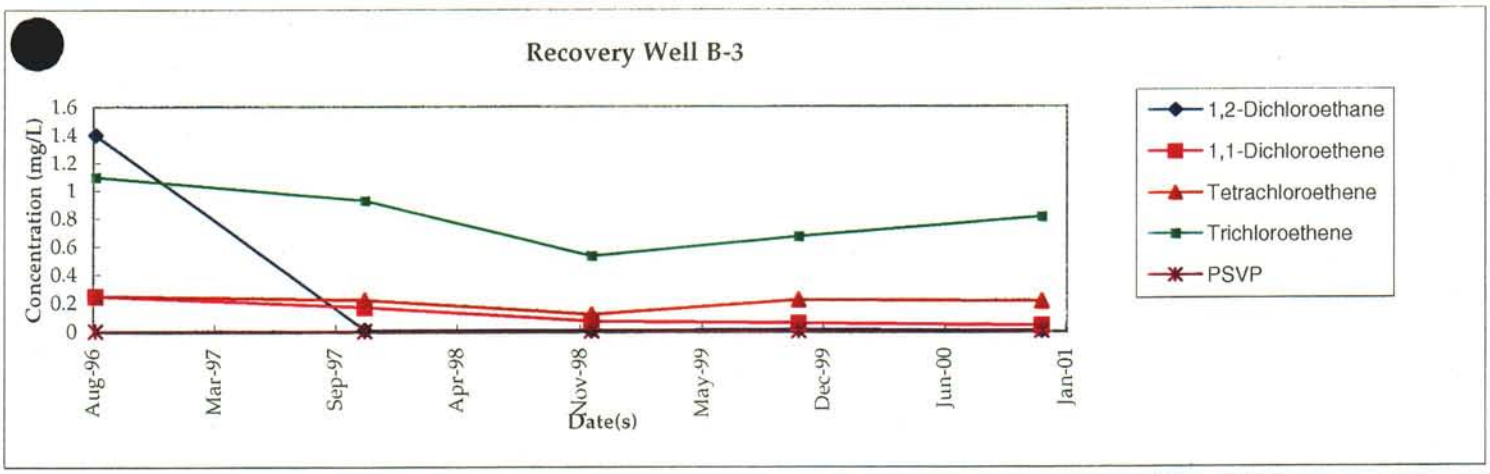
Appendix G
Time vs. Concentration Graphs

