MALCOLM PIRNIE

ANNUAL REPORT TREATMENT SYSTEM OPERATION, MAINTENANCE AND MONITORING

N.Y.S. Superfund Standby Contract Work Assignment #D002852-26 Roxy Cleaners, Site #4-42-024

New York State Department of Environmental Conservation
Division of Environmental Remediation

Prepared by:

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ANNUAL REPORT ON TREATMENT SYSTEM OPERATION, MAINTENANCE AND MONITORING

September 29, 1998 - September 28, 1999
Roxy Cleaners Site # 4-42-024
New York State Superfund Standby Contract
Work Assignment #D002852-26

Malcolm Pirnie, Inc.
December 20, 1999

GENERAL

The New York State Department of Environmental Conservation authorized Malcolm Pirnie, Inc. to perform Operation, Maintenance and Monitoring Services at the Roxy Cleaners Site by letter dated September 12, 1997. This annual report has been prepared in accordance with the approved Work Plan for this site. It discusses the performance and effectiveness of the remediation, describes the O&M tasks which are being performed and evaluates the O&M program. A summary of the last three quarterly status reports have been included as well as information on the operation of the last quarter (June 12, 1999 - September 28, 1999).

TREATMENT SYSTEM O&M ACTIVITIES

Weekly site inspections have been conducted by Star Environmental, subcontractor to Malcolm Pirnie, Inc. since the last week of September 1997. A site inspection form is filled in as part of each inspection. Operating conditions at the site and any routine maintenance conducted are recorded on this form. A summary of all the weekly inspections, maintenance and monitoring activities is presented in the Site Inspection Summary Table in Appendix A. A summary of all consumable supplies used during the year is also included in Appendix A.

SITE OPERATIONS DURING YEAR

A summary of the site operating parameters during the year is provided below:

1. The combined average pumping rate of the three recovery wells, RW-1, RW-2 and RW-3, is approximately 20 gpm. RW-1 was designed to pump at a rate of 0.5 gpm, but the yield of this well is not sufficient to maintain this pumping rate. The pump cycles off as the well is drawn down and comes on when the water level has recovered. When pumping, the flow rate from this well is approximately 0.4 gpm. The average pumping rate for the last quarter, as well as the year, was approximately 0.2 gpm. The original design pumping rate at RW-2 was 5.0 gpm. The actual

pumping rate for the last quarter was approximately 3.4 gpm and averaged 4.2 gpm for the year. The pumping rate at RW-3 averaged 16.3 gpm for the last quarter and 14.5 gpm for the year, while the design called for a rate of 16 gpm.

Some variations in pumping rates occur each week at RW-2 and RW-3 as a result of changes in the head losses across the filters on the pump discharge lines. As these water filters become clogged, the head loss across them increases and the pump discharge rates decrease. Therefore, it is usually necessary to open a throttling valve on the discharge line a slight amount each week to restore the pumping rate to something slightly greater than the design value. This compensates for the drop-off in flow rate that will occur over the following week. When the pressure drop across the filters approaches the point that a pump will not deliver its design flow, the filter is changed and the throttling valve is adjusted to create an artificial head loss sufficient to bring the pump discharge rate close to the design flow. The influent filters have been changed twice for RW-1 and RW-3 and once for RW-2 in the last quarter of this reporting period. RW-2 was down for a portion of the forth quarter so the filter did not need to be changed a second time. A total of 16 influent water filters have been replaced in the second year of plant operations.

2. The air filter on the blower intake has been replaced twice this quarter and 8 times for the year.

3. A slight organic odor had been noticed periodically near the duct heater in the system. A slight leak exists in the air duct where the electrical power cables connect to the in-line heater. Attempts have been made to completely seal this leak a number of times, but it appears to recur regularly. VOC levels in the treatment building remain at background when monitored with a photo ionization detector, even when a slight organic odor is noticeable, so the leak is not a cause for concern. However, the leak area will continue to be monitored to detect any signs that the volume of air escaping might be increasing.

4. On January, 5, 1999 the pump speed on RW-1 was slightly increased due to repeated shut downs during the first quarter. It is not recommended to run a pump at less than half of the design speed. However, due to the low yield of the well, the pump has been running at about 34 percent of full speed. This pump has not shut down on its own since pump speed was increased.

5. The air stripper was taken apart and cleaned on January 22, 1999. The trays did not contain much sediment and required only light cleaning and scraping of dried mineral deposits. The gaskets that separate each of the trays were inspected and, inasmuch as they had not been damaged during dismantling of the trays, were lubricated and re-used.

6. Three, 55-gallon size granular activated carbon filled drums are placed in series to clean the air exiting the air stripper. The carbon filters for the air system have been monitored, and three carbon filters have been replaced since the initial start up of the system. Two spent carbon drums and a drum of spent water filters were disposed of on March 15, 1999. The drums were delivered to Rineco, a hazardous waste landfill in Benton, AR.

7. On May, 8, 1999, the HNU photo ionizing detector that is used for monitoring air emissions from the carbon filters during weekly inspections, was cleaned and repaired. A MiniRae PID was used in its place for three weekly site inspections.

8. On June 7, 1999, the pump for RW-2 malfunctioned and the water level display on the control panel was inoperable. An attempt was made to re-start RW-2 manually but was unsuccessful. An initial inspection of the system did not resolve the problem, so an electrician was scheduled to investigate the problem at the site.

9. On July 8, 1999 the system was down on arrival. An attempt to start the system using the manual setting demonstrated that the booster blower was not running. In addition, the stripper was leaking and the control panel was displaying a high pressure condition for the blower system. The system was shut down and inspected, but the cause of the problem could not be identified. On July 12, 1999 a Malcolm Pirnie employee returned to the site with electricians from Goes Electric, to investigate the problems on the site. The electricians identified that a power cut off switch for the booster blower needed to be reset at the control panel. This cut off switch was possibly activated due to a power surge in the system. The pump and motor for RW-2 was pulled from the well and the motor was found to be damaged. A replacement motor was ordered.

10. On August 3, 1999 the pump motor for RW-2 was replaced and pumping in this well was resumed. The control panel display for the water depth of RW-2 was still inoperable. When this depth meter was installed, the depth to water was based on an arbitrary elevation. Since this measurement is not used for any calculations, and the automatic high and low water shut-offs are part of another electrical circuit, this water depth meter has not been replaced.

11. On September 28, 1999 the system was shut down on arrival. The system was inspected and re-started. No cause for the automatic shut down was identified but it is possible that it resulted from a power outage a day or so before the inspection took place.

MONITORING ACTIVITIES

1. **Discharge (SPDES) Sampling and Analysis:** Starting October 7, 1997 samples of the treatment system effluent have been taken on a monthly basis from the discharge of the stripper and analyzed at the New York State Department of Health laboratory. Ten consecutive weekly sampling events were conducted during plant startup and prior to the approval of Malcolm Pirnie's Work Assignment. The contaminant values for the effluent have not exceeded that of the stated discharge limitations, so the monitoring continues to be a monthly event. The results of all effluent sample analyses are included in Appendix B.

   The NYSDOH analyses the water samples using the TOC-VOC-W method instead of the EPA methods described in the Work Plan. Some contaminants required by the SPDES permit are being left out of the analyses. The NYSDEC Project Manager has been notified of this situation.

2. **Treatment System Influent Sampling and Analysis:** Samples were collected from the influent pipelines from each of the three wells and the combined influent header pipe for 10 consecutive weeks during plant startup in the Spring of 1997 and monthly for the first 6 months following authorization of this Operations, Maintenance and Monitoring Work Assignment. At the end of the first 6 months, the monthly sampling was decreased to once every three months in accordance with the DEC approved Work Plan. These samples provide a basis for determining the mass of contaminants recovered from the groundwater at the three wells and are also used in determining the removal efficiency of the shallow tray treatment system. The results of these analyses are included in Appendix B.

3. **Recovery Well System Evaluation**: The results of the sampling and analyses were evaluated to determine the amount of contaminates removed from the groundwater by the three recovery wells and to graph the trends in recovery well contaminate concentrations. Over the second full year of operation, 1,2 Dichloroethene (DCE) has been removed at an average rate of 13.9 grams/week, Trichloroethene (TCE) 4.15 grams/week and Tetrachloroethene (PCE) 217.15 grams/week. This contaminant recovery is similar to the fourth quarters results of 17.42 grams/week, 4.15 grams/week, and 244.64 grams/week respectively. The amount of contaminates removed and concentration trends for the various contaminants are included in Appendix C.

   Total Contaminant Recovery: The overall mass of contaminants (1,2 DCE, TCE, PCE) recovered from the groundwater between September 29, 1998 - September 28, 1999 has been approximately 11.42 kg, 94 percent of which is PCE. The total recorded removal for two years of operations is 29.64 kg. This information is summarized in the Contaminant Recovery Summary in Appendix C.

RW-1: In the past, analytical analysis for RW-1 has demonstrated that it has the greatest average concentration of contamination. Contaminate concentrations in RW-1 have been approximately twice as high as RW-2 and RW-3. However, this year the contaminant concentration decreased from approximately 900 µg/l in the first quarter to 250 µg/l in the fourth quarter. This is approximately a 72 percent reduction. This well has a very low recovery rate, and therefore, a very low yield. This well has recovered approximately 0.20 kg, or 2 percent, of the total contaminants removed over the last year.

RW-2: The pump motor burned out in this well during June 1999 so it did not contribute any flow to the system for approximately eight weeks. Contaminant concentration and removal for this well have remained fairly constant throughout the past year. The contaminant concentration started at 357 µg/l in the first quarter, decreased to 316 µg/l in the second quarter and has remained at approximately the same concentration for the remaining year. The removal for this well was approximately 2.65 kg, or 30 percent, of the total contaminants removed over the last year.

RW-3: The contaminant concentration in this well averaged 339 µg/l for the first quarter, had dropped to 227 µg/l by the third quarter, and then crept back up to 380 µg/l during the last quarter. The pumping rate at RW-3 is much higher than the other wells and, therefore, the greatest recovery of contaminants has occurred at this well. During the last year of operations RW-3 has removed approximately 68 percent of the total contaminants removed.

4. **Monitoring Well Sampling and Analyses**: The NYSDEC has organized a team to sample and arrange for analyses of monitoring wells at the Roxy Site. Samples of water from the monitoring wells 103A, 107, 107A, 111, 2, 2B, 108, 108A, 105, 105A and 104 are collected and analyzed every 6 months. Samples were collected in July, and November of 1997 and 1998. Monitoring wells 3, 3B, 106, 106A, and 109 are collected once a year and have been collected July of 1997, 1998, and 1999 and July of 1998.

   A monitoring well contamination summary has been included in Appendix D. The monitoring well that showed the greatest contamination level was MW-103A. This well is located adjacent to the RW-1. The amount of PCE in this recovery well has decreased from 3200 ppb to 690 ppb since July of 1997. The amount of 1,2 Dichloroethene and Trichloroethene has stayed about the same. Monitoring wells 111, 107, 107A, and 2 have all maintained approximately the same contamination level for all three target contaminants. The rest of the monitoring wells have not displayed any contamination. Figure 1 in Appendix D displays the location and contamination range of each of the monitoring wells tested.

5. **Monitoring Recovery Well Capture Zones:** Beginning on November 5, 1997, groundwater elevations have been measured to insure that the cones of influence

created by the recovery wells are maintained. The overburden wells were used to create water elevation contour maps. Group A Wells were measured at one month intervals for the first six months and then quarterly thereafter; group B Wells have been measured quarterly. Maps for the last year of measurements are included in Appendix E.

Monitoring well PZ-4 has not been included in the determination of the groundwater contours because its water surface elevation is 15 ft. higher than the other wells in the same vicinity. A possible cause for this anomaly could be the presence of a water main trench which passes within a few feet of this well. The stone bedding around the water pipe may be conveying water and increasing groundwater recharge at the well location.

The groundwater contour maps indicate that the recovery wells are, indeed, capturing the majority of the contaminated plume at the site.

CONCLUSIONS

The system continues to function properly and is effectively removing the target contaminants Perchloroethene, Trichloroethene and 1,2 Dichoroethene from the recovery wells. The removal of these contaminants has been in the range of 97.27 and 99.99 percent, which is well below the State Pollution Discharge Elimination Limits required in the NYSDEC approved Work Plan. The contaminants concentration in each of the wells has dropped off since the start of operation in 1997 and has continued to drop during this reporting year.

Monitoring wells are sampled on a annual and semi-annual basis by the NYSDEC. The analytical results from the water sampling demonstrate that many of the wells from the spill location are not displaying any contamination, and have not displayed any contamination for over two years, and five sampling events. Since the potentiometric maps display that the recovery wells are effectively capturing the plume, the NYSDEC may wish to limit sampling to an annual event.

APPENDIX A

Site Inspection Summaries

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330

CONSUMABLE SUPPLIES USED

September 29, 1998 - September 28, 1999

ITEM	Quantity Used	DESCRIPTION
Water Filters TOTAL	16	50 Micron, Polypropylene Filter
Water Filters RW1	*5*	
Water Filters RW2	*5*	
Water Filters RW3	*6*	
Air Filters	8	10 Micron, Polyester Filter
Carbon Drums	2	200 Lb., GAC Canisters
Control Panel Light Bulbs	6	Control Panel Bulbs, 24 V

Miscellaneous Supplies Include, but are not limited to: Bailer cord and tubing, buckets, paper towels, polyethylene sheets, logbooks, clear tape, zip lock bags, disposable cameras, film developing, cleaning supplies for the air stripper, Hnu calibration gas.