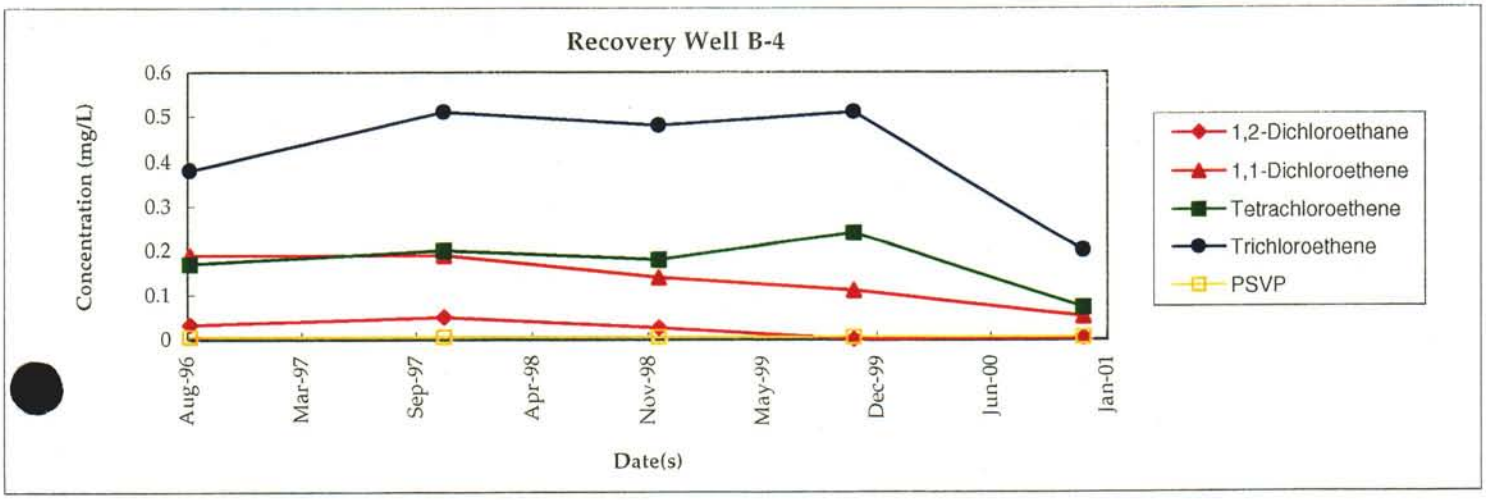


Time vs. Concentration Graphs



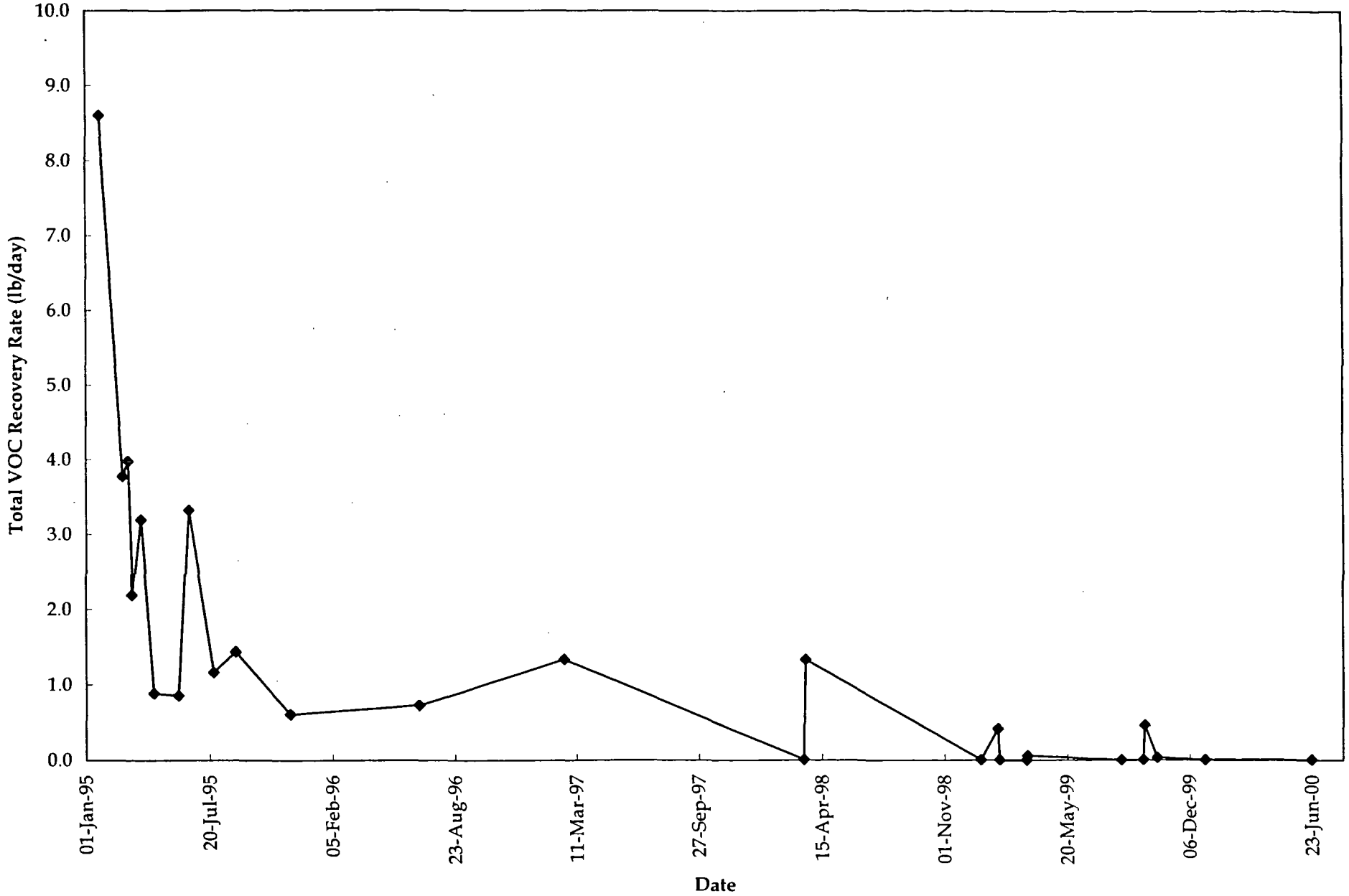




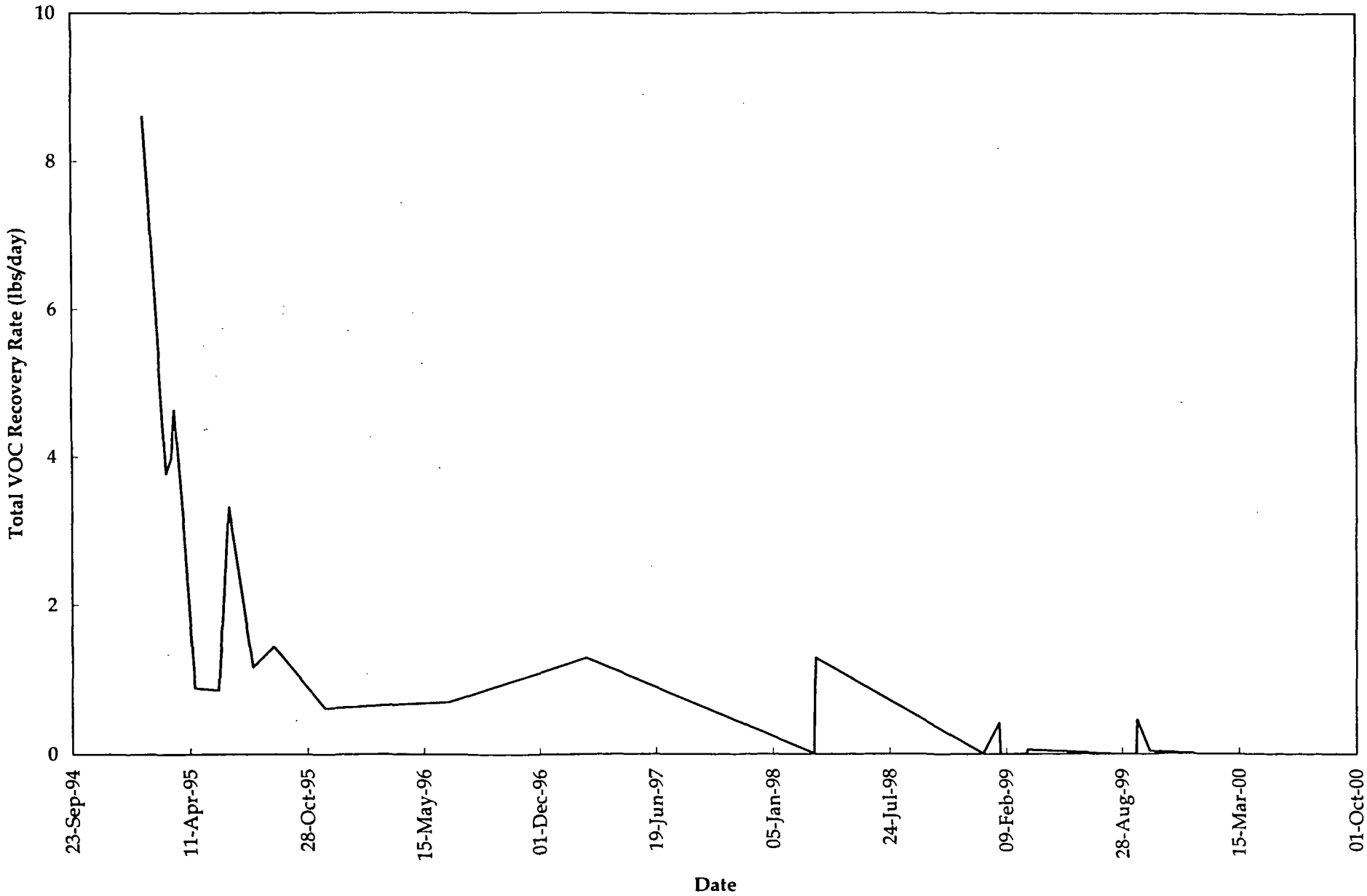


Appendix H
Soil Vapor Extraction Performance Graphs

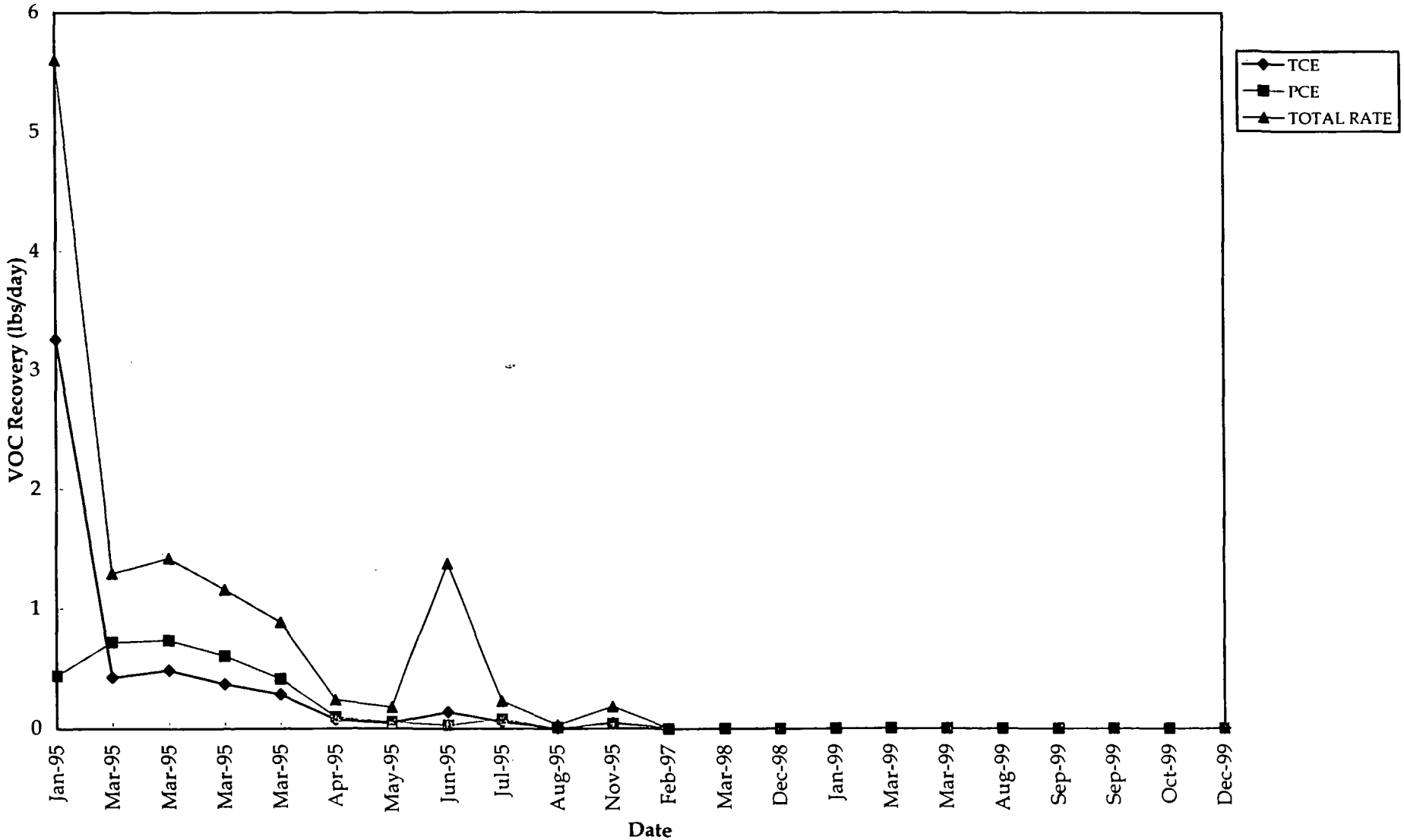
Appendix H-1