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	09/30/1997	10/07/1997	10/14/1997	10/21/1997	10/28/1997	11/04/1997	11/11/1997	11/18/1997	11/25/1997	12/02/1997	12/09/1997	12/16/1997	12/23/1997
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-1 Flow Totalizer Reading (gal)	4.4	68601.1	71285.4	74091.1	76650.1	79222.2	81862.3	84082.3	86565.7	88250.6	89317.6	90996.2	92133.7
2nd Totalizer Reading (gal)	4.7	68606.8	71289.2	74097.8	76656	79226.1	81866	84088.3	86570.6	88255.2	89322.5	90999.1	92139.8
Gallons Pumped	0.3	5.7	3.8	6.7	5.9	3.9	3.7	6	4.9	4.6	4.9	2.9	6.1
Time Elapsed (min)	1	20	12	13	12	9	10	15.83	14	14	16.5	10	21
Flow Rate (gpm)	0.30	0.28	0.32	0.52	0.49	0.43	0.37	0.38	0.35	0.32	0.30	0.29	0.29
RW-1 Pressure Before Filter (psi)	30	29	27	24	27	24	22	24	24	23	23	24	21
RW-1 Pressure After Filter (psi)	29	28	26	22	26	23	22	23	23	22	22	24	20
RW-1 Filter Changed? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-1 Pump Speed Setting	69.5		69.5	69.5	69.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
RW-1 Well Level Reading	19.5	10	9.5	8.5	9.5	8	8.5	10	9	9	9	9.5	8.5
RW-1 Flow Valves Adjusted? Y/N	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO
RW-1 Pump Speed Adjusted? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Operating? Y/N	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)		53678.5	567530.5	634126	693052.1	747134.5	813650.5	868400	927600	986221.5	1045948.1	1104308	1157800
2nd Totalizer Reading (gal)		53686.5	567556.8	634160	693117.7	747234	813754	868517.4	927748.8	986355.5	1046058.8	1104392	1157948.1
Gallons Pumped		8	26.3	34	65.6	99.5	103.5	117.4	148.8	134	110.7	84	148.1
Time Elapsed (min)		22	6	7	13	17	16	20	24	23	19	17	27
Flow Rate (gpm)		0.36	4.38	4.86	5.05	5.85	6.47	5.87	6.20	5.83	5.83	4.94	5.49
RW-2 Pressure Before Filter (psi)		45	25	41	18	20	36	43	43	43	43	35	42
RW-2 Pressure After Filter (psi)		8	28	44	20	22	38	44	45	45	45	38	44
RW-2 Filter Changed? Y/N		NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO
RW-2 Pump Speed Setting			95	89	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
RW-2 Well Level Reading	10	9.5	9.5	9.5	9	9.5	10	10	10	10.5	10.5	10.5	10
RW-2 Flow Adjustment? Y/N	YES	NO	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO
RW-2 Speed Adjusted? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)						3080439.1	3242930.2	3396590	3559989	3721538.1	3885360	4046078	4208620
2nd Totalizer Reading (gal)						3080530.2	3243213.1	3396917.4	3560420	3721924.4	3885677.7	4046324	4209054.1
Gallons Pumped						91.1	282.9	327.4	431	386.3	317.7	246	434.1
Time Elapsed (min)						6	18	20	27	24	19	17	27
Flow Rate (gpm)						15.18	15.72	16.37	15.96	16.10	16.72	14.47	16.08
RW-3 Pressure Before Filter (psi)						20	20	17	18	18	18	18	18
RW-3 Pressure After Filter (psi)						8	8	10	10	10	11	10	10
RW-3 Filter Changed? Y/N						YES	NO	NO	NO	NO	NO	YES	NO
RW-3 Pump Speed Setting						110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading						14.9	14.7	14	14.3	14.7	14.7	14.1	13.9
RW-3 Flow Adjustment? Y/N						YES	NO	NO	NO	NO	YES	YES	NO
RW-3 Speed Adjusted? Y/N						NO	NO	NO	NO	NO	NO		NO