SVE System Total



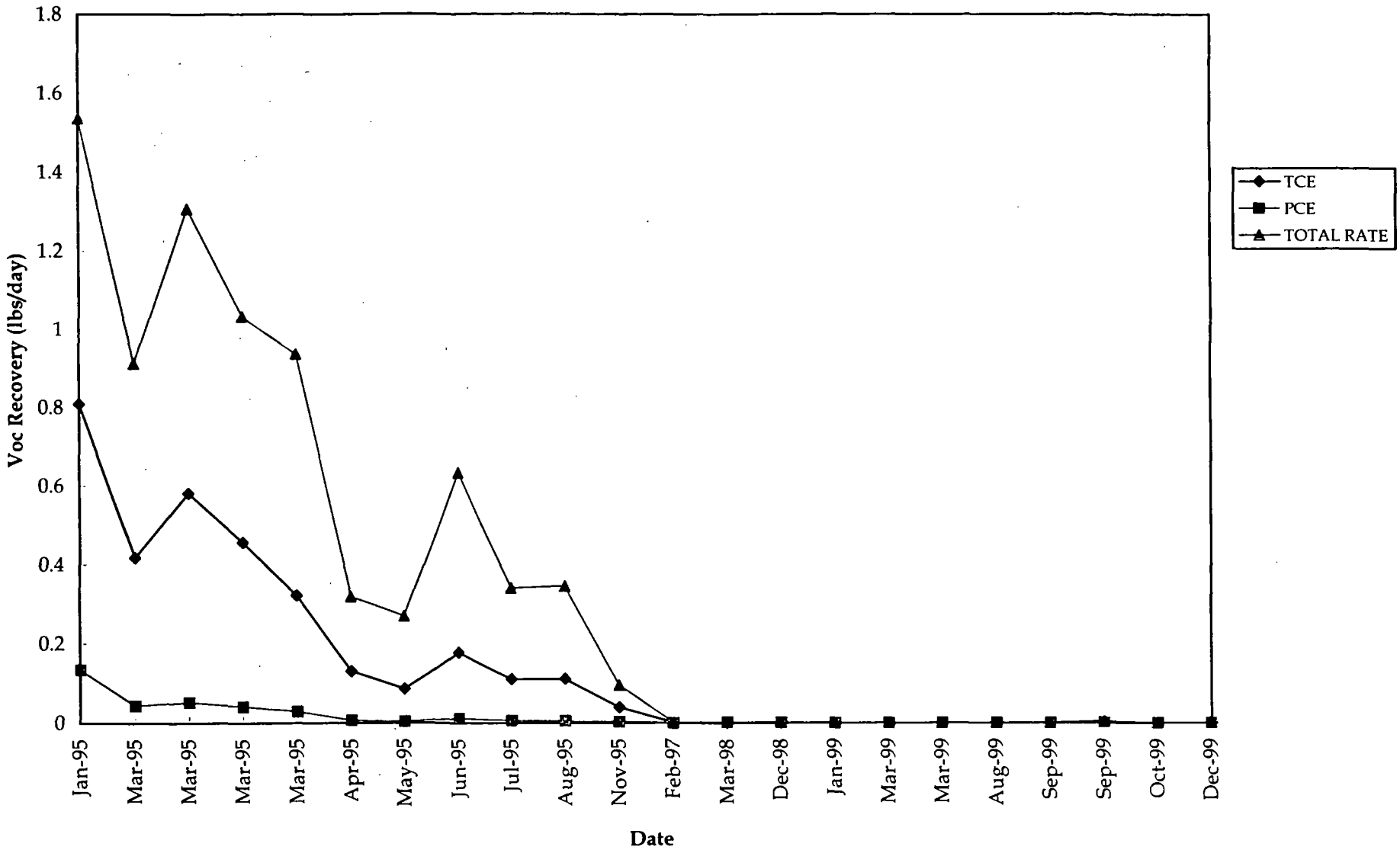
Appendix H-10
Area 3 Total



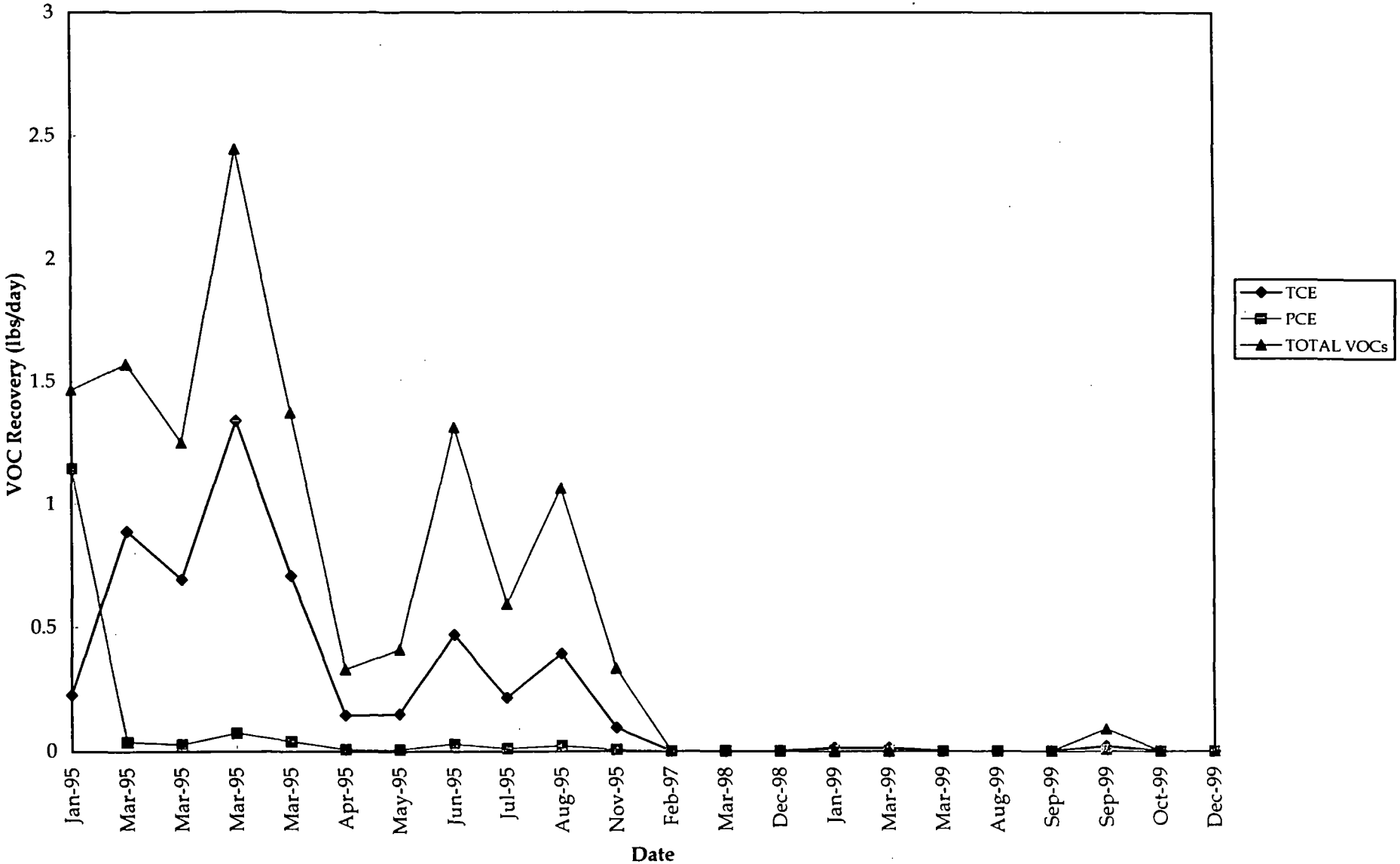
Appendix H-11
Historical VOC Recovery Rates
VE-301



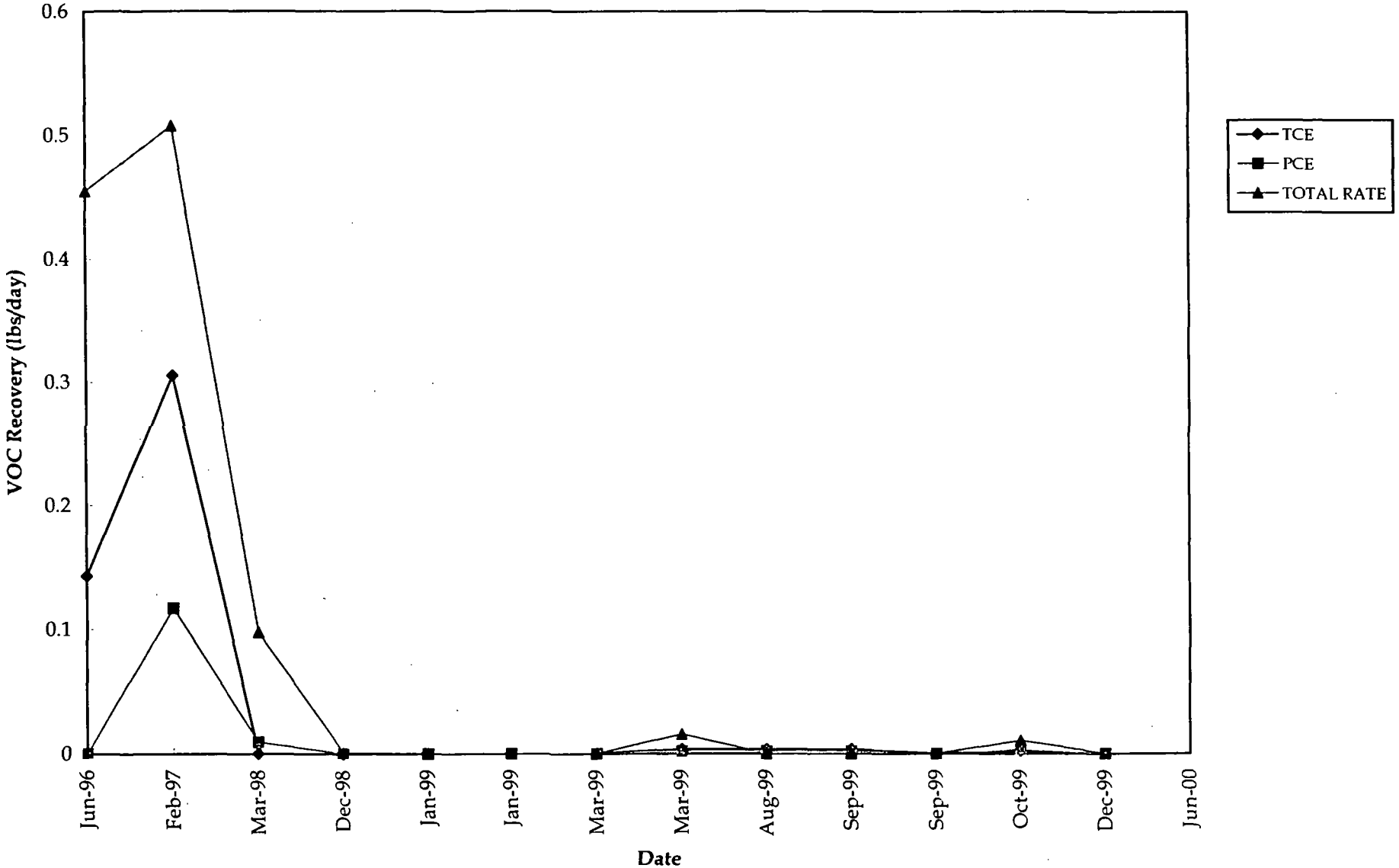
Appendix H-12
Historical VOC Recovery Rates
VE-302



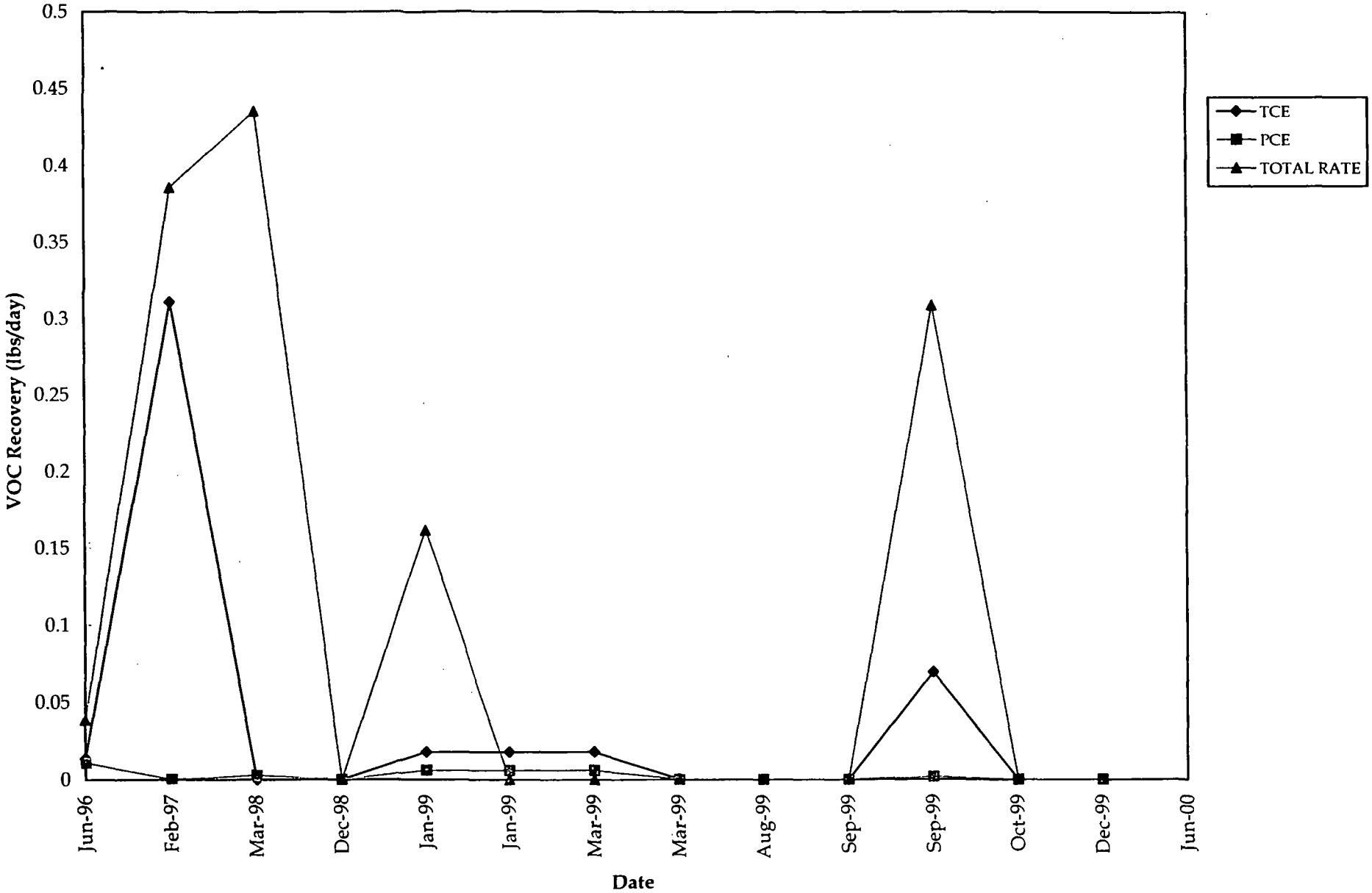
Appendix H-13
Historical VOC Recovery Rates
VE-303



Appendix H-14
Historical VOC Recovery Rates
VM-301D



Appendix H-15
Historical VOC Recovery Rates
VM-304S



Appendix I
Soil Vapor Extraction Analytical Data

copy: DCR,
File 938.80

Wisconsin Occupational Health Laboratory

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2601 Agriculture Dr.
Madison, WI 53718
Fax: (608) 224-6213

University of Wisconsin

June 30, 2000

Ref: WMB

QC-WMB 7-17-00-✓

Company #: 42

-6778

PROJ 93888
PROJ MEDLEY FARMSVE

The results for the samples received by the lab on 06/22/00 are as follows:

Lab#	Field#	Value	Unit	Analyte
830908	STACK150STK			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <5.7	ug/sample	Perchloroethylene
		8.2	ug/sample	Ethylene Dichloride
		<=2.4	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)

Comments: Samples may contain traces of tetrahydrofuran and p-dioxane.

830909	VM3015			Solvent Scan
		<=9.9	ug/sample	Trichloroethylene
		14	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830910	VM301D			Solvent Scan
		23	ug/sample	Trichloroethylene
		15	ug/sample	Perchloroethylene
		68	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830911	VM302S			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <5.7	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830912	VM302D			Solvent Scan
		<=9.9	ug/sample	Trichloroethylene
		39	ug/sample	Perchloroethylene
		37	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates

WOHL Wisconsin Occupational Health Laboratory

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Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene

University of Wisconsin

PROJ 93888
PROJ MEDLEY FARMSVE

Lab#	Field#	Value	Unit	Analyte
830912	VM302D	ND <1.2	ug/sample	Naphtha (Coal Tar)
830913	VM303S			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		<=11	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830914	VM303D			Solvent Scan
		<=9.9	ug/sample	Trichloroethylene
		274	ug/sample	Perchloroethylene
		ND <3.9	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830915	VM304S			Solvent Scan
		73	ug/sample	Trichloroethylene
		ND <5.7	ug/sample	Perchloroethylene
		641	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830916	VM304D			Solvent Scan
		55	ug/sample	Trichloroethylene
		ND <5.7	ug/sample	Perchloroethylene
		70	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830917	VE301			Solvent Scan
		ND <4.8	ug/sample	Trichloroethylene
		ND <5.7	ug/sample	Perchloroethylene
		9.0	ug/sample	Ethylene Dichloride
		<=2.4	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)
830918	VE302			Solvent Scan
		28	ug/sample	Trichloroethylene
		ND <5.7	ug/sample	Perchloroethylene
		62	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates

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University of Wisconsin

RMT - GREENVILLE June 30, 2000

PROJ 93888
PROJ MEDLEY FARMSVE

Lab#	Field#	Value	Unit	Analyte
830918	VE302	ND <1.2	ug/sample	Naphtha (Coal Tar)
830919	VE303			Solvent Scan
		124	ug/sample	Trichloroethylene
		32	ug/sample	Perchloroethylene
		587	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)

Report contains 3 page(s).

If you have any questions about these results, please call the lab at (800) 446-0403

Steve Strebel, Organic Supervisor

Shari Schwabe

RMT®

#42

CHAIN OF CUSTODY RECORD

№ 070037

100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No.: 938.88

Project/Client: MEDLEY FARM (SVE)

Project Manager/Contact Person: KAREN BROOKS / DAVID ROOS

Filtered (Yes/No): N

Preserved (Code): A

Analyses Requested: SOLVENT SCAN

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No.	Yr. 00 Date	Time	59702 Sample Station ID	Total Number Of Containers	MATRIX	Analyses Requested: SOLVENT SCAN								Comments:
	6/20	13:15	STACK 830908 (50 STROKES)	1	CT	1								C.T. = CHARCOAL TUBE
		13:25	VM-301S 830909	1		1								
		13:35	VM-301D 830910	1		1								
		13:45	VM-302S C. 830911	1		1								
		13:55	VM-302D 830912	1		1								
		14:05	VM-303S 830913	1		1								
		14:15	VM-303D 830914	1		1								
		14:25	VM-304S 830915	1		1								
		14:35	VM-304D 830916	1		1								
	6/20	14:45	VE-301 830917	1		1								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Neal Dunlap	6/21/00 1700	AIRBORNE # 6391671-860	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
		J McGary	6-22.00

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: Temp Blank Y N

Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

F-268 (R10/99)

830908-916 → lct lot 120 830917 → lct lot 2000

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

Ok

CHAIN OF CUSTODY RECORD

№ 070038

RMT®
100 Verdae Boulevard, P.O. Box 16778 • Greenville, SC 29606-6778 • Phone (864) 281-0030 • Fax (864) 281-0288

Project No. 938.88
Project/Client: MEDLEY FARM (SVE)
Project Manager/Contact Person: KAREN BROOKS / DAVID ROOS

Filtered (Yes/No): N
Preserved (Code): A

Analyses Requested: SOLVENT SCAN

PRESERVED CODES
A - NONE
B - HNO_3
C - H_2SO_4
D - NaOH
E - HCl
F - METHANOL
G - _____

Lab No.	Yr. 00 Date	Time	Sample Station ID	Total Number Of Containers	MATRIX	Analyses Requested								Comments:
	6/20	14:55	VE-302 830918	1	CT	1								CT = CHARCOAL TUBE
	6/20	15:05	VE-303 830919	1	CT	1								

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Neal Dunlap	6/21/00 1700	AIRBORNE # 6391671-860	
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
		A McCleary	6-22-00

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank Y N
Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

F-268 (R10/99)

830918-919 1ct lot 2000

WHITE - LABORATORY COPY YELLOW - REPORT APPENDIX PINK - SAMPLER/SUBMITTER

WOHL Study Limits (ug/sample)

Analyte	MDL	MQL
Trichloroethylene	4.8	9.9
Perchloroethylene	5.7	11.4
Ethylene Dichloride	3.9	7.8
Petroleum Distillates	1.2	2.4
Naphtha (Coal Tar)	1.2	2.4

WOHL Wisconsin Occupational Health Laboratory

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Madison, WI 53718
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June 30, 2000 42

KAREN BROOKS
RMT - GREENVILLE
100 VERDAE BLVD
PO BOX 16778
GREENVILLE SC 29606-6778

GENERAL SOLVENTS

These samples are analyzed using a method based on OSHA 7.

The collection media is either a SMALL or LARGE Activated Charcoal tube.

Front and back sections of the tube are separately desorbed in 1 ml for SMALL tubes (or 3 ml for LARGE tubes) of Carbon Disulfide for 30 minutes prior to analysis.