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	12/30/1997	01/06/1998	01/13/1998	01/20/1998	01/27/1998	02/05/1998	02/10/1998	02/17/1998	02/24/1997	03/03/1998	03/10/1998	03/17/1998	03/24/1998
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-1 Flow Totalizer Reading (gal)	94149.1	94743.6	97055.7	99751.3	102266	104483.6	106748.3	109007.3	111171.3	113019.5	115502.1	117654.7	119012
2nd Totalizer Reading (gal)	94154.5	94747.4	97062	99760.8	102271.2	104490.1	106752.7	109014.4	111177.1	113023.8	115508.8	117658.4	119016.1
Gallons Pumped	5.4	3.8	6.3	9.5	5.2	6.5	4.4	7.1	5.8	4.3	6.7	3.7	4.1
Time Elapsed (min)	18	10	23	27	10	17	12	18	12	11	17	10	10
Flow Rate (gpm)	0.30	0.38	0.27	0.35	0.52	0.38	0.37	0.39	0.48	0.39	0.39	0.37	0.41
RW-1 Pressure Before Filter (psi)	24	27	17	22	18	19	20	20	14	20	18	18	22
RW-1 Pressure After Filter (psi)	24	26	16	22	18	19	20	20	14	20	18	18	22
RW-1 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO
RW-1 Pump Speed Setting	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
RW-1 Well Level Reading	9.5	32.5	9.5	8.5	9.5	9.5	9.5	8.5	9.5	9	9.5	10	8.5
RW-1 Flow Valves Adjusted? Y/N	NO	NO	NO	YES	YES	NO	NO	NO	YES	NO	NO	NO	NO
RW-1 Pump Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES
RW-2 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)	1214111.1	1227001.2	1278266.2	1331323.5	1371890.3	1413999	1456914.2	1499782.3	1540971	1575855.8	1623064.9	1664547.8	1690281.8
2nd Totalizer Reading (gal)	1214247.1	1227050	1278491.8	1331477	1371953.3	1414117.2	1457045	1499912.2	1541041.3	1575941.5	1623322.5	1664634.1	1690363
Gallons Pumped	136	48.8	125.6	153.5	63	127.2	130.8	129.9	70.3	85.7	257.6	86.3	81.2
Time Elapsed (min)	24	11	24	28	15	30	31	31	20	21	61	21	12
Flow Rate (gpm)	5.67	4.44	5.23	5.48	4.20	4.24	4.24	4.19	3.50	4.08	4.22	4.11	6.77
RW-2 Pressure Before Filter (psi)	44	44	50	43	45	45	45	45	36	41	41	41	11
RW-2 Pressure After Filter (psi)	46	46	54	46	48	48	49	49	39	44	44	42	14
RW-2 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO
RW-2 Pump Speed Setting	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
RW-2 Well Level Reading	10	11	11	10.5	10.5	10.5	10	10	10.5	10.5	11	10.5	11
RW-2 Flow Adjustment? Y/N	YES	YES	NO	YES	YES	NO	NO	NO	YES	NO	NO	NO	YES
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)	4369259.2	4411806.5	4574728.1	4737372.5	4897968.5	5062461.4	5229189.8	5395290	5556114.5	5696835.8	5881600.9	6042868.5	6145828.2
2nd Totalizer Reading (gal)	4369631.3	4411968.5	4575106.8	4737827.1	4898199.5	5062964	5229685.1	5395794.8	5556449.8	5697174.8	5882596.5	6043226.5	6146412.5
Gallons Pumped	372.1	162	378.7	454.6	231	502.6	495.3	504.8	335.3	339	995.6	358	584.3
Time Elapsed (min)	24	10	24	28	14	31	31	31	20	21	60	23	36
Flow Rate (gpm)	15.50	16.20	15.78	16.24	16.50	16.21	15.98	16.28	16.76	16.14	16.59	15.57	16.23
RW-3 Pressure Before Filter (psi)	18	18	19	18	18	19	19	19	19	19	19	19	19
RW-3 Pressure After Filter (psi)	10	10	10	10	10	10	10	10	10	11	11	11	11
RW-3 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading	14	29.3	14.9	14.3	13.9	13.8	13.9	13.9	14	14.5	14.8	14.2	14.3
RW-3 Flow Adjustment? Y/N	NO	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	03/30/1998	04/06/1998	04/14/1998	04/21/1998	04/29/1998	05/05/1998	05/13/1998	05/18/1998	05/26/1998	06/02/1998	06/09/1998	06/16/1998	06/22/1998
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-1 Flow Totalizer Reading (gal)	120877.8	122870.7	125044.2	126980.7	129540.1	131171.1	133466	133473	134615.8	136765.4	138922.5	140949.9	142852.3
2nd Totalizer Reading (gal)	120883.8	122876.4	125049.4	126985.9	129544.7	131176.5	133471.4	133482.3	134637.3	136769.8	138926.8	140954.2	142856.7
Gallons Pumped	6	5.7	5.2	5.2	4.6	5.4	5.4	9.3	21.5	4.4	4.3	4.3	4.4
Time Elapsed (min)	22	16	16	15	5	12	11	15	32	6	4	5	5
Flow Rate (gpm)	0.27	0.36	0.32	0.35	0.92	0.45	0.49	0.62	0.67	0.73	1.07	0.86	0.88
RW-1 Pressure Before Filter (psi)	19	19	20	12	14	16	18	12	15	10	7	6	6
RW-1 Pressure After Filter (psi)	18	18	18	11	12	14	16	10	15	10	6	6	5
RW-1 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO
RW-1 Pump Speed Setting	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
RW-1 Well Level Reading	9.5	8.5	8.5	9	8.5	10	9.5	14	9	9	9.5	9	10
RW-1 Flow Valves Adjusted? Y/N	NO	YES	NO	NO	YES	NO	YES	NO	YES	NO	NO	NO	NO
RW-1 Pump Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO
RW-2 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)	1758378.5	1851633.8	1920053.8	1983488.5	2054751	2105729.5	2175953.8	2215378.1	2280800	2332734.5	2395741.5	2453321.5	2504356.5
2nd Totalizer Reading (gal)	1758495.3	1851746	1920222.8	1983810	2054899.8	2105916.5	2176085.6	2215531	2280883.4	2332825.5	2395911.5	2453466	2504536.9
Gallons Pumped	116.8	112.2	169	321.5	148.8	187	131.8	152.9	83.4	91	170	144.5	180.4
Time Elapsed (min)	14	18	27	52	23	31	22	26	16	14	28	25	32
Flow Rate (gpm)	8.30	6.23	6.26	6.18	6.47	6.03	5.99	5.88	5.21	6.50	6.07	5.78	5.64
RW-2 Pressure Before Filter (psi)	15	23	43	37	39	39	38	37	33	23	23	19	19
RW-2 Pressure After Filter (psi)	15	23	44	39	42	41	40	38	35	24	24	22	22
RW-2 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO
RW-2 Pump Speed Setting	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
RW-2 Well Level Reading	10	9.5	10	10	10	10	10.5	10	10	10	9.5	10	10.5
RW-2 Flow Adjustment? Y/N	NO	YES	NO	NO	NO	NO	NO	YES	YES	YES	NO	YES	YES
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)	6291090	6452878.1	6633516.5	6796420.7	6984414.9	7116800.2	7302033.3	7407533.2	7586677.5	7749922	7916238.8	8070013.5	8210368
2nd Totalizer Reading (gal)	6291315	6453249.8	6633936.8	6797257.5	6984761.4	7117285.8	7302362.5	7407936.2	7586925.1	7750232	7916675.5	8070413.5	8210876
Gallons Pumped	225	371.7	420.3	836.8	346.5	485.6	329.2	403	247.6	310	436.7	400	508
Time Elapsed (min)	14	23	26	52	22	31	21	26	16	19	28	25	32
Flow Rate (gpm)	16.07	16.16	16.17	16.09	15.75	15.66	15.68	15.50	15.47	16.32	15.60	16.00	15.88
RW-3 Pressure Before Filter (psi)	18	19	19	22	22	22	23	23	19	19	19	19	19
RW-3 Pressure After Filter (psi)	10	12	11	12	10	10	12	12	12	12	12	12	12
RW-3 Filter Changed? Y/N	NO	YES	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading	14.1	13.6	13.4	13.7	13.7	13.7	14.1	13.8	13.4	12.6	12.3	13.1	13.1
RW-3 Flow Adjustment? Y/N	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	06/30/1998	07/07/1998	07/15/1998	07/20/1998	07/29/1998	08/03/1998	08/10/1998	08/17/1998	08/25/1998	08/31/1998	09/08/1998	09/15/1998	09/22/1998
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-1 Flow Totalizer Reading (gal)	145350.1	147422	148234.6	149854.9	152442	153902.1	155956.3	158029.7	160000.9	161988.2	164335.9	166343.2	168292
2nd Totalizer Reading (gal)	145354.4	147426.4	148267	149859.2	152446.2	153903.8	155960	158034.2	160005.3	161992.6	164340.4	166347.7	168296.3
Gallons Pumped	4.3	4.4	32.4	4.3	4.2	1.7	3.7	4.5	4.4	4.4	4.5	4.5	4.3
Time Elapsed (min)	6	5	26	4	4	9	1	5	5	5	6	6	6
Flow Rate (gpm)	0.72	0.88	1.25	1.08	1.05	0.19	3.70	0.90	0.88	0.88	0.75	0.75	0.72
RW-1 Pressure Before Filter (psi)	6	6	8	7	6	8	48	6	6	6	6	6	6
RW-1 Pressure After Filter (psi)	5	5	8	6	5	7	44	5	5	5	5	5	5
RW-1 Filter Changed? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-1 Pump Speed Setting	68.5	68.5	68.5	68.5	68.5	113	113	68.5	68.5	68.5	68.5	68.5	68.5
RW-1 Well Level Reading	10	10	10	9.5	10	10	10	10	10	10	10.5	10	10.5
RW-1 Flow Valves Adjusted? Y/N	NO	NO	YES		NO	YES	NO	NO	NO	NO	NO	NO	NO
RW-1 Pump Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
RW-2 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)	2570801.8	2628041.8	2650637	2701557	2788763.8	2836931.7	2904850.3	2969547.5	3032513.5	3093922.5	3167152.1	3228565.5	3285852.4
2nd Totalizer Reading (gal)	2570915.7	2628162.5	2650687.5	2701671	2789073.5	2837104.8	2904960.8	2969673.6	3032645	3094108.1	3167004.3	3228778.8	3286074.2
Gallons Pumped	113.9	120.7	50.5	114	309.7	173.1	110.5	126.1	131.5	185.6	147.8	213.3	221.8
Time Elapsed (min)	20	21	8	18	47	26	17	20	22	31	24	36	40
Flow Rate (gpm)	5.70	5.75	6.31	6.33	6.59	6.66	6.50	6.31	5.98	5.99	6.16	5.92	5.55
RW-2 Pressure Before Filter (psi)	19	19	16	15	15	15	15	14	13	13	14	13	15
RW-2 Pressure After Filter (psi)	22	22	18	16	16	16	16	16	15	15	15	14	14
RW-2 Filter Changed? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Pump Speed Setting	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
RW-2 Well Level Reading	10.5	10.5	10.5	9.5	9.5	9.5	9.5	9.5	9	9.5	9	9	9
RW-2 Flow Adjustment? Y/N	YES	YES	YES		NO	YES	NO	NO	NO	YES	YES	YES	YES
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)	8397012	8553827.5	8615334	8738441	8938600	9050690	9214820	9373947	9530173.3	9687595.8	9876464	38026	212942
2nd Totalizer Reading (gal)	8397330	8554160.1	8616130	8738717	8939347	9051103	9215088.2	9374260	9530530.3	9687833	9876846.9	38590.5	213148
Gallons Pumped	318	332.6	796	276	747	413	268.2	313	357	237.2	382.9	564.5	206
Time Elapsed (min)	20	21	50	17	48	26	17	20	23	15	24	36	13
Flow Rate (gpm)	15.90	15.84	15.92	16.24	15.56	15.88	15.78	15.65	15.52	15.81	15.95	15.68	15.85
RW-3 Pressure Before Filter (psi)	19	19	19	19	20	20	20	19	20	20	19	18	19
RW-3 Pressure After Filter (psi)	12	12	12	12	12	12	11	11	11	11	11	11	12
RW-3 Filter Changed? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading	12.9	12.9	12.9	12.8	12	12	11.9	12	12.1	11.7	11.5	11.8	11.4
RW-3 Flow Adjustment? Y/N	YES	YES	YES		YES	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	09/29/1998	10/07/1998	10/13/1998	10/19/1998	10/27/1998	11/03/1998	11/10/1998	11/17/1998	11/24/1998	12/01/1998	12/08/1998	12/15/1998	12/22/1998
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
RW-1 Flow Totalizer Reading (gal)	170180.8	172456.8	174238.8	175962.9	178178.5	180178.5	180938.9	181838.1	183858.3	185857.4	188763.4	189931.3	0
2nd Totalizer Reading (gal)	170184.2	172461.2	174243.1	175966.8	178182.7	180183.2	180943.2	181863.3	183862.6	185861.6	188767.8	189934.9	0
Gallons Pumped	3.4	4.4	4.3	3.9	4.2	4.7	4.3	25.2	4.3	4.2	4.4	3.6	0
Time Elapsed (min)	5	4	5	4	4	4	4	18	4	4	3	3	0
Flow Rate (gpm)	0.68	1.10	0.86	0.97	1.05	1.18	1.08	1.40	1.08	1.05	1.47	1.20	0
RW-1 Pressure Before Filter (psi)	5	5	5	5	5	5	7	7	5	5	4	5	0
RW-1 Pressure After Filter (psi)	4	4	4	4	4	4	7	6	4	4	4	4	0
RW-1 Filter Changed? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO
RW-1 Pump Speed Setting	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
RW-1 Well Level Reading	10.5	10.5	10.5	10.5	10.5	10.5	25	18	10.5	10.5	10.5	10.5	31.5
RW-1 Flow Valves Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES
RW-1 Pump Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)	3337628	3406995	3461697.9	3513731	3581667	3644390	3667107	3693561	3752681	3812575	3894125.4	3920590.3	3979784.5
2nd Totalizer Reading (gal)	3337761	3407147.2	3461788	3513806	3581879.5	3644566	3667287	3693656.3	3752963.1	3812687.3	3894239.7	3920702.2	3979994.5
Gallons Pumped	133	152.2	90.1	75	212.5	176	180	95.3	282.1	112.3	114.3	111.9	210
Time Elapsed (min)	27	25	15	13	35	27	35	20	48	19	23	20	38
Flow Rate (gpm)	4.93	6.09	6.00	5.77	6.07	6.52	5.14	4.76	5.88	5.91	4.97	5.60	5.53
RW-2 Pressure Before Filter (psi)	14	10	10	10	10	10	8	8	8	10	17	5	5
RW-2 Pressure After Filter (psi)	11	12	12	12	12	12	10	10	8	8	8	8	8
RW-2 Filter Changed? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO
RW-2 Pump Speed Setting	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
RW-2 Well Level Reading	9.5	9	9.5	9.5	9	9	9.5	9.5	9	9.5	9.5	9	9.5
RW-2 Flow Adjustment? Y/N	YES	NO	NO	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)	350787	536853.5	680729.5	819070.5	999026.5	1160006.5	1218155.5	1290923.9	1448255.5	1608019.2	1838397.4	1931206.5	2095052
2nd Totalizer Reading (gal)	351233.5	537255	680953.5	819313	999577.5	1160416.5	1218721	1291274	1449010.9	1608321.8	1838760.5	1931510	2095654.5
Gallons Pumped	446.5	401.5	224	242.5	551	410	565.5	350.1	755.4	302.6	363.1	303.5	602.5
Time Elapsed (min)	28	25	15	15	35	26	36	22	48	19	23	21	38
Flow Rate (gpm)	15.95	16.06	14.93	16.17	15.74	15.77	15.71	15.91	15.74	15.93	15.79	14.45	15.86
RW-3 Pressure Before Filter (psi)	19	20	20	19	20	20	20	19	19	19	19	18	18
RW-3 Pressure After Filter (psi)	11	12	12	12	12	12	12	11	11	10	10	9	11
RW-3 Filter Changed? Y/N	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading	11.4	11.4	11.9	11.9	11.8	11.7	15.6	12.4	12	12	12	13.5	11.9
RW-3 Flow Adjustment? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	12/29/1998	01/05/1999	01/12/1999	01/19/1999	01/26/1999	02/02/1999	02/11/1999	02/16/1999	02/24/1999	03/03/1999	03/09/1999	03/16/1999	03/23/1999
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-1 Flow Totalizer Reading (gal)	193317.8	194619.3	196571.4	197072.9	199210.2	201238.2	203798.3	205160.3	207292.2	209121.9	210844.1	212737	214613.4
2nd Totalizer Reading (gal)	193322.5	194623.5	196575.3	197091.8	199214.7	201242.5	203802.5	205164.6	207296.4	209126.1	210848.4	212741.3	214617.7
Gallons Pumped	4.7	4.2	3.9	18.9	4.5	4.3	4.2	4.3	4.2	4.2	4.3	4.3	4.3
Time Elapsed (min)	7	5	4	19	5	5	5	5	5	5	5	5	5
Flow Rate (gpm)	1	0.84	0.97	0.99	0.90	0.86	0.84	0.86	0.84	0.84	0.86	0.86	0.86
RW-1 Pressure Before Filter (psi)	12	17	33	33	4	5	5	5	5	5	5	5	4
RW-1 Pressure After Filter (psi)	10	14	31	31	4	4	4	4	4	4	4	4	4
RW-1 Filter Changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
RW-1 Pump Speed Setting	68.5	75	75	75	75	75	75	75	75	75	75	75	75
RW-1 Well Level Reading	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
RW-1 Flow Valves Adjusted? Y/N	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-1 Pump Speed Adjusted? Y/N	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)	4033231.8	4069471.5	4124763.2	4138130.5	4190384.8	4238921.5	4303818.5	4337541.5	4390904.3	4437258.7	4477817	4522745.8	4567129.2
2nd Totalizer Reading (gal)	4033419.5	4069718.5	4124842.5	4138288.8	4190493.5	4239020	4303892.5	4337627	4390974.5	4437358.5	4477893.3	4522882.4	4567256.6
Gallons Pumped	187.7	247	79.3	158.3	108.7	98.5	74	85.5	70.2	99.8	76.3	138.6	127.4
Time Elapsed (min)	34	44	15	36	21	5.18	15	18	15	24	17	32	29
Flow Rate (gpm)	5.50	5.61	5.29	4.40	5.18	19.02	4.93	4.75	4.68	4.16	4.49	4.33	4.39
RW-2 Pressure Before Filter (psi)	5	5	5	5	5	5.18	4	4	5	5	5	5	5
RW-2 Pressure After Filter (psi)	8	8	8	8	7	8	8	8	8	8	8	7	7
RW-2 Filter Changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
RW-2 Pump Speed Setting	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	75	75	89.5	89.5
RW-2 Well Level Reading	9	9.5	9	10.5	11	10	10.5	10.5	10	10.5	10.5	10.5	10.5
RW-2 Flow Adjustment? Y/N	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)	2249722.3	2354710	2515167.5	2554705.5	2704554.3	2843065.8	3030263.8	3132620.9	3294638.5	3435457.8	3564384.9	3699567.3	3830832
2nd Totalizer Reading (gal)	2250262.5	2355411.4	2515412	2555278.4	2704845.5	2843338.9	3030464.8	3132878.9	3294854	3435807.3	3564652	3699627.4	3831217.2
Gallons Pumped	540.2	701.4	244.5	572.9	291.2	273.1	201	258	215.5	349.5	267.1	60.1	385.2
Time Elapsed (min)	34	44	16	36	21	19	14	18	15	25	19	5	29
Flow Rate (gpm)	15.89	15.94	15.20	15.91	13.87	14.37	14.36	14.33	14.37	13.98	14.06	12.02	13.28
RW-3 Pressure Before Filter (psi)	18	18	18	18	30	27	27	27	27	29	29	48	33
RW-3 Pressure After Filter (psi)	10	11	11	10	24	22	22	22	22	20	20	20	8
RW-3 Filter Changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading	11.8	12.5	11.6	13.1	16	14.6	14.6	14.4	14.7	14.3	14.9	18.9	16.3
RW-3 Flow Adjustment? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE											
Description	03/30/1999	04/06/1999	04/13/1999	04/20/1999	04/29/1999	05/03/1999	05/12/1999	05/17/1999	05/29/1999	06/07/1999	06/12/1999	06/28/1999
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	**YES**
RW-1 Flow Totalizer Reading (gal)	216477.2	218355.1	220184.2	221972.9	224238.4	225241.3	227596.2	228445.5	231534.4	233814	235295.9	**238868.7**
2nd Totalizer Reading (gal)	216481.4	218359.3	220188.4	221976.7	224242.5	225245.3	227600.4	228466.8	231538.6	233818.9	235300.5	**238873.8**
Gallons Pumped	4.2	4.2	4.2	3.8	4.1	4	4.2	21.3	4.2	4.9	4.6	**5.1**
Time Elapsed (min)	4	4	4	2	4	4	4	20	4	8	7	**8**
Flow Rate (gpm)	1.05	1.05	1.05	1.90	1.03	1.00	1.05	1.06	1.05	0.61	0.66	**0.64**
RW-1 Pressure Before Filter (psi)	5	5	4	9	6	7	6	7	7	5	4	**5**
RW-1 Pressure After Filter (psi)	4	4	4	8	6	8	6	7	7	4	4	**5**
RW-1 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	**YES**
RW-1 Pump Speed Setting	75	75	75	75	75	75	75	75	75	68.5	68.5	**68.5**
RW-1 Well Level Reading	10.5	10.5	10.5	10.5	10.5	10.5	10.5	9	10.5	10.5	10.5	**10.5**
RW-1 Flow Valves Adjusted? Y/N	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	**NO**
RW-1 Pump Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	**NO**
RW-2 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	**NO**
RW-2 Flow Totalizer Reading (gal)	4610024.2	4654912.3	4699422.2	4744496.5	4808876.4	4839203	4912550.1	4938361.3				
2nd Totalizer Reading (gal)	4610055.5	4654957.8	4699522.3	4744554.8	4808980.6	4839342	4912802.2	4938463.1				
Gallons Pumped	31.3	45.5	100.1	58.3	104.2	139	252.1	101.8				
Time Elapsed (min)	6	10	22	13	21	27	46	21				
Flow Rate (gpm)	5.22	4.55	4.55	4.48	4.96	5.15	5.48	4.85				
RW-2 Pressure Before Filter (psi)	5	5	6	5	5	5	6	6				
RW-2 Pressure After Filter (psi)	7	7	7	7	7	7	7	8				
RW-2 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO
RW-2 Pump Speed Setting	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	OFF	OFF	OFF	OFF
RW-2 Well Level Reading	10.5	10	9.5	9.5	9.5	9.5	9.5	10.5				
RW-2 Flow Adjustment? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	**YES**
RW-3 Flow Totalizer Reading (gal)	3962920	4100137.5	4237102.5	4372410	4567435.4	4656790.5	4861511.1	4933595.8	5192906	5390952.1	5524750	**5848435.5**
2nd Totalizer Reading (gal)	3963023.5	4100273.5	4237426.4	4372614.5	4567762	4657192.5	4862222.2	4933902.9	5193849.2	5391280.9	5525024.9	**5848941**
Gallons Pumped	103.5	136	323.9	204.5	326.6	402	711.1	307.1	943.2	328.8	274.9	**505.5**
Time Elapsed (min)	6	10	24	13	21	26	46	20	60	22	18	**33**
Flow Rate (gpm)	17.25	13.60	13.50	15.73	15.55	15.46	15.46	15.36	15.72	14.95	15.27	**15.32**
RW-3 Pressure Before Filter (psi)	33	32	31	19	19	19	19	20	19	18	19	**18**
RW-3 Pressure After Filter (psi)	8	8	20	8	9	8	8	8	8	8	8	**8**
RW-3 Filter Changed? Y/N	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	**YES**
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	**110.5**
RW-3 Well Level Reading	15.8	15.1	14.9	13.9	12.4	12.4	12.4	12.8	12.6	12.6	12.1	**11.4**
RW-3 Flow Adjustment? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	**NO**
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	**NO**