The samples are run on a Hewlett-Packard Gas Chromatograph equipped with an FID. The Primary and Confirming columns were chosen from the following:
SP-1000 Capillary
Nukol Capillary
Carbopack C C/0.1% SP-1000
VoCol 105M Capillary
HP-5 Capillary

Samples may also have been confirmed on a Model 5972 Hewlett-Packard Gas Chromatograph Mass-Selective Detector containing a Nukol Capillary.

Minimum Detection Limits are specific for each substance.

Shari Schwabe Analyst

Steve Strebel Organic Supervisor

WOHL Wisconsin Occupational Health Laboratory

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Madison, WI 53718
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Wisconsin State Laboratory of Hygiene

University of Wisconsin

LABORATORY QUALITY CONTROL REPORT

Chemist Initials: SLS Analysis Date: 06 - 23 - 00 Equipment Code: 106R
Equipment Description: HP GC SERIES II (R-REAR)

The following samples were analyzed for QUALITY COMPLIANCE along with normal FIELD samples.

These results meet WOHL Lab Quality Control criteria.

---------- CORRECT ----------

REPORTED VALUES ARE CORRECT FOR SAMPLES: 81243 AND 81244
Results are within 2 standard deviation.

Q-C Sample#	Reported Value(R)	Actual Value(A)	Units	Ratio (R/A)	Std Dev	S-Code	Substance Name
81243	910.000	889.000	ug/sam	1.0236	1	T306	1,2,4-trimethyl benzene
81244	2818.000	2667.000	ug/sam	1.0566	2	T306	1,2,4-trimethyl benzene

The Quality Control limits are calculated based on 1, 2, and 3 STANDARD DEVIATIONS derived from historical data for a particular analyte. The MEAN values are adjusted to 1 in order to avoid any positive or negative bias.

KEY : COLUMN HEADINGS

Q-C Sample# : Laboratory prepared Quality Control sample number.
Reported Value : Analyst's results.
Actual Value : Amount of analyte applied to the QC sample.
Ratio : Ratio of Reported/Actual.
Std Dev : Number of Standard Deviations from the MEAN value.
S-Code : Substance (analyte) code.

WOHL Wisconsin Occupational Health Laboratory

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Madison, WI 53718
Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene University of Wisconsin

November 28, 2000

NEAL DUNLAP
RMT - GREENVILLE
100 VERDAE BLVD
PO BOX 16778
GREENVILLE SC 29607

Company #: 42

PROJECT 93888
MEDLEY FARM SVE

The results for the samples received by the lab on 11/13/00 are as follows:

Lab#	Field#	Value	Unit	Analyte
858162	SVE 110800			Solvent Scan
		<=7.8	ug/sample	Ethylene Dichloride
		ND <1.2	ug/sample	Petroleum Distillates
		ND <1.2	ug/sample	Naphtha (Coal Tar)

Comments: Ethylene Dichloride results were calculated using a lot lot 120 desorption value.

Report contains 1 page(s).

If you have any questions about these results, please call the lab at (800) 446-0403.

Steve Strebel, Organic Supervisor

Michael Jager

WOHL Wisconsin Occupational Health Laboratory

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P.O. Box 7996
Madison, WI 53707-7996
Phone: (800) 446-0403

Packages:
2601 Agriculture Dr.
Madison, WI 53718
Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene

University of Wisconsin

November 28, 2000 42

NEAL DUNLAP
RMT - GREENVILLE
100 VERDAE BLVD
PO BOX 16778
GREENVILLE SC 29607

GENERAL SOLVENTS

These samples are analyzed using a method based on OSHA 7.

The collection media is a SMALL, LARGE or JUMBO Activated Charcoal tube.

Front and back sections of the tube are separately desorbed in 1 ml for SMALL tubes, 3 ml for LARGE tubes or 5 or 10 ml for JUMBO tubes of Carbon Disulfide for 30 minutes prior to analysis.

The samples are run on a Hewlett-Packard Gas Chromatograph equipped with an FID. The Primary and Confirming columns were chosen from the following:
SP-1000 Capillary
Nukol Capillary
Carbopack C C/0.1% SP-1000
VoCol 105M Capillary
HP-5 Capillary

Samples may also have been confirmed on a Model 5972 Hewlett-Packard Gas Chromatograph Mass-Selective Detector containing a Nukol Capillary.

Minimum Detection Limits are specific for each substance.

Michael Jager	Analyst
Steve Strebel	Organic Supervisor

WOHL Wisconsin Occupational Health Laboratory

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Phone: (800) 446-0403

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Wisconsin State Laboratory of Hygiene University of Wisconsin

LABORATORY QUALITY CONTROL REPORT

Chemist Initials: MJJ Analysis Date: 11 - 24 - 00 Equipment Code: 99F
Equipment Description: HP GAS CHROM (F-FRONT)

The following samples were analyzed for QUALITY COMPLIANCE along with normal FIELD samples.

These results meet WOHL Lab Quality Control criteria.

---------- CORRECT ----------
REPORTED VALUES ARE CORRECT FOR SAMPLES: 83943 AND 83944
Results are within 1 standard deviation.

Q-C Sample#	Reported Value(R)	Actual Value(A)	Units	Ratio (R/A)	Std Dev	S-Code	Substance Name
83943	4850.100	4869.000	ug/sam	.9961	1	2020	Perchloroethylene (PERC)
83944	6291.300	6492.000	ug/sam	.9691	1	2020	Perchloroethylene (PERC)

The Quality Control limits are calculated based on 1, 2, and 3 STANDARD DEVIATIONS derived from historical data for a particular analyte. The MEAN values are adjusted to 1 in order to avoid any positive or negative bias.

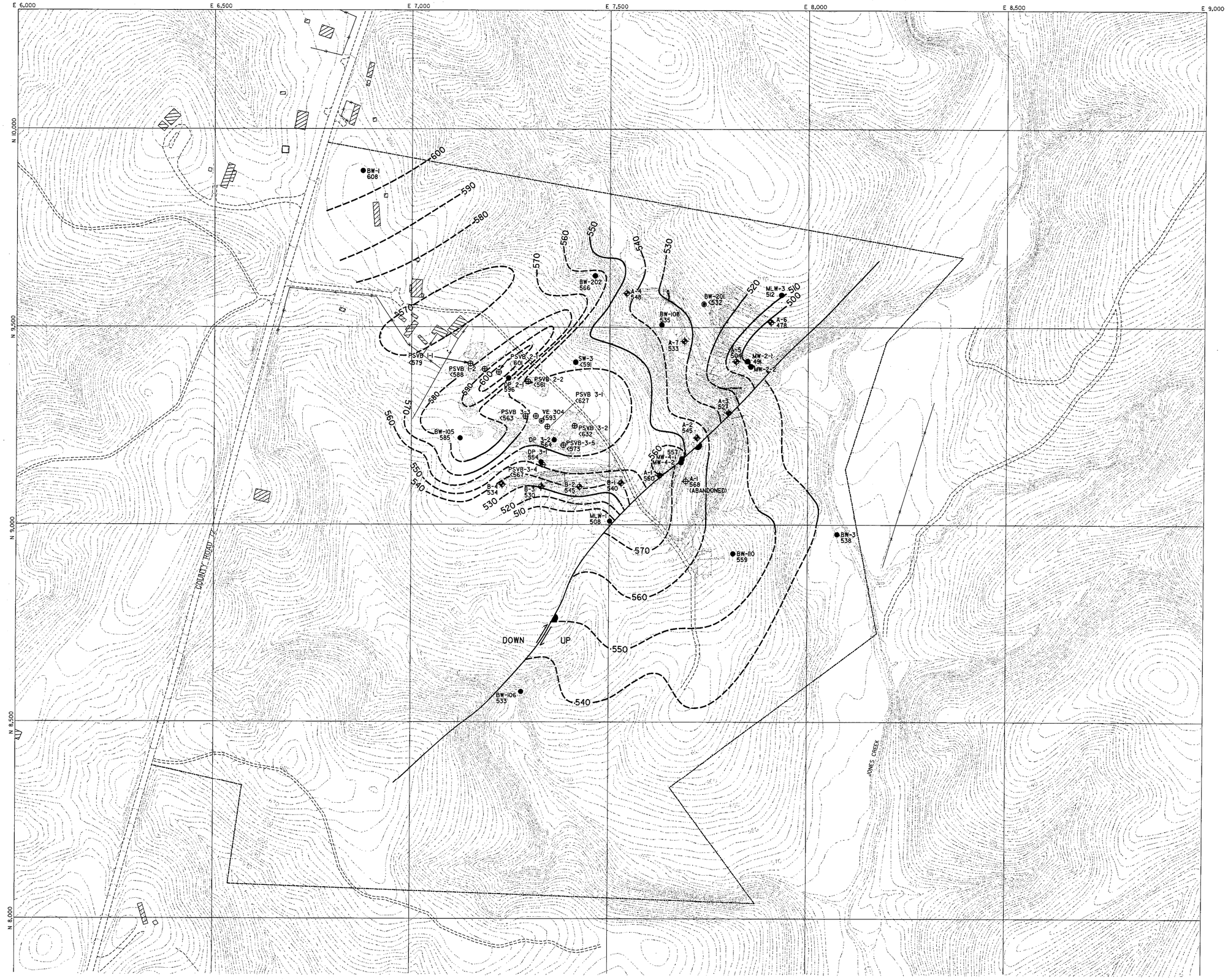
KEY : COLUMN HEADINGS

Q-C Sample# : Laboratory prepared Quality Control sample number.
Reported Value : Analyst's results.
Actual Value : Amount of analyte applied to the QC sample.
Ratio : Ratio of Reported/Actual.
Std Dev : Number of Standard Deviations from the MEAN value.
S-Code : Substance (analyte) code.