Roxy Cleaners Site No.442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE												
Description	07/06/1999	07/13/1999	07/20/1999	07/27/1999	08/03/1999	08/10/1999	08/17/1999	08/24/1999	08/31/1999	09/07/1999	09/14/1999	09/21/1999	09/28/1999
RW-1 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-1 Flow Totalizer Reading (gal)	240846.1	241182.4	242832.3	244499.9	246161.4	247811	249413.5	251060.3	252731.5	254501.3	256318.2	258082.4	259342
2nd Totalizer Reading (gal)	240851	241187.1	242837.1	244501.8	246166.2	247815.9	249418.3	251064.8	252736	254505.7	256322.7	258086.9	259358.2
Gallons Pumped	4.9	4.7	4.8	1.9	4.8	4.9	4.8	4.5	4.5	4.4	4.5	4.5	16.2
Time Elapsed (min)	8	9	9	3	11	10	12	5	6	6	6	7	16
Flow Rate (gpm)	0.61	0.52	0.53	0.63	0.44	0.49	0.40	0.90	0.75	0.73	0.75	0.64	1.01
RW-1 Pressure Before Filter (psi)	5	5	5	5	5	5	5	5	5	5	5	5	5
RW-1 Pressure After Filter (psi)	4	4	4	4	4	4	4	4	4	4	4	4	4
RW-1 Filter Changed? Y/N	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
RW-1 Pump Speed Setting	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
~~*RW-1 Well Level Reading*~~	~~10.5~~	~~10.5~~	~~10.5~~	~~9~~	~~10~~	~~10.5~~	~~10~~	~~10~~	~~10.5~~	~~10~~	~~10.5~~	~~10.5~~	~~10~~
RW-1 Flow Valves Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-1 Pump Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-2 Operating? Y/N	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-2 Flow Totalizer Reading (gal)					5005943.5	5062658.5	5118177.7	5173884.5	5264810.9	5321238.6	5374302.2	5424220.9	5458413.5
2nd Totalizer Reading (gal)					5005955.3	5062787.3	5118237.5	5173966.8	5264828.2	5321292.2	5374614	5424354.2	5458566.9
Gallons Pumped					11.8	128.8	59.8	82.3	17.3	53.6	311.8	133.3	153.4
Time Elapsed (min)					2	23	11	15	3	10	61	27	30
Flow Rate (gpm)					5.90	5.60	5.44	5.49	5.77	5.36	5.11	4.94	5.11
RW-2 Pressure Before Filter (psi)					16	16	16	15	23	29	35	36	35
RW-2 Pressure After Filter (psi)					18	18	17	18	20	22	26	26	28
RW-2 Filter Changed? Y/N	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
RW-2 Pump Speed Setting	OFF	OFF	OFF	OFF	68.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
RW-2 Well Level Reading					-	-	-	-	-	-	-	-	-
RW-2 Flow Adjustment? Y/N	NO	NO	NO	NO	YES	NO	NO	YES	YES	NO	NO	NO	YES
RW-2 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Operating? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
RW-3 Flow Totalizer Reading (gal)	6029641	6055085.5	6208193.4	6360975.9	6510700.3	6661363.1	6811035.5	6962891	7108103.8	7256362.5	7405415.5	7558512	7665575
2nd Totalizer Reading (gal)	6029803.9	6055389.9	6208681.5	6361110.9	6510999.5	6661717.2	6811191	6963114.5	7108236.6	7256519.1	7406308.5	7558928.5	7666036.1
Gallons Pumped	162.9	304.4	488.1	135	299.2	354.1	155.5	223.5	132.8	156.6	893	416.5	461.1
Time Elapsed (min)	11	20	32	9	20	24	11	15	9	10	61	27	30
Flow Rate (gpm)	14.81	15.22	15.25	15.00	14.96	14.75	14.14	14.90	14.76	15.66	14.64	15.43	15.37
RW-3 Pressure Before Filter (psi)	17	18	18	18	19	19	18	15	17	15	15	17	17
RW-3 Pressure After Filter (psi)	8	8	8	8	8	8	8	8	8	8	8	8	8
RW-3 Filter Changed? Y/N	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
RW-3 Pump Speed Setting	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
RW-3 Well Level Reading	12.3	12.4	12	11.7	12	11.8	11.8	12	12.3	11.9	12.1	12.2	12.7
RW-3 Flow Adjustment? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
RW-3 Speed Adjusted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE															
Description	09/30/1997	10/07/1997	10/14/1997	10/21/1997	10/28/1997	11/04/1997	11/11/1997	11/18/1997	11/25/1997	12/02/1997	12/09/1997	12/16/1997	12/23/1997	12/30/1997	01/06/1998	01/13/1998
Water Sample Taken? Y/N	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	YES
SPDES? Y/N	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	YES
Effluent pH					8.11						7.89					8.34
Influent Water Sample Taken? Y/N	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	YES
Leaks? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Depth (in)	1		2	2	2	2	2	2	2	2	2	2	2	2	2	2
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM																
Description	09/30/1997	10/07/1997	10/14/1997	10/21/1997	10/28/1997	11/04/1997	11/11/1997	11/18/1997	11/26/1997	12/02/1997	12/09/1997	12/16/1997	12/23/1997	12/30/1997	01/06/1998	01/13/1998
PRESSURE (in wc)																
Blower Intake	-0.9	-0.9	-0.9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.2
Air Stripper	32	33	33	36	36	36	39	40	41	40	40	39	40	38.5	35	37
Magnehelic	0.162	0.16	0.16	0.165	0.16	0.155	0.159	0.16	16	0.16	0.16	0.16	0.16	0.155	0.15	0.155
Manifold	34	34	34	34	34	32	33	34	34	33	33	33	34	32	32	32
Carbon Canister #1 Out	22	22	22	22	22	21	22	2	22	22	22	22	22	20	20	20
Carbon Canister #2 Out	12	0	5	12	12	11	11	11	11	11	11	11	11	10	10	10
Carbon Canister #3 Out	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Hnu (ppm)																
Background reading	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Carbon Canister #1 Out	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Carbon Canister #2 Out	0	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.5	0.4	0.4
Carbon Canister #3 Out	0	0.2	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.4
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Intake air filter replaced? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO
Vapor phase duct heaters on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum # (1)																
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum #																

BUILDING CONDITION/UTILITIES DATA																
Description	09/30/1997	10/07/1997	10/14/1997	10/21/1997	10/28/1997	11/04/1997	11/11/1997	11/18/1997	11/25/1997	12/02/1997	12/09/1997	12/16/1997	12/23/1997	12/30/1997	01/06/1997	01/13/1997
Inside Temperature (°F)	75	74	69	65	64	66	65	64	60	59	59	60	62	60	64	64
Building Heat On? Y/N	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Vent Fan On? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
High Humidity/Condensation noted? Y/N	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
Trash Removed? Y/N	NO	YES	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO
Floor Swept? Y/N	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	YES	NO	NO	NO	NO
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Notes:
(1) Three 55 gallon drums were shipped off site. Two of these drums were spent carbon drums, the third was filled with spent water filters.

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE															
Description	01/20/1998	01/27/1998	02/05/1998	02/10/1998	02/17/1998	02/24/1998	03/03/1998	03/10/1998	03/17/1998	03/24/1998	03/30/1998	04/06/1998	04/14/1998	04/21/1998	04/29/1998	05/05/1998
Water Sample Taken? Y/N	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	NO	NO
SPDES? Y/N	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	NO	NO
Effluent pH				8.73				8 54						8.32		
Influent Water Sample Taken? Y/N	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	NO	NO
Leaks? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Depth (in)	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM																
Description	01/20/1998	01/27/1998	02/05/1998	02/10/1998	02/17/1998	02/24/1998	03/03/1998	03/10/1998	03/17/1998	03/24/1998	03/30/1998	04/06/1998	04/14/1998	04/21/1998	04/29/1998	05/05/1998
PRESSURE (in wc)																
Blower Intake	-1	-0.08	-1	-1	-1	-1.2	-1	-1	0.6	0.1	0.08	-0.1	-0.1	-1	*	-1
Air Stripper	38	40	36	36	36	36	34	35	37	36	32	35	35	35	*	33
Magnehelic	0.16	0.17	0.165	0.165	0.165	0.16	0.16	0.16	0.165	0.16	0.115	0.155	0.155	0.155	*	0.155
Manifold	32	35	34	34	34	34	33	33	35	36	34	35	36	36	*	36
Carbon Canister #1 Out	20	22	22	22	22	22	22	22	22	24	22	22	23	24	*	24
Carbon Canister #2 Out	10	11	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	*	[illegible]
Carbon Canister #3 Out	2	2	2	2	2	2	2	2	2	2	2	2	2	2	*	2
Hnu (ppm)																
Background reading	64	64	64	64	64	64	64	64	64	64	64	64	64	64	*	60
Carbon Canister #1 Out	0.4	0.4	0.6	0.4	0.4	0.6	0.6	0.6	0.6	0.4	0.4	0.8	0.8	0.8	*	0.8
Carbon Canister #2 Out	0.4	0.4	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.4	0.4	0.8	0.8	0.8	*	0.6
Carbon Canister #3 Out	0.4	0.4	0.4	0.6	0.6	0.4	0.4	0.6	0.2	0.4	0.4	0.6	not rec.	0.6	*	0.4
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	*	YES
Intake air filter replaced? Y/N	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES	*	NO
Vapor phase duct heaters on? Y/N	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	*	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	*	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	NO
Drum # (1)															*	
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	NO
Drum #															*	

BUILDING CONDITION/UTILITIES DATA																
Description	01/20/1998	01/27/1998	02/05/1998	02/10/1998	02/17/1996	02/24/1998	03/03/1998	03/10/1998	03/17/1998	03/24/1998	03/30/1998	04/06/1998	04/14/1998	04/21/1998	04/29/1998	05/05/1998
Inside Temperature (°F)	64	66	65	65	65	65	65	65	65	65	80	70	68	65	*	75
Building Heat On? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	*	NO
Vent Fan On? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	YES
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	*	YES
High Humidity/Condensation noted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	YES
Trash Removed? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	NO
Floor Swept? Y/N	YES	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	*	YES
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	*	NO

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE															
Description	05/13/1998	05/18/1998	05/26/1998	06/02/1998	06/09/1998	06/16/1998	06/22/1998	06/30/1998	07/07/1998	07/15/1998	07/20/1998	07/29/1998	08/03/1998	08/10/1998	08/17/1998	08/24/1998
Water Sample Taken? Y/N	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
SPDES? Y/N	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
Effluent pH			8.38				7.95					8.76				8.29
Influent Water Sample Taken? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO
Leaks? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Depth (in)	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM																
Description	05/13/1998	05/18/1998	05/26/1998	06/02/1998	06/09/1998	06/16/1998	06/22/1998	06/30/1998	07/07/1998	07/15/1998	07/20/1998	07/29/1998	08/03/1998	08/10/1998	08/17/1998	08/24/1998
PRESSURE (in wc)																
Blower Intake	-1.1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.2	-1.2	-1.2	-1	-1
Air Stripper	33	34	34	34	35	35	35	35	35	33	32	33	33	33	33	32
Magnehelic	0.155	0.155	0.15	0.15	0.15	0.145	0.145	0.145	0.145	0.15	0.15	0.15	0.155	0.155	0.155	0.15
Manifold	36	36	37	38	40	40	42	44	50	36	36	37	37	37	37	37
Carbon Canister #1 Out	24	24	26	27	38	38	32	34	40	24	24	25	26	26	26	26
Carbon Canister #2 Out	14	14	15	15	18	20	21	25	30	14	15	15	15	15	15	15
Carbon Canister #3 Out	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2
Hnu (ppm)																
Background reading	60	60	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Carbon Canister #1 Out	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.6
Carbon Canister #2 Out	0.4	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.4	0.6	0.6	0.6	0.6	0.6	0.6
Carbon Canister #3 Out	0.4	0.8	0.4	0.4	2	0.4	0.6	0.4	0.8	0.4	0.4	0.6	0.4	0.6	0.6	0.6
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Intake air filter replaced? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
Vapor phase duct heaters on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum # (1)																
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum #																

BUILDING CONDITION/UTILITIES DATA																
Description	05/13/1998	05/18/1998	05/26/1998	06/02/1998	06/09/1998	06/16/1998	06/22/1998	06/30/1998	07/07/1998	07/15/1998	07/20/1998	07/29/1998	08/03/1998	08/10/1998	08/17/1998	08/24/1998
Inside Temperature (°F)	80	72	73	72	80	75	80	76	76	75	80	80	75	80	80	80
Building Heat On? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vent Fan On? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
High Humidity/Condensation noted? Y/N	NO	NO	YES	NO	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES
Trash Removed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Floor Swept? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE															
Description	08/31/1998	09/09/1998	09/15/1998	09/22/1998	09/29/1998	10/07/1998	10/13/1998	10/19/1998	10/27/1998	11/03/1998	11/10/1998	11/17/1998	11/24/1998	12/01/1998	12/11/1998	12/15/1998
Water Sample Taken? Y/N	NO	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
SPDES? Y/N	NO	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
Effluent pH									8.31				8.58			
Influent Water Sample Taken? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
Leaks? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Depth (in)	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM																
Description	08/31/1998	09/08/1998	09/15/1998	09/22/1998	09/29/1998	10/07/1998	10/13/1998	10/19/1998	10/27/1998	11/03/1998	11/10/1998	11/17/1998	11/24/1998	12/01/1998	12/11/1998	12/15/1998
PRESSURE (in wc)																
Blower Intake	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Air Stripper	34	35	33	35	36	39	37	38	40	42	41	35	34	35	37	36
Magnehelic	0.155	0.15	0.15	0.15	0.155	0.155	0.15	0.15	0.15	0.15	0.149	0.16	0.16	0.16	0.165	0.16
Manifold	38	39	39	40	42	44	43	44	47	48	47	34	34	34	36	36
Carbon Canister #1 Out	26	26	27	28	28	30	30	32	34	34	34	18	18	18	19	20
Carbon Canister #2 Out	15	15	16	16	16	20	20	20	22	22	22	?	?	?	?	?
Carbon Canister #3 Out	2	2	2	3	2	2	3	3	3	3	2	*	*	*	*	*
Hnu (ppm)																
Background reading	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Carbon Canister #1 Out	0.6	*	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8
Carbon Canister #2 Out	0.6	*	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8
Carbon Canister #3 Out	0.6	*	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.8	*	*	*	*	*
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Intake air filter replaced? Y/N	YES	NO	NO	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	YES
Vapor phase duct heaters on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum # (1)																
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum #																

BUILDING CONDITION/UTILITIES DATA																
Description	08/31/1998	09/08/1998	09/15/1998	09/22/1998	09/29/1998	10/07/1998	10/13/1998	10/19/1998	10/27/1998	11/03/1998	11/10/1998	11/17/1998	11/24/1998	12/01/1998	12/08/1998	12/15/1998
Inside Temperature (°F)	75	75	80	65	70	70	75	75	72	69	59	67	65	67	66	68
Building Heat On? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
Vent Fan On? Y/N	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
High Humidity/Condensation noted? Y/N	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trash Removed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Floor Swept? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE															
Description	12/22/1998	12/29/1998	01/05/1999	01/12/1999	01/19/1999	01/26/1999	02/02/1999	02/11/1999	02/16/1999	02/24/1999	03/03/1998	03/09/1999	03/16/1999	03/23/1999	03/30/1999	04/06/1999
Water Sample Taken? Y/N	NO	YES	NO	NO	YES	NO	NO	NO	YES	NO	YES	NO	NO	NO	NO	NO
SPDES? Y/N	NO	YES	NO	NO	YES	NO	NO	NO	YES	NO	YES	NO	NO	NO	NO	NO
Effluent pH		8.75			8.54				8.52		8.39					
Influent Water Sample Taken? Y/N	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
Leaks? Y/N	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Depth (in)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM																
Description	12/22/1998	12/29/1998	01/05/1999	01/12/1999	01/19/1999	01/26/1999	02/02/1999	02/11/1999	02/16/1999	02/24/1999	03/03/1999	03/09/1999	03/16/1999	03/23/1999	03/30/1999	04/06/1999
PRESSURE (in wc)																
Blower Intake	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Air Stripper	38	38	38	40	37	36	35	36	36	38	38	38	33	38	34	33
Magnehelic	0.165	0.165	0.165	0.16	0.16	0.24	0.16	-	0.16	0.165	0.16	0.16	0.165	0.165	0.165	0.165
Manifold	36	37	38	38	38	35	34	36	36	38	38	40	32	38	34	34
Carbon Canister #1 Out	20	20	20	20	20	20	18	20	20	20	20	20	16	20	17	17
Carbon Canister #2 Out	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Carbon Canister #3 Out	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hnu (ppm)																
Background reading	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Carbon Canister #1 Out	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Carbon Canister #2 Out	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.8
Carbon Canister #3 Out	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Intake air filter replaced? Y/N	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
Vapor phase duct heaters on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
Drum # (1)													3 DRUMS			
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum #																

BUILDING CONDITION/UTILITIES DATA																
Description	12/22/1998	12/29/1998	01/05/1999	01/12/1999	01/19/1999	01/26/1999	02/02/1999	02/11/1999	02/16/1999	02/24/1999	03/03/1999	03/09/1999	03/16/1999	03/23/1999	03/30/1999	04/06/1999
Inside Temperature (°F)	65	67	65	65	68	66	66	68	69	67	69	65	67	67	68	70
Building Heat On? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Vent Fan On? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
High Humidity/Condensation noted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trash Removed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Floor Swept? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE															
Description	04/13/1999	04/20/1999	04/29/1999	05/03/1999	05/12/1999	05/17/1999	05/29/1999	06/07/1999	06/12/1999	06/28/1999	07/06/1999	07/13/1999	07/20/1999	07/27/1999	08/03/1999	08/10/1999
Water Sample Taken? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
SPDES? Y/N	NO	NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
Effluent pH			8.05							8.24						
Influent Water Sample Taken? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
Leaks? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Depth (in)	5	5	5	6	5	5	5	5	7	5	5	5	5	5	5	5
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM																
Description	04/13/1999	04/20/1999	04/29/1999	05/03/1999	05/12/1999	05/17/1999	05/29/1999	06/07/1999	06/12/1999	06/28/1999	07/06/1999	07/13/1999	07/20/1999	07/27/1999	08/03/1999	08/10/1999
PRESSURE (in wc)																
Blower Intake	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]	-[illegible]
Air Stripper	34	34	37	35	35	36	35	33	35	35	35	34	34	34	35	36
Magnehelic	0.16	0.16	0.16	0.16	0.155	0.16	0.16	0.15	0.15	0.15	0.14	0.15	0.145	0.145	0.145	0.145
Manifold	34	35	37	37	38	41	42	43	45	46	46	42	44	44	40	44
Carbon Canister #1 Out	17	17	18	18	20	28	29	30	32	33	32	30	30	32	30	32
Carbon Canister #2 Out	2	2	2	2	2	10	10	10	15	15	15	15	15	15	15	15
Carbon Canister #3 Out	*	*	*	*	*	4	3	3	3	2	2	2	2	2	2	2
Hnu (ppm)																
Background reading	64	64	64	MiniRae	MiniRae	MiniRae	56	56	56	56	56	56	56	56	56	56
Carbon Canister #1 Out	0.8	0.8	0.8	45.2	0	1.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Carbon Canister #2 Out	0.8	0.8	0.8	7	0	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Carbon Canister #3 Out	*	*	*	*	*	0.5	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Intake air filter replaced? Y/N	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
Vapor phase duct heaters on? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum # (1)																
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Drum #																

BUILDING CONDITION/UTILITIES DATA																
Description	04/13/1999	04/20/1999	04/29/1999	05/03/1999	05/12/1999	05/17/1999	05/29/1999	06/07/1999	06/12/1999	06/28/1999	07/06/1999	07/13/1999	07/20/1999	07/27/1999	08/03/1999	08/10/1999
Inside Temperature (°F)	70	71	67	70	75	85	75	80	85	85	85	80	80	85	80	80
Building Heat On? Y/N	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vent Fan On? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
High Humidity/Condensation noted? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	YES	NO
Trash Removed? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Floor Swept? Y/N	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Site Inspection Summary

WATER SYSTEM DATA	INSPECTION DATE						
Description	08/17/1999	08/24/1999	08/31/1999	09/07/1999	09/14/1999	09/21/1999	09/28/1999
Water Sample Taken? Y/N	NO	YES	NO	NO	NO	NO	NO
SPDES? Y/N	NO	YES	NO	NO	NO	NO	NO
Effluent pH		8.23					
Influent Water Sample Taken? Y/N	NO	NO	NO	NO	NO	NO	NO
Leaks? Y/N	NO	NO	NO	NO	NO	NO	NO
Water in Concrete Sump? Y/N	YES	YES	YES	YES	YES	YES	YES
Depth (in)	5	5	5	5	5	5	5
Stripper Cleaned? Y/N	NO	NO	NO	NO	NO	NO	NO

BLOWER/AIR SYSTEM							
Description	08/17/1999	08/24/1999	08/31/1999	09/07/1999	09/14/1999	09/21/1999	09/28/1999
PRESSURE (in wc)							
Blower Intake	-1	-1	-1	-1	-1	-1	-1
Air Stripper	35	35	35	36	37	40	38
Magnehelic	0.145	0.145	0.145	0.145	0.145	0.145	0.14
Manifold	44	44	46	46	47	48	46
Carbon Canister #1 Out	32	33	34	34	35	36	34
Carbon Canister #2 Out	15	15	15	15	15	15	15
Carbon Canister #3 Out	2	2	2	2	2	2	2
Hnu (ppm)							
Background reading	56	56	56	56	56	56	56
Carbon Canister #1 Out	0.4	0.4	0.4	0.4	0.2	0.2	0.4
Carbon Canister #2 Out	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Carbon Canister #3 Out	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Vapor phase booster fan on? Y/N	YES	YES	YES	YES	YES	YES	YES
Intake air filter replaced? Y/N	NO	YES	NO	NO	NO	NO	NO
Vapor phase duct heaters on? Y/N	YES	YES	YES	YES	YES	YES	YES
Leaks in air ducts? Y/N	NO	NO	NO	NO	NO	NO	NO
Carbon canisters changed? Y/N	NO	NO	NO	NO	NO	NO	NO
Spent drums shipped off site? Y/N	NO	NO	NO	NO	NO	NO	NO
Drum # (1)							
New drums Delivered to site? Y/N	NO	NO	NO	NO	NO	NO	NO
Drum #							

BUILDING CONDITION/UTILITIES DATA							
Description	08/17/1999	08/24/1999	08/31/1999	09/07/1999	09/14/1999	09/21/1999	09/28/1999
Inside Temperature (°F)	85	85	75	80	80	75	70
Building Heat On? Y/N	NO	NO	NO	NO	NO	NO	NO
Vent Fan On? Y/N	NO	NO	NO	NO	NO	NO	NO
Light Bulbs okay? Y/N	YES	YES	YES	YES	YES	YES	YES
High Humidity/Condensation noted? Y/N	YES	YES	NO	NO	NO	NO	NO
Trash Removed? Y/N	NO	NO	NO	NO	NO	NO	NO
Floor Swept? Y/N	NO	NO	NO	NO	NO	NO	NO
Structural Problems with Building?	NO	NO	NO	NO	NO	NO	NO

APPENDIX B

Treatment System Influent and Effluent Water Quality Analyses

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330

Description: Roxy Air Stripper, 195 Main St., Wynantskill, *RW-1 INFLUENT*

Target Compound List	Detection Limit	Concentration (MCG/L)											
		10/07/1997	11/12/1997	12/09/1997	01/13/1998	02/10/1998	03/10/1998	04/21/1998	07/29/1998	10/22/1998	01/19/1999	03/03/1999	06/28/1999
Chloromethane	< 50. MCG/L												
Bromomethane	< 50. MCG/L												
Vinyl Chloride	< 50. MCG/L												
Chloroethane	< 50. MCG/L												
Methylene Chloride (Dichloromethane)	< 50. MCG/L	8		8	4	3	9	4	5	7			1
Acetone	< 50. MCG/L								86	76			
Carbon Disulfide	< 50. MCG/L												
1,1-Dichloroethene	< 50. MCG/L												
1,1-Dichloroethane	< 50. MCG/L												
Cis/Trans-1,2-Dichloroethene (Total)	< 50. MCG/L	56	83	60	64	80	60	56	86	38	49	68	63
Chloroform	< 50. MCG/L								2				
1,2-Dichloroethane	< 50. MCG/L												
2-Butanone (Methyl Ethyl Ketone)	< 50. MCG/L												
1,1,1-Trichloroethane	< 50. MCG/L												
Carbon Tetrachloride	< 50. MCG/L												
Bromodichloromethane	< 50. MCG/L												
1,2-Dichloropropane	< 50. MCG/L												
Cis-1,3 Dichloropropene	< 50. MCG/L												
Trichloroethene	< 50. MCG/L	30	26	23	30	32	27	28	36	36	23	31	19
Dibromochloromethane	< 50. MCG/L												
1,1,2-Trichloroethane	< 50. MCG/L												3
Benzene	< 50. MCG/L												
Trans-1,2-Dichloropropene	< 50. MCG/L												
Bromoform	< 50. MCG/L												0.1
4-Methyl-2-Pentanone (MIBK)	< 50. MCG/L												
2-Hexanone (Methyl Butyl Ketone)	< 50. MCG/L												
Tetrachloroethene	< 50. MCG/L	910	840	600	740	910	720	720	790	820	610	410	170
1,1,2,2-Tetrachloroethane	< 50. MCG/L												
Toluene	< 50. MCG/L												0.4
Chlorobenzene	< 50. MCG/L												0.2
Ethylbenzene	< 50. MCG/L									0.2			
Styrene	< 50. MCG/L									1			0.3
Total Xylenes	< 50. MCG/L												0.1
Data Qualifications		BJ,_J	_J	BJ,J,J	J,J,J	J,_J	BJ,J,J	J,J,J	BJ,BJ,J,J,_	BJ,J,BJ,BJ,J,_J,J	J,BJ	J,BJ,B	BJ,_BJ,J,_BJ,BJ,BJ

Note: Data qualifications are in the order that they appear on the data sheets.