WOHL Study Limits (ug/sample)

Analyte	MDL	MQL
Ethylene Dichloride	3.9	7.8
Petroleum Distillates	1.2	2.4
Naphtha (Coal Tar)	1.2	2.4

hydro/938h/Feb2001.roc
3-2-01



LEGEND

⊕ PSVB-2-1 601	PSVB BORING WITH ELEVATION AT TOP OF BEDROCK
● DP-2-1 596	DUAL PHASE RECOVERY WELL WITH ELEVATION AT TOP OF BEDROCK
● BW-105 585.37	BEDROCK MONITORING WELL WITH ELEVATION AT TOP OF BEDROCK
◉ BW-201	TRANSITION ZONE MONITORING WELL
● MLW-1 508.00	MULTI-LEVEL MONITORING WELL WITH ELEVATION AT TOP OF BEDROCK
A-4 548.00	RECOVERY WELL (SYSTEM A) WITH ELEVATION AT TOP OF BEDROCK
B-3 530.00	RECOVERY WELL (SYSTEM B) WITH ELEVATION AT TOP OF BEDROCK
570	TOP OF BEDROCK CONTOUR LINE. CONTOUR INTERVAL IS 10 FEET.
DOWN 70 UP	TREND OF INFERRED FAULT W/DIP DIRECTION AND INCLINATION NOTED, AS WELL AS SENSE OF MOVEMENT
660	TOPOGRAPHIC INDEX CONTOUR
	PROPERTY LINE
	FENCE
	STREAM
	UNIMPROVED ROADS
	BUILDING
	FORMER DRUM DISPOSAL AREA OR LAGOON

0 100 200 300 400
SCALE IN FEET

HARRY H. MORRIS REGISTERED No. 2075 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

PROJECT MGR:	S. W. WEBB
PREPARED BY:	K.A. GILLION
DRAWN BY:	P.A. McDONALD
CHECKED BY:	H. H. MORRIS
APPROVED BY:	Harry H. Morris
APPROVED BY:	
APPROVED BY:	
DATE:	MARCH 2001
JOB NO:	938.91

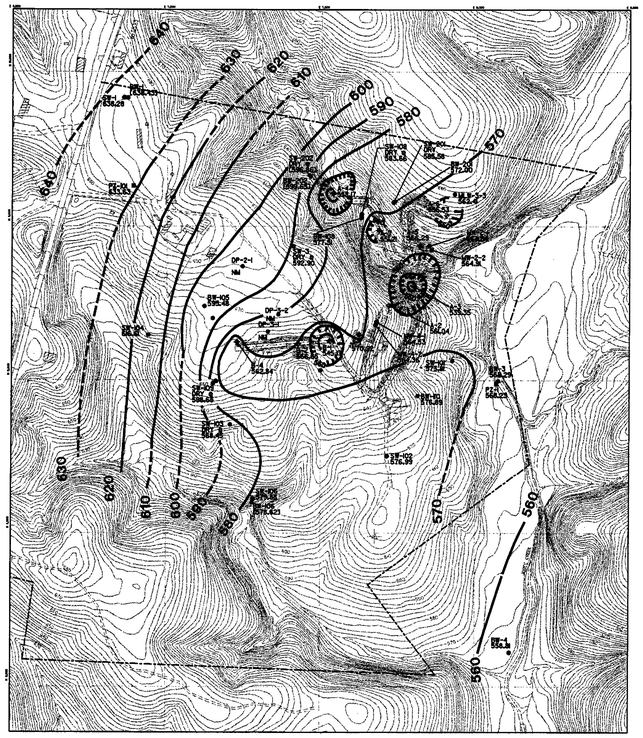
FMT
100 Verdae Boulevard
P.O. Box 16778
Greenville, SC 29606
(864) 281-0030

CONFIGURATION OF BEDROCK SURFACE

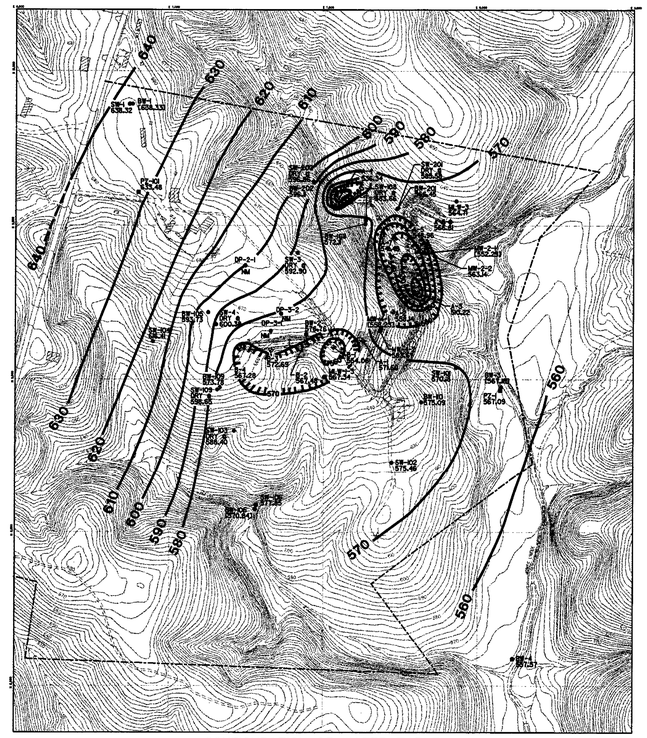
MEDLEY FARM SITE
GAFFNEY, SOUTH CAROLINA

SCALE		PLATE NO.
AS NOTED		1

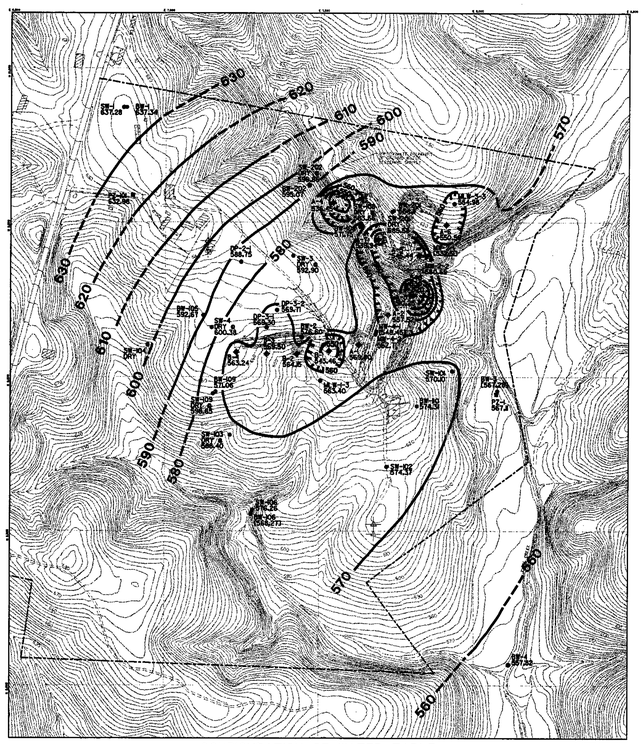
/usr3/hydro/938h/PLI-1-2001.WTB
PAM 3-2-2001



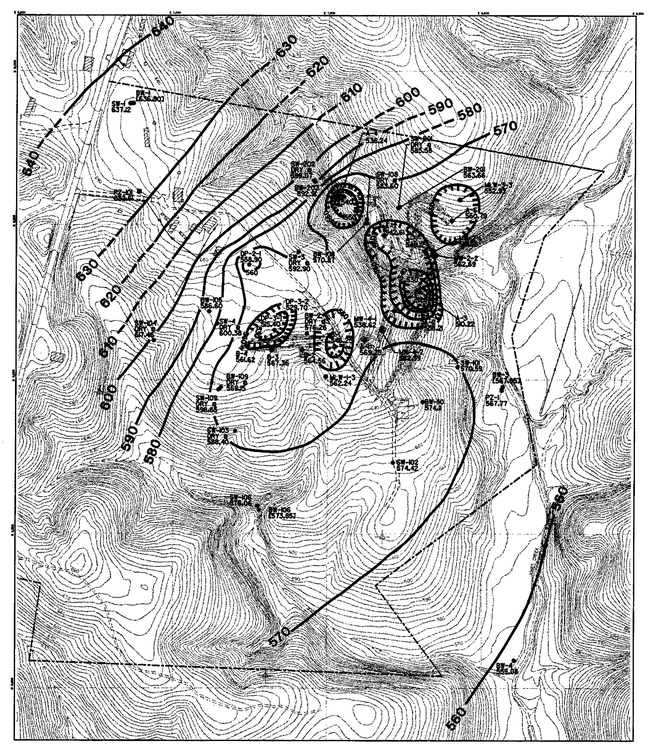
CONFIGURATION OF WATER TABLE
FEBRUARY 29, 2000
WITH SYSTEM A TURNED ON FOR 12 DAYS
AND SYSTEM B TURNED ON FOR 15 DAYS



CONFIGURATION OF WATER TABLE
JUNE 26, 2000
WITH SYSTEM A TURNED ON FOR 6 DAYS
AND SYSTEM B TURNED ON FOR 6 DAYS.



CONFIGURATION OF WATER TABLE
SEPTEMBER 22, 2000
WITH SYSTEM A TURNED ON FOR 10 DAYS
SYSTEM B TURNED ON FOR 17 DAYS AND
THE DP-WELLS NOT ON-LINE



CONFIGURATION OF WATER TABLE
DECEMBER 18, 2000
WITH SYSTEM A TURNED ON FOR 14 DAYS
AND SYSTEM B SHUT DOWN FOR 14 DAYS

0 200 400 600 800
SCALE IN FEET

LEGEND

DP-2-1	DUAL PHASE RECOVERY WELL
SW-109	SAPROLITE MONITORING WELL
BW-201	TRANSITION ZONE MONITORING WELL
BW-105	BEDROCK MONITORING WELL
MLW-1	MULTI-LEVEL MONITORING WELL
A-4	RECOVERY WELL (SYSTEM A)
B-3	RECOVERY WELL (SYSTEM B)
PZ-1	PIEZOMETER
570	WATER TABLE CONTOUR ELEVATION IN FEET ABOVE MEAN SEA LEVEL. CONTOUR INTERVAL IS 10 FEET. DASHED WHERE INFERRED.
660	TOPOGRAPHIC INDEX CONTOUR
	PROPERTY LINE
	FENCE
	STREAM
	UNIMPROVED ROADS
	BUILDING
	FORMER DRUM DISPOSAL AREA OR LAGOON
[578.18] BW-3	BEDROCK WELL POTENTIOMETRIC ELEVATIONS POSTED IN BRACKETS [ ] WERE NOT USED TO DEVELOP CONTOURED WATER TABLE SURFACE.
NM -	NOT MEASURED.

NOTES:

1. SITE TOPOGRAPHY COMPILED PHOTOGRAMMETRICALLY BY BELL MAPPING COMPANY, WINSTON-SALEM, NORTH CAROLINA (4-7-88). WITH THE EXCEPTION OF THE HC DESIGNATED POINTS AND WELL CLUSTERS SW/BW-201 AND SW/BW-202, ADDITIONAL INFORMATION (EXISTING DATA POINTS, PROPERTY BOUNDARY) WAS ADDED BY SIRRINE ENVIRONMENTAL CONSULTANTS, INC.

HARRY H. MORRIS
REGISTERED
No. 2075
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

PROJECT MGR:	S. W. WEBB
PREPARED BY:	W.R. SHARP
DRAWN BY:	P.A. McDONALD
CHECKED BY:	M.E. ROWAN
APPROVED BY:	Harry H. Morris
APPROVED BY:	
APPROVED BY:	
DATE:	MARCH 2001
JOB NO:	938.91

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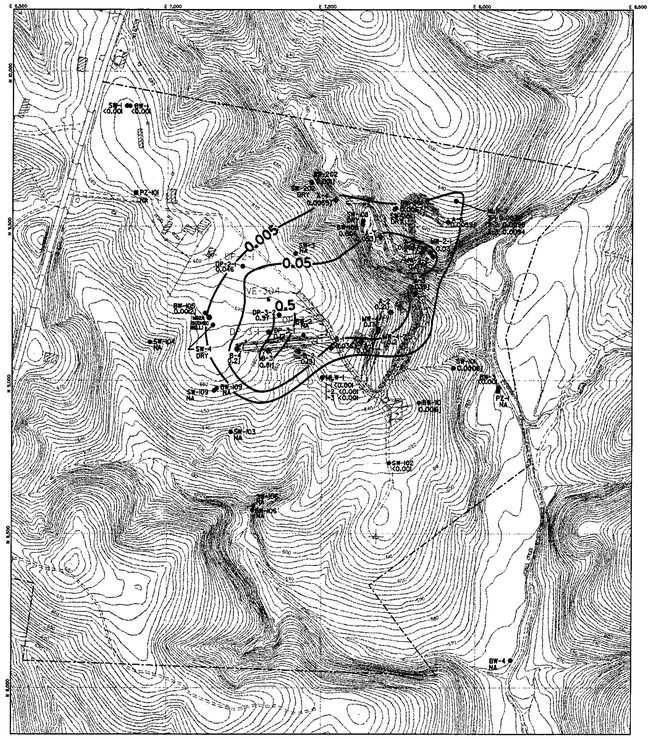
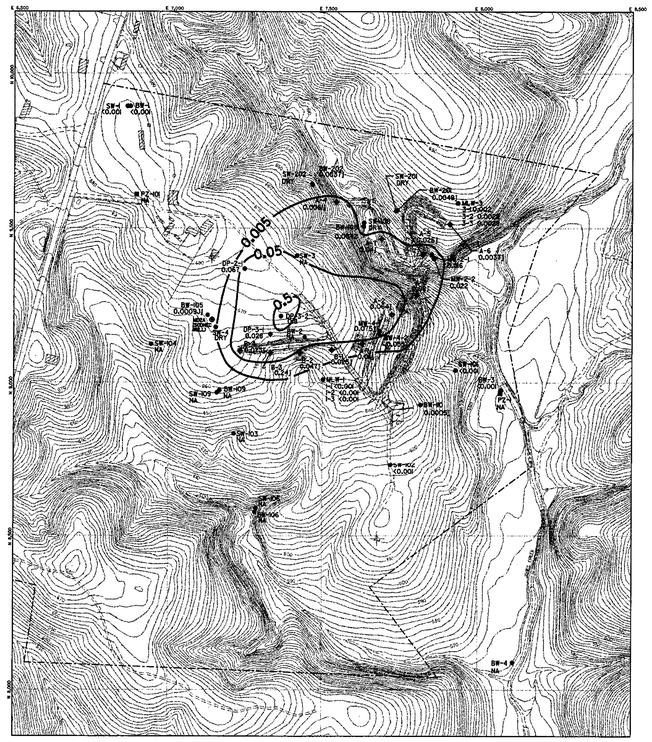
CONFIGURATION
OF WATER TABLE SURFACE
MEDLEY FARM SITE
GAFFNEY, SOUTH CAROLINA

SCALE		PLATE
AS NOTED		2

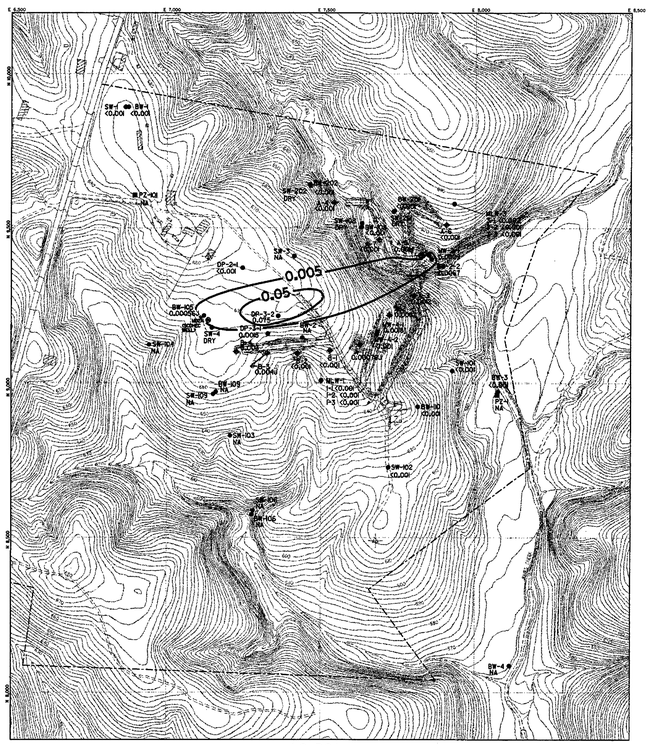
/usr3/hydro/938h/NOV2000.voc
PAM 3-2-01



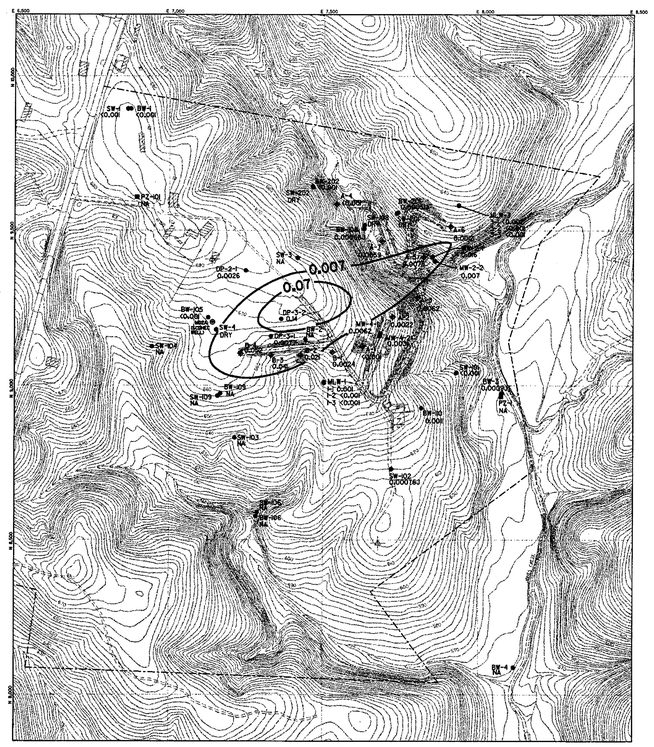
TCE
NOVEMBER 2000



PCE
NOVEMBER 2000



1,2-DCA
NOVEMBER 2000



1,1-DCE
NOVEMBER 2000

0 200 400 600 800
SCALE IN FEET

LEGEND

0.5	CONSTITUENT ISOCONCENTRATION CONTOUR OF CONCENTRATIONS FOUND IN TRANSITION ZONE AND SHALLOW BEDROCK CONCENTRATIONS ARE IN PARTS PER MILLION (ppm). CONTOUR INTERVAL AS SHOWN.
0.84	CONCENTRATION FOUND IN SAPROLITE
	CONCENTRATION FOUND IN TRANSITION ZONE OR SHALLOW BEDROCK
NA	NOT ANALYZED
J	QUANTITATIVE MASS SPECTRAL EVIDNECE OF ANALYTE PRESENT; CONCENTRATION BELOW REPORTING LIMIT
J	CONCENTRATION CONSIDERED AN ESTIMATE ON DATA VALIDATION.
DP-2-1	DUAL PHASE RECOVERY WELL
SW-109	SAPROLITE MONITORING WELL
BW-201	TRANSITION ZONE MONITORING WELL
BW-105	BEDROCK MONITORING WELL
MLW-1	MULTI-LEVEL MONITORING WELL
A-4	RECOVERY WELL (SYSTEM A)
B-3	RECOVERY WELL (SYSTEM B)
PZ-1	PIEZOMETER
660	TOPOGRAPHIC INDEX CONTOUR
	PROPERTY LINE
	FENCE
	STREAM
	UNIMPROVED ROADS
	BUILDING
	FORMER DRUM DISPOSAL AREA OR LAGOON

NOTES:

1. SITE TOPOGRAPHY COMPILED PHOTOGRAMMETRICALLY BY BELL MAPPING COMPANY, WINSTON-SALEM, NORTH CAROLINA (4-7-88). WITH THE EXCEPTION OF THE HC DESIGNATED POINTS AND WELL CLUSTERS SW/BW-201 AND SW/BW-202. ADDITIONAL INFORMATION (EXISTING DATA POINTS, PROPERTY BOUNDARY) WAS ADDED BY SIRRINE ENVIRONMENTAL CONSULTANTS, INC.