J = Estimated Value B = Found in the Blank

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Roxy Air Stripper, 195 Main St., Wynantskill, *RW-2 INFLUENT*

Target Compound List	Detection Limit	Concentration (MCG/L)											
		10/07/1997	11/12/97	12/09/1997	01/13/1998	02/10/1998	03/10/1998	04/21/1998	07/29/1998	10/27/1998	01/19/1999	03/03/1999	06/21/1999
Chloromethane	<100. MCG/L												
Bromomethane	<100. MCG/L												
Vinyl Chloride	<100. MCG/L												
Chloroethane	<100. MCG/L												
Methylene Chloride (Dichloromethane)	<100. MCG/L			8	6	9	9	3	4	4			
Acetone	<100. MCG/L								30				
Carbon Disulfide	<100. MCG/L												
1,1-Dichloroethene	<100. MCG/L												
1,1-Dichloroethane	<100. MCG/L												
Cis/Trans-1,2-Dichloroethene (Total)	<100. MCG/L	21		10	8	7	5	4	10	23	18	18	
Chloroform	<100. MCG/L												
1,2-Dichloroethane	<100. MCG/L												
2-Butanone (Methyl Ethyl Ketone)	<100. MCG/L									27			
1,1,1-Trichloroethane	<100. MCG/L												
Carbon Tetrachloride	<100. MCG/L												
Bromodichloromethane	<100. MCG/L												
1,2-Dichloropropane	<100. MCG/L												
Cis-1,3 Dichloropropene	<100. MCG/L												
Trichloroethene	<100. MCG/L	19		7	7	6	5	5	6	7	7	8	
Dibromochloromethane	<100. MCG/L												
1,1,2-Trichloroethane	<100. MCG/L									4			
Benzene	<100. MCG/L												
Trans-1,3-Dichloropropene	<100. MCG/L												
Bromoform	<100. MCG/L												
4-Methyl-2-Pentanone (MIBK)	<100. MCG/L												
2-Hexanone (Methyl Butyl Ketone)	<100. MCG/L												
Tetrachloroethene	<100. MCG/L	1300	700	530	420	450	400	350	360	320	280	290	
1,1,2,2-Tetrachloroethane	<100. MCG/L												
Toluene	<100. MCG/L												
Chlorobenzene	<100. MCG/L												
Ethylbenzene	<100. MCG/L												
Styrene	<100. MCG/L												
Total Xylenes	<100. MCG/L												
Data Qualifications		J,J	B	BJ,J,J	J,J,J	J,J,J	BJ,J,J	J,J,J	BJ,BJ,BJ,J,B	BJ,J,BJ,J,J	J,J,J	J,BJ,B	

RW-2 Down During this Sampling Event

Note: Data qualifications are in the order that they appear on the data sheets.

J = Estimated Value B = Found in the Blank

= Information Unavailable

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New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330

Description: Roxy Air Stripper, 195 Main St., Wynantskill, *RW-3 INFLUENT*

		Concentration (MCG/L)											
Target Compound List	*Detection Limit*	*11/6/1997*	*11/12/97*	*12/09/1997*	*01/13/1998*	*02/10/1998*	*03/10/1998*	*04/21/1998*	*07/29/1998*	*10/22/1998*	*01/19/1999*	*03/03/1999*	*04/28/1999*
Chloromethane	< 50. MCG/L												
Bromomethane	< 50. MCG/L												
Vinyl Chloride	< 50. MCG/L												
Chloroethane	< 50. MCG/L												
Methylene Chloride (Dichloromethane)	< 50. MCG/L			9		3	9	7	6	21			3
Acetone	< 50. MCG/L								28	20			
Carbon Disulfide	< 50. MCG/L												
1,1-Dichloroethene	< 50. MCG/L												
1,1-Dichloroethane	< 50. MCG/L												
Cis/Trans-1,2-Dichloroethene (Total)	< 50. MCG/L		33	28		27	25	21	24	18	12	14	25
Chloroform	< 50. MCG/L												
1,2-Dichloroethane	< 50. MCG/L												
2-Butanone (Methyl Ethyl Ketone)	< 50. MCG/L												
1,1,1-Trichloroethane	< 50. MCG/L												
Carbon Tetrachloride	< 50. MCG/L												
Bromodichloromethane	< 50. MCG/L												
1,2-Dichloropropane	< 50. MCG/L												
Cis-1,3 Dichloropropene	< 50. MCG/L												
Trichloroethene	< 50. MCG/L					2	1	2	4	2	3	3	3
Dibromochloromethane	< 50. MCG/L												
1,1,2-Trichloroethane	< 50. MCG/L									4			
Benzene	< 50. MCG/L												
Trans-1,3-Dichloropropene	< 50. MCG/L												
Bromoform	< 50. MCG/L												
4-Methyl-2-Pentanone (MIBK)	< 50. MCG/L												
2-Hexanone (Methyl Butyl Ketone)	< 50. MCG/L												
Tetrachloroethene	< 50. MCG/L		490	520	470	470	400	390	380	290	280	210	150
1,1,2,2-Tetrachloroethane	< 50. MCG/L												
Toluene	< 50. MCG/L												
Chlorobenzene	< 50. MCG/L												
Ethylbenzene	< 50. MCG/L												
Styrene	< 50. MCG/L												
Total Xylenes (o,m,p)	< 50. MCG/L												
Data Qualifications			J,B	BJ,J		J,J,J	BJ,J,J	J,J	BJ,BJ,BJ,J,B	BJ,J,J,BJ,J,J	J	J,BJ,B	BJ,J,J,_

Note: Data qualifications are in the order that they appear on the data sheets.

J = Estimated Value B = Found in the Blank

= Information Unavailable

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330

Description: Roxy Air Stripper, 195 Main St., Wynantskill, *COMBINED*

Target Compound List	*Detection Limit*	*Concentration (MCG/L)*											
		10/07/1997	*11/12/1997*	*12/09/1997*	*01/26/1998*	*02/10/1998*	*03/10/1998*	*04/21/1998*	*07/29/1998*	*10/27/1998*	*01/19/1999*	*03/03/1999*	*06/28/1999*
Chloromethane	< 50. MCG/L												
Bromomethane	< 50. MCG/L												
Vinyl Chloride	< 50. MCG/L												
Chloroethane	< 50. MCG/L												
Methylene Chloride (Dichloromethane)	< 50. MCG/L			10			9		3	2			2
Acetone	< 50. MCG/L				29		38		28				
Carbon Disulfide	< 50. MCG/L												
1,1-Dichloroethene	< 50. MCG/L												
1,1-Dichloroethane	< 50. MCG/L												
Cis/Trans-1,2-Dichloroethene (Total)	< 50. MCG/L			24	20	26	21	18	22	24	16	26	27
Chloroform	< 50. MCG/L												
1,2-Dichloroethane	< 50. MCG/L												
2-Butanone (Methyl Ethyl Ketone)	< 50. MCG/L									17			
1,1,1-Trichloroethane	< 50. MCG/L												
Carbon Tetrachloride	< 50. MCG/L												
Bromodichloromethane	< 50. MCG/L												
1,2-Dichloropropane	< 50. MCG/L												
Cis-1,3 Dichloropropene	< 50. MCG/L												
Trichloroethene	< 50. MCG/L	17			4	3	3	3	6	6		7	6
Dibromochloromethane	< 50. MCG/L												
1,1,2-Trichloroethane	< 50. MCG/L									4			
Benzene	< 50. MCG/L												
Trans-1,3-Dichloropropene	< 50. MCG/L												
Bromoform	< 50. MCG/L												
4-Methyl-2-Pentanone (MIBK)	< 50. MCG/L												
2-Hexanone (Methyl Butyl Ketone)	< 50. MCG/L												
Tetrachloroethene	< 50. MCG/L	1200	720	540	400	540	400	370	460	370	310	350	350
1,1,2,2-Tetrachloroethane	< 50. MCG/L												
Toluene	< 50. MCG/L												
Chlorobenzene	< 50. MCG/L												
Ethylbenzene	< 50. MCG/L												
Styrene	< 50. MCG/L												
Total Xylenes	< 50. MCG/L												
Data Qualifications		J	B	BJ,J	J,J	J,J	BJ,J,J	J,J	BJ,BJ,BJ,J,B	BJ,J,BJ,J,J	J		BJ,BJ,J_

Note: Data qualifications are in the order that they appear on the data sheets.

J = Estimated Value B = Found in the Blank

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New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Roxy Air Stripper, 195 Main St., Wynantskill, *EFFLUENT*

		Concentration (MCG/L)																					
Target Compound List	Detection Limit	10/07/1997	11/12/1997	12/09/1997	01/13/1998	02/10/1998	03/10/1998	04/21/1998	05/26/1998	06/22/1998	07/29/1998	08/24/1998	09/29/1998	10/27/1998	11/24/1998	12/29/1998	01/19/1999	02/16/1999	03/03/1999	04/29/1999	05/18/1999	06/28/1999	07/20/1999
Chloromethane	<10. MCG/L															0.3							
Bromomethane	< 10. MCG/L																						0.07
Vinyl Chloride	<10. MCG/L																						
Chloroethane	< 10. MCG/L																						
Methylene Chloride (Dichloromethane)	<10. MCG/L										0.3	0.3								0.4		0.2	0.1
Acetone	< 10. MCG/L															0.1		4		2			5
Carbon Disulfide	<10. MCG/L																						
1,1-Dichloroethene	< 10. MCG/L																						
1,1-Dichloroethane	<10. MCG/L																						
Cis/Trans-1,2-Dichloroethene (Total)	< 10. MCG/L								0.3	0.4	0.6	0.6		0.6						0.2		0.3	
Chloroform	<10. MCG/L																						
1,2-Dichloroethane	< 10. MCG/L																						
2-Butanone (Methyl Ethyl Ketone)	<10. MCG/L													2		2		3		2		4	7
1,1,1-Trichloroethane	< 10. MCG/L																						
Carbon Tetrachloride	<10. MCG/L																						
Bromodichloromethane	< 10. MCG/L																						
1,2-Dichloropropane	<10. MCG/L																						
Cis-1,3 Dichloropropene	< 10. MCG/L																						
Trichloroethene	<10. MCG/L																						
Dibromochloromethane	< 10. MCG/L																						
1,1,2-Trichloroethane	<10. MCG/L																						
Benzene	< 10. MCG/L																						
Trans-1,3-Dichloropropene	<10. MCG/L																						
Bromoform	< 10. MCG/L																						
4-Methyl-2-Pentanone (MIBK)	<10. MCG/L																						
2-Hexanone (Methyl Butyl Ketone)	< 10. MCG/L																	4					
Tetrachloroethene	<10. MCG/L		0.5	0.3	0.4	0.4	0.2	0.5	1	0.5	0.5	0.4	0.1	0.3		0.4		0.5	0.4	0.4	0.3	0.5	0.4
1,1,2,2-Tetrachloroethane	< 10. MCG/L																						
Toluene	<10. MCG/L																					0.1	0.04
Chlorobenzene	< 10. MCG/L																			0.07			
Ethylbenzene	<10. MCG/L																					0.04	
Styrene	< 10. MCG/L																						
Total Xylenes	<10. MCG/L																			0.2		0.1	
Total Suspended Solids (MG/L)	MG/L	**	1	1	2	2	1	4	1	1	1	2	1	2	1	1	1	1		1	1	1	1
Total Dissolved Solids (MG/L)	MG/L	**	330	322	319	350	335	351	371	334	357	349	348	327	330	336	349	334		331	366	352	323
Total Iron (MCG/L)	MCG/L	**	206	10	10	10	10	10	119	10	10	11	10	10	10	10	10	24		10	10	10	10
Total Lead (MCG/L)	MCG/L	**	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		20	20	20	20
Data Qualifications			J	BJ	J	BJ	J	J	J,J	BJ,BJ	BJ,J,BJ	BJ,J,J	J	J,BJ,J		BJ,BJ,BJ,J		J,J,J,J	J	BJ,BJ,J,BJ,J,J,BJ	J	BJ,J,J,J,BJ,BJ,BJ	BJ,BJ,BJ,BJ,J,BJ

J = Estimated Value B = Found in the Blank

** = Not included in report

Note: Data qualifications are in the order that they appear on the data sheets
Lead, (Total) < 20 on 11/12, 12/9, 1/13, 2/10, 3/10, 4/21, 5/26, 6/22, 7/29, 8/24, 9/29, 2/16, 4/29, 5/18, 6/28, 7/20
Iron, (Total) < 10 on 12/9, 2/10, 3/10, 4/21, 6/22, 7/29, 8/24, 9/29, 4/29, 5/18, 6/28, 7/20

APPENDIX C

Groundwater Contaminant Recovery Evaluation

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330

CONTAMINANT RECOVERY SUMMARY

September 30, 1997 - September 28, 1999
(Two years of recovery)

	1997-1998 CONTAMINANT RECOVERY (kg)	1998-1999 CONTAMINANT RECOVERY (kg)	TOTAL RECOVERY 1997-1999 (kg)	% OF TOTAL RECOVERY RECOVERY
APPROX. RW1 RECOVERY	0.34	0.20	0.54	1.82
APPROX. RW2 RECOVERY	5.49	2.65	8.14	27.44
APPROX. RW3 RECOVERY	12.40	8.58	20.98	70.73
TOTAL DCE RECOVERY	0.75	0.68	1.43	4.82
TOTAL TCE RECOVERY	0.13	0.16	0.29	0.98
TOTAL PCE RECOVERY	17.34	10.58	27.92	94.20
TOTAL RECOVERY	**18.22**	**11.42**	**29.64**	

Notes:

1) Contaminate recovery is based on weekly pump flow measurements and monthly influent water analysis.
2) Total recovery is calculated as the sum of DCE, TCE, and PCE.
3) Approximate RW value because the mixed effluent may contain trace amounts of contaminants

AVERAGE CONTAMINANT CONCENTRATION

September 29, 1998 - September 28, 1999

RECOVERY WELLS	1ST QUARTER MCG/L	2ND QUARTER MCG/L	3RD QUARTER MCG/L	4TH QUARTER MCG/L
RW1 CONTAMINANT CONCENTRATION	899	691	509	252
RW2 CONTAMINANT CONCENTRATION	357	316	316	316
RW3 CONTAMINANT CONCENTRATION	339	283	227	380

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Treatment System Evaluation

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18
	09/30/1997	10/07/1997	10/14/1997	10/21/1997	10/28/1997	11/04/1997	11/11/1997	11/18/1997	11/25/1997	12/02/1997	12/09/1997	12/16/1997	12/23/1997	12/23/1997	12/30/1997	01/06/1998	01/13/1998	01/20/1998	01/27/1998
RW 1 Gal of Water (Totalizer 2- Totalizer 1) [1]	-	*2,600*	2,684	2,806	2,559	2,572	2,640	2,220	2,483	1,685	1,067	1,679	1,138	2,015	2,015	595	2,312	2,696	2,515
RW 2 Gal. of Water (Totalizer 2- Totalizer 1) [1]	-	-	*60,000*	66,596	58,926	54,082	66,516	54,750	59,200	58,622	59,727	58,360	53,492	56,311	56,311	12,890	51,365	52,957	40,567
RW1 DCE Concentrations (MCG/L)		*56*	56	56	56	56	83	83	83	83	60	60	60	60	60	60	64	64	64
RW2 DCE Concentrations (MCG/L)	-	21	*21*	21	21	21	-	-	-	-	10	10	10	10	10	10	8	8	8
RW1 TCE Concentrations (MCG/L)	-	*30*	30	30	30	30	26	26	26	26	23	23	23	23	23	23	30	30	30
RW2 TCE Concentrations (MCG/L)	-	19	*19*	19	19	19	-	-	-	-	7	7	7	7	7	7	7	7	7
RW1 PCE Concentrations (MCG/L)	-	*910*	910	910	910	910	840	840	840	840	600	600	600	600	600	600	740	740	740
RW2 PCE Concentrations (MCG/L)	-	1,300	*1,300*	1,300	1,300	1,300	700	700	700	700	530	530	530	530	530	530	420	420	420
Effluent DCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent TCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent DCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent TCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL RW1 CONCENTRATION (MCG/L)		*996*	996	996	996	996	949	949	949	949	683	683	683	683	683	683	834	834	834
TOTAL RW2 CONCENTRATION (MCG/L)		1,340	*1,340*	1,340	1,340	1,340	700	700	700	700	547	543	547	547	547	547	435	435	435
RW1 DCE (GRAMS)	-	*1*	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
RW2 DCE (GRAMS)	-	-	5	5	5	4	-	-	-	-	2	2	2	2	2	0	2	2	1
RW1 TCE (GRAMS)	-	*0*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RW2 TCE (GRAMS)		-	4	5	4	4	-	-	-	-	2	2	1	1	1	0	1	1	1
RW1 PCE (GRAMS)	-	*9*	9	10	9	9	8	7	8	5	2	4	3	5	5	1	6	8	7
RW2 PCE (GRAMS)	-	-	295	328	290	266	176	145	157	155	120	117	107	113	113	26	82	84	65
APPROX. RW1 RECOVERY (GRAMS) (2)		*10*	10	11	10	10	9	8	9	6	3	4	3	5	5	2	7	9	8
APPROX. RW2 RECOVERY (GRAMS) (2)			305	338	299	275	176	145	157	155	124	121	111	117	117	27	83	87	67
TOTAL DCE RECOVERY (GRAMS)		*1*	5	6	5	5	21	20	21	21	20	20	20	20	20	5	2	2	2
TOTAL TCE RECOVERY (GRAMS)		0	5	5	5	4	0	0	0	0	2	2	2	2	2	0	2	2	1

Notes:

Contaminate RECOVERY is based on weekly pump flow measurements and monthly influent water analysis.

4/21/98 was the last required monthly influent water analysis.

[1] Flows in italics were estimated

[2] Approximate value because the mixed effluent may contain trace amounts of contaminants

Sample Calculations:

RW1 DCE (Grams) = Total RW1 DCE Concentration MCG/L X RW1 Gallons of Water / 0.264

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330
Treatment System Evaluation

	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37
	02/10/1998	02/17/1998	02/24/1997	03/03/1998	03/10/1998	03/17/1998	03/24/1998	03/30/1998	04/06/1998	04/14/1998	04/21/1998	04/29/1998	05/05/1998	05/13/1998	05/18/1998	05/26/1998	06/02/1998	06/09/1998	06/16/1998
RW 1 Gal. of Water (Totalizer 2- Totalizer 1) [1]	2,265	2,259	2,164	1,848	2,483	2,153	1,357	1,866	1,993	2,174	1,937	2,559	1,631	2,295	7	1,143	2,150	2,157	2,027
RW 2 Gal. of Water (Totalizer 2- Totalizer 1) [1]	42,924	42,868	41,189	34,885	47,209	41,483	25,734	68,097	93,255	68,420	63,435	71,263	50,979	70,224	39,424	65,422	51,935	63,007	57,580
RW1 DCE Concentrations (MCG/L)	80	80	80	80	60	60	60	60	60	60	56	56	56	56	56	56	56	56	56
RW2 DCE Concentrations (MCG/L)	7	7	7	7	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4
RW1 TCE Concentrations (MCG/L)	32	32	32	32	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28
RW2 TCE Concentrations (MCG/L)	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
RW1 PCE Concentrations (MCG/L)	910	910	910	910	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
RW2 PCE Concentrations (MCG/L)	450	450	450	450	400	400	400	400	400	400	350	350	350	350	350	350	350	350	350
Effluent DCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
Effluent TCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent DCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
Effluent TCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL RW1 CONCENTRATION (MCG/L)	1,027	1,027	1,027	1,027	807	807	807	807	807	807	664	664	664	664	664	664	664	664	664
TOTAL RW2 CONCENTRATION (MCG/L)	463	463	463	463	410	410	410	410	410	410	359	359	359	359	359	359	359	359	359
RW1 DCE (GRAMS)	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
RW2 DCE (GRAMS)	1	1	1	1	1	1	0	1	2	1	1	1	1	1	1	1	1	1	1
RW1 TCE (GRAMS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RW2 TCE (GRAMS)	1	1	1	1	1	1	0	1	2	1	1	1	1	1	1	1	1	1	1
RW1 PCE (GRAMS)	8	8	7	6	7	6	4	5	5	6	5	7	4	6	0	3	6	6	6
RW2 PCE (GRAMS)	73	73	70	59	72	63	39	103	141	104	84	94	68	93	52	87	69	84	78
APPROX. RW1 RECOVERY (GRAMS) (2)	9	9	8	7	8	7	4	6	6	7	6	8	5	7	0	3	7	7	6
APPROX. RW2 RECOVERY (GRAMS) (2)	75	75	72	61	73	64	40	106	145	106	86	97	69	95	54	89	71	86	78
TOTAL DCE RECOVERY (GRAMS)	19	19	18	16	19	17	11	15	18	19	14	17	12	16	9	15	14	14	14
TOTAL TCE RECOVERY (GRAMS)	3	3	2	2	2	2	1	2	3	2	3	3	2	3	2	3	2	3	2

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	Week 38	Week 39	Week 40	Week 41	Week 42	Week 43	Week 44	Week 45	Week 46	Week 47	Week 48	Week 49	Week 50	Week 51	Week 52	Week 53	Week 54	Week 55	Week 56
	06/22/1998	06/30/1998	07/07/1998	07/15/1998	07/20/1998	07/29/1998	08/03/1998	00/10/1998	08/17/1998	08/25/1998	08/31/1998	09/06/1998	09/15/1998	09/22/1998	09/29/1998	10/07/1998	10/13/1998	10/19/1998	10/27/1998
RW 1 Gal. of Water (Totalizer 2- Totalizer 1) [1]	1,902	2,498	2,072	813	1,620	2,587	1,460	2,054	2,073	1,971	1,987	2,348	2,007	1,949	1,889	2,276	1,782	1,724	2,216
RW 2 Gal. of Water (Totalizer 2- Totalizer 1) [1]	51,035	68,443	57,240	22,595	50,920	87,207	48,168	67,919	64,697	62,966	61,409	75,230	61,413	57,287	51,776	69,367	54,703	52,033	67,936
RW1 DCE Concentrations (MCG/L)	56	56	56	56	56	86	86	86	86	86	86	86	86	86	86	86	86	86	38
RW2 DCE Concentrations (MCG/L)	4	4	4	4	4	10	10	10	10	10	10	10	10	10	10	10	10	10	23
RW1 TCE Concentrations (MCG/L)	28	28	28	28	28	36	36	36	36	36	36	36	36	36	36	36	36	36	36
RW2 TCE Concentrations (MCG/L)	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7
RW1 PCE Concentrations (MCG/L)	720	720	720	720	720	790	790	790	790	790	790	790	790	790	790	790	790	790	820
RW2 PCE Concentrations (MCG/L)	350	350	350	350	350	360	360	360	360	360	360	360	360	360	360	360	360	360	320
Effluent DCE Concentrations (MCG/L)	0	0	0	0	0	1	1	1	1	-	1	1	1	1	-	-	-	-	1
Effluent TCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent DCE (GRAMS)	0	0	0	0	0	1	0	1	1	-	1	1	1	1	-	-	-	-	1
Effluent TCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL RW1 CONCENTRATION (MCG/L)	804	804	804	804	804	912	912	912	912	912	912	912	912	912	912	912	912	912	894
TOTAL RW2 CONCENTRATION (MCG/L)	359	359	359	359	359	376	376	376	376	376	376	376	376	376	376	376	376	376	350
RW1 DCE (GRAMS)	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0
RW2 DCE (GRAMS)	1	1	1	0	1	3	2	3	2	2	2	3	2	2	2	3	2	2	6
RW1 TCE (GRAMS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RW2 TCE (GRAMS)	1	1	1	0	1	2	1	2	1	1	1	2	1	1	1	2	1	1	2
RW1 PCE (GRAMS)	5	7	6	2	4	8	4	6	6	6	6	7	6	6	6	7	5	5	7
RW2 PCE (GRAMS)	60	88	76	30	68	119	66	93	86	86	84	100	84	78	71	95	75	71	82
APPROX. RW1 RECOVERY (GRAMS) (2)	6	8	6	2	5	9	5	7	7	7	7	8	7	7	7	8	6	6	8
APPROX. RW2 RECOVERY (GRAMS) (2)	69	90	78	31	69	124	69	97	92	90	87	104	87	82	74	99	78	74	90
TOTAL DCE RECOVERY (GRAMS)	12	16	14	5	11	22	12	18	18	17	17	21	18	19	15	20	16	15	19
TOTAL TCE RECOVERY (GRAMS)	3	3	2	1	2	5	3	4	4	4	4	5	4	4	4	5	4	4	4

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	Week 57	Week 58	Week 59	Week 60	Week 61	Week 62	Week 63	Week 64	Week 65	Week 66	Week 67	Week 68	Week 69	Week 70	Week 71	Week 72	Week 73	Week 74	Week 75
	11/03/1998	11/10/1998	11/17/1998	11/24/1998	12/01/1998	12/08/1998	12/15/1998	12/22/1998	12/29/1998	01/05/1999	01/12/1999	01/19/1999	01/26/1999	02/02/1999	02/11/1999	02/16/1999	02/24/1999	03/03/1999	03/09/1999
RW 1 Gal. of Water (Totalizer 2- Totalizer 1) [1]	2,000	760	899	2,020	1,999	2,906	1,168	-	3,387	1,302	1,952	502	2,137	2,028	2,560	1,362	2,132	1,830	1,722
RW 2 Gal. of Water (Totalizer 2- Totalizer 1) [1]	62,723	22,717	26,454	59,120	59,894	81,550	26,465	59,194	53,447	36,240	55,292	13,367	52,254	48,537	64,897	33,723	53,365	46,354	40,558
RW1 DCE Concentrations (MCG/L)	38	38	38	38	38	38	38	38	38	38	38	49	49	49	49	49	49	68	68
RW2 DCE Concentrations (MCG/L)	23	23	23	23	23	23	23	23	23	23	23	18	18	18	18	18	18	18	18
RW1 TCE Concentrations (MCG/L)	36	36	36	36	36	36	36	36	36	36	36	25	25	25	25	25	25	31	31
RW2 TCE Concentrations (MCG/L)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
RW1 PCE Concentrations (MCG/L)	820	820	820	820	820	820	820	820	820	820	820	610	610	610	610	610	610	410	410
RW2 PCE Concentrations (MCG/L)	320	320	320	320	320	320	320	320	320	320	320	280	280	280	280	280	280	290	290
Effluent DCE Concentrations (MCG/L)	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent TCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent DCE (GRAMS)	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent TCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL RW1 CONCENTRATION (MCG/L)	894	894	894	894	894	894	894	894	894	894	894	682	682	682	682	682	682	709	709
TOTAL RW2 CONCENTRATION (MCG/L)	350	350	350	350	350	350	350	350	350	350	350	305	305	305	305	305	305	316	316
RW1 DCE (GRAMS)	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
RW2 DCE (GRAMS)	5	2	2	5	5	7	2	5	5	3	5	1	4	3	4	2	4	3	3
RW1 TCE (GRAMS)	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
RW2 TCE (GRAMS)	2	1	1	2	2	2	1	2	2	1	1	0	1	1	2	1	1	1	1
RW1 PCE (GRAMS)	6	2	3	6	6	9	4	-	11	4	6	1	5	5	6	3	5	3	3
RW2 PCE (GRAMS)	76	28	32	72	73	99	32	72	65	44	67	14	55	31	69	30	57	41	45
APPROX. RW1 RECOVERY (GRAMS) (2)	7	3	3	7	7	10	4	-	11	4	7	1	6	5	7	4	6	4	3
APPROX. RW2 RECOVERY (GRAMS) (2)	83	30	35	78	79	108	35	78	71	48	73	15	60	56	75	33	62	55	49
TOTAL DCE RECOVERY (GRAMS)	17	6	7	16	16	23	9	16	16	11	16	3	11	10	13	7	11	11	10
TOTAL TCE RECOVERY (GRAMS)	4	1	2	4	4	5	2	3	4	2	4	0	2	1	2	1	2	3	3

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	Week 76	Week 77	Week 78	Week 79	Week 80	Week 81	Week 82	Week 83	Week 84	Week 85	Week 86	Week 87	Week 88	Week 89	Week 90	Week 91	Week 92	Week 93	Week 94	Week 95
	03/16/1999	03/23/1999	03/30/1999	04/06/1999	04/13/1999	04/20/1999	04/29/1999	05/03/1999	05/12/1999	05/17/1999	05/29/1999	06/07/1999	06/12/1999	06/28/1999	07/06/1999	07/13/1999	07/20/1999	07/27/1999	08/03/1999	08/10/1999
RW 1 Gal. of Water (Totalizer 2- Totalizer 1) [1]	1,893	1,876	1,864	1,878	1,829	1,789	2,266	1,003	2,355	849	3,089	2,280	1,482	3,573	1,977	336	1,650	1,668	1,662	1,650
RW 2 Gal. of Water (Totalizer 2- Totalizer 1) [1]	44,927	44,385	42,895	44,888	44,510	45,074	64,380	30,327	70,347	25,611	-	-	-	-	-	-	-	-	67,382	56,715
RW1 DCE Concentrations (MCG/L)	68	68	68	68	68	68	68	68	68	68	68	68	68	63	63	63	63	63	63	63
RW2 DCE Concentrations (MCG/L)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
RW1 TCE Concentrations (MCG/L)	31	31	31	31	31	31	31	31	31	31	31	31	31	19	19	19	19	19	19	19
RW2 TCE Concentrations (MCG/L)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
RW1 PCE Concentrations (MCG/L)	410	410	410	410	410	410	410	410	410	410	410	410	410	170	170	170	170	170	170	170
RW2 PCE Concentrations (MCG/L)	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290
Effluent DCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent TCE Concentrations (MCG/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent DCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Effluent TCE (GRAMS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL RW1 CONCENTRATION (MCG/L)	509	509	509	509	509	509	509	509	509	509	509	509	509	252	252	252	252	252	252	252
TOTAL RW2 CONCENTRATION (MCG/L)	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316
RW1 DCE (GRAMS)	0	0	0	0	0	0	1	0	1	0	1	1	0	1	0	0	0	0	0	0
RW2 DCE (GRAMS)	3	3	3	3	3	3	4	2	5	2	-	-	-	-	-	-	-	-	5	4
RW1 TCE (GRAMS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RW2 TCE (GRAMS)	1	1	1	1	1	1	2	1	2	1	-	-	-	-	-	-	-	-	2	2
RW1 PCE (GRAMS)	3	3	3	3	3	3	4	2	4	1	5	4	2	2	1	0	1	1	1	1
RW2 PCE (GRAMS)	49	49	47	49	49	50	71	33	81	28	-	-	-	-	-	-	-	-	74	62
APPROX. RW1 RECOVERY (GRAMS) (2)	4	4	4	4	4	3	4	2	5	2	6	4	3	3	2	0	2	2	2	2
APPROX. RW2 RECOVERY (GRAMS) (2)	54	53	51	54	53	54	77	36	88	31	-	-	-	-	-	-	-	-	81	68
TOTAL DCE RECOVERY (GRAMS)	11	10	10	11	11	11	15	7	16	6	15	11	7	32	18	2	15	15	19	19
TOTAL TCE RECOVERY (GRAMS)	3	3	3	3	3	3	4	2	5	2	3	3	2	6	4	1	3	3	5	5

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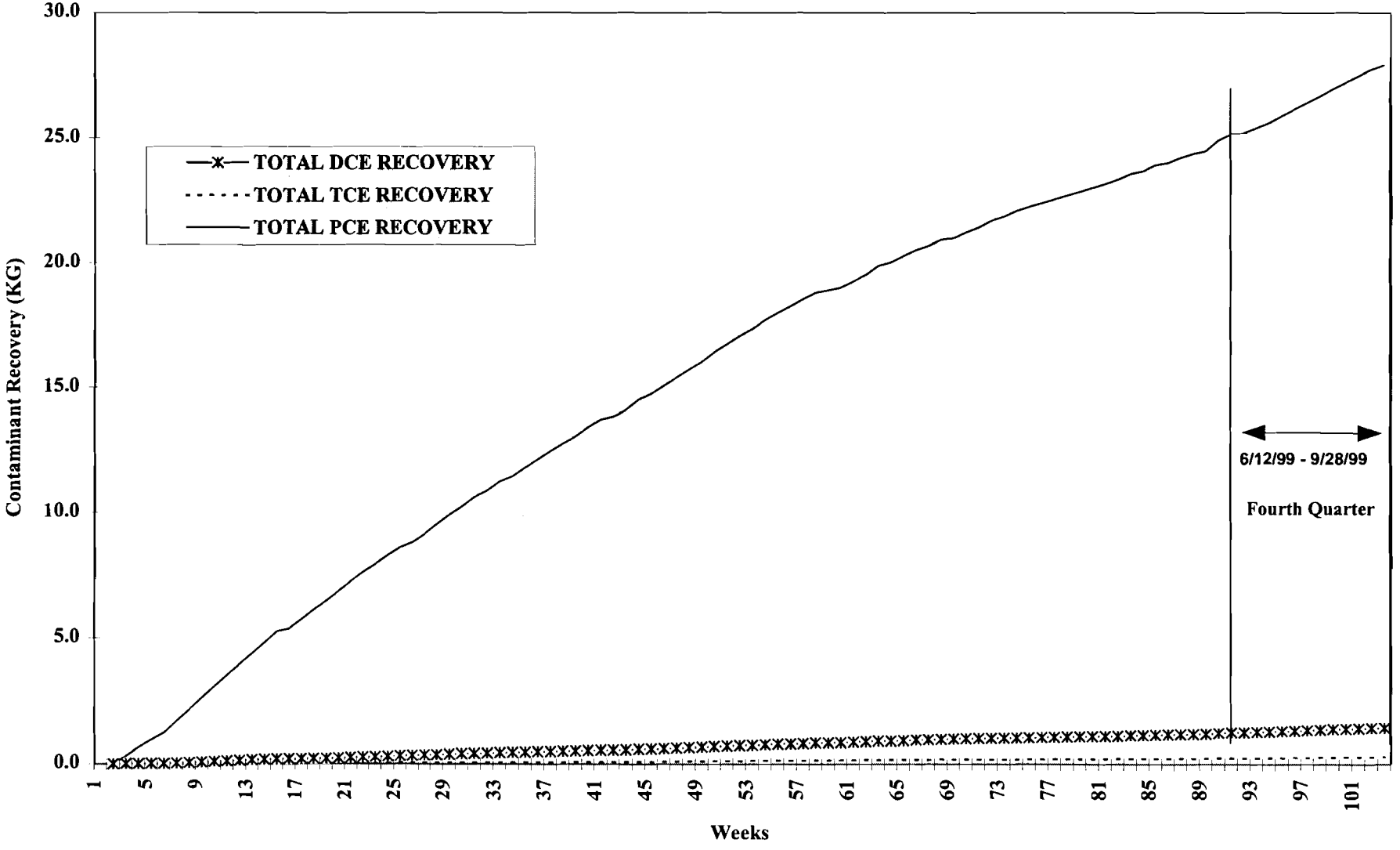
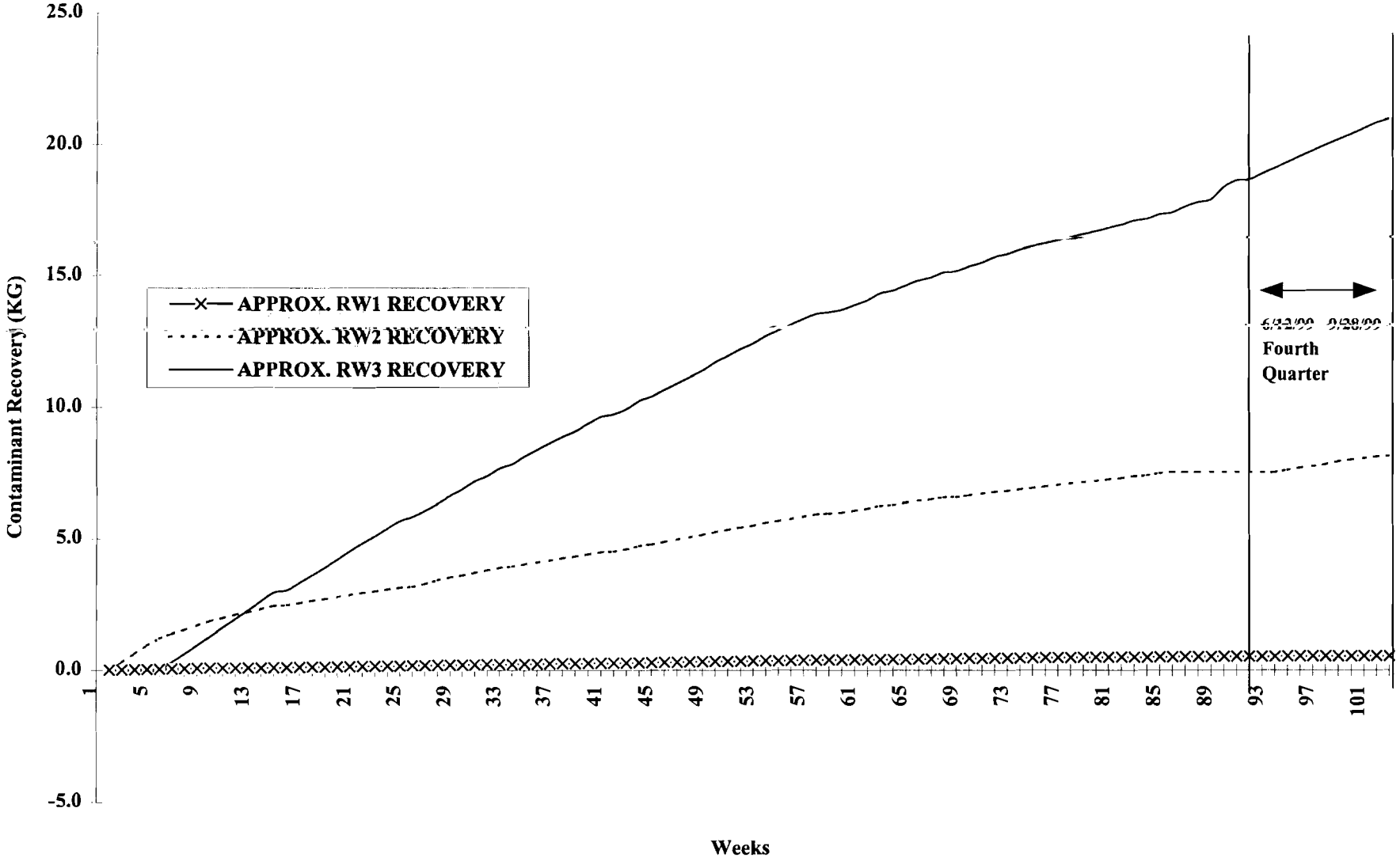