HENRY H. MORRIS REGISTERED PROFESSIONAL GEOLOGIST SOUTH CAROLINA

PROJECT MGR:	S. W. WEBB
PREPARED BY:	W.R. SHARP
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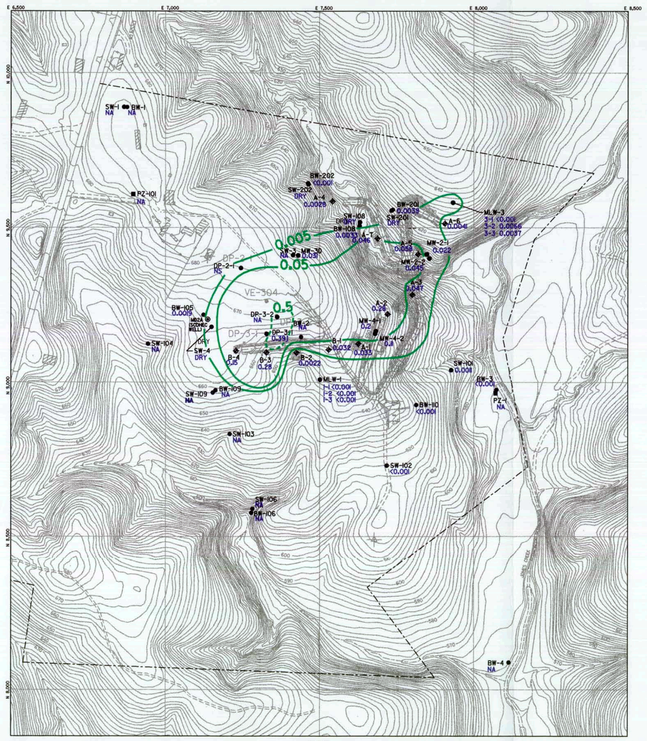
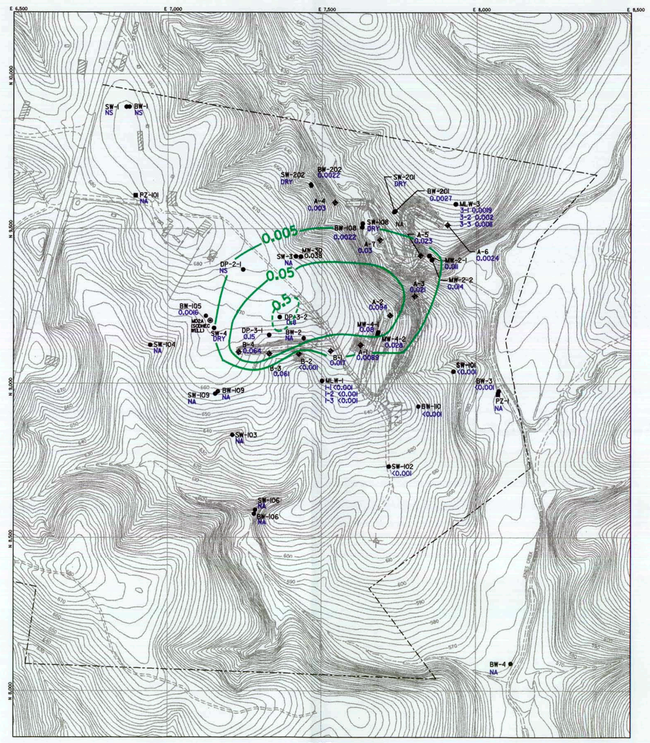
DISTRIBUTION OF VOCs
NOVEMBER 2000
MEDLEY FARM SITE
GAFFNEY, SOUTH CAROLINA

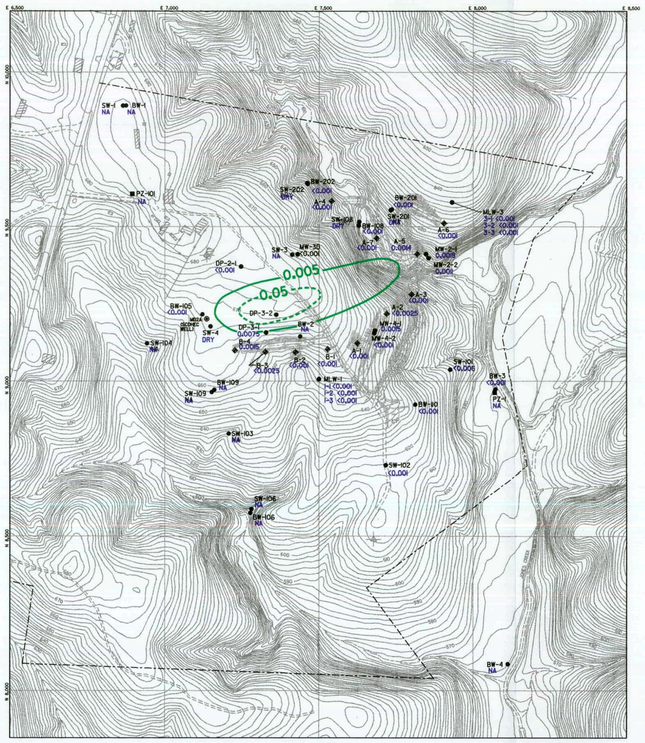
SCALE	PLATE NO.
AS NOTED	3



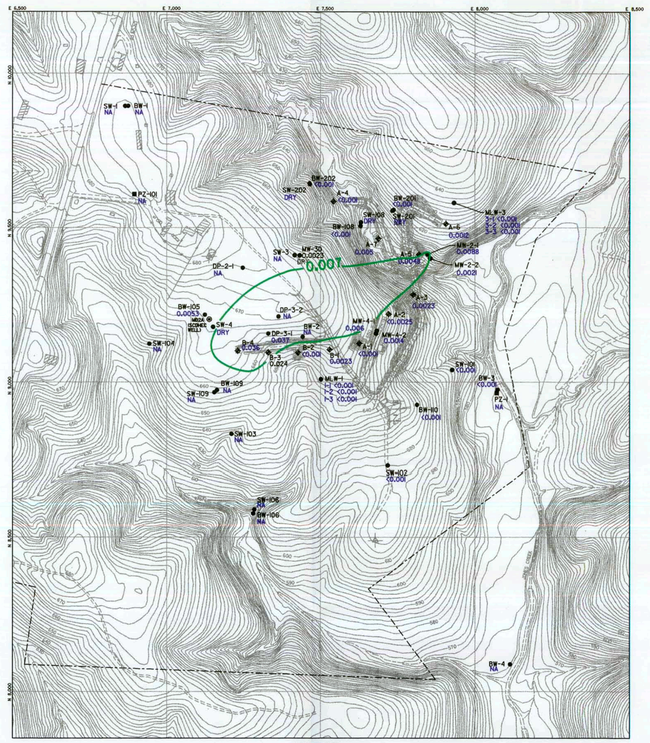
TCE
DECEMBER 2001



PCE
DECEMBER 2001



1,2-DCA
DECEMBER 2001



1,1-DCE
DECEMBER 2001

LEGEND

0.5	CONSTITUENT ISOCONCENTRATION CONTOUR OF CONCENTRATIONS FOUND IN TRANSITION ZONE AND SHALLOW BEDROCK CONCENTRATIONS ARE IN PARTS PER MILLION (ppm). CONTOUR INTERVAL AS SHOWN.
0.84	CONCENTRATION FOUND IN SAPROLITE
	CONCENTRATION FOUND IN TRANSITION ZONE OR SHALLOW BEDROCK
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J	QUANTITATIVE MASS SPECTRAL EVIDNECE OF ANALYTE PRESENT; CONCENTRATION BELOW REPORTING LIMIT
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660	TOPOGRAPHIC INDEX CONTOUR
	PROPERTY LINE
	FENCE
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0 200 400 600 800
SCALE: 1"= 200'

NO.	BY	DATE	REVISION	APP'D.
3.				
2.				
1.				

PROJECT:

MEDLEY FARM SITE
GAFFNEY, SOUTH CAROLINA

SHEET TITLE:

DISTRIBUTION OF VOCs
DECEMBER 2001

DRAWN BY: AHS	SCALE:	PROJ. NO.	71243.05
CHECKED BY: MER	AS NOTED	FILE NO.	DEC2001.VOC
APPROVED BY: HHM	DATE PRINTED:		
DATE: MARCH 11, 2002	MARCH 11, 2002		PLATE 2

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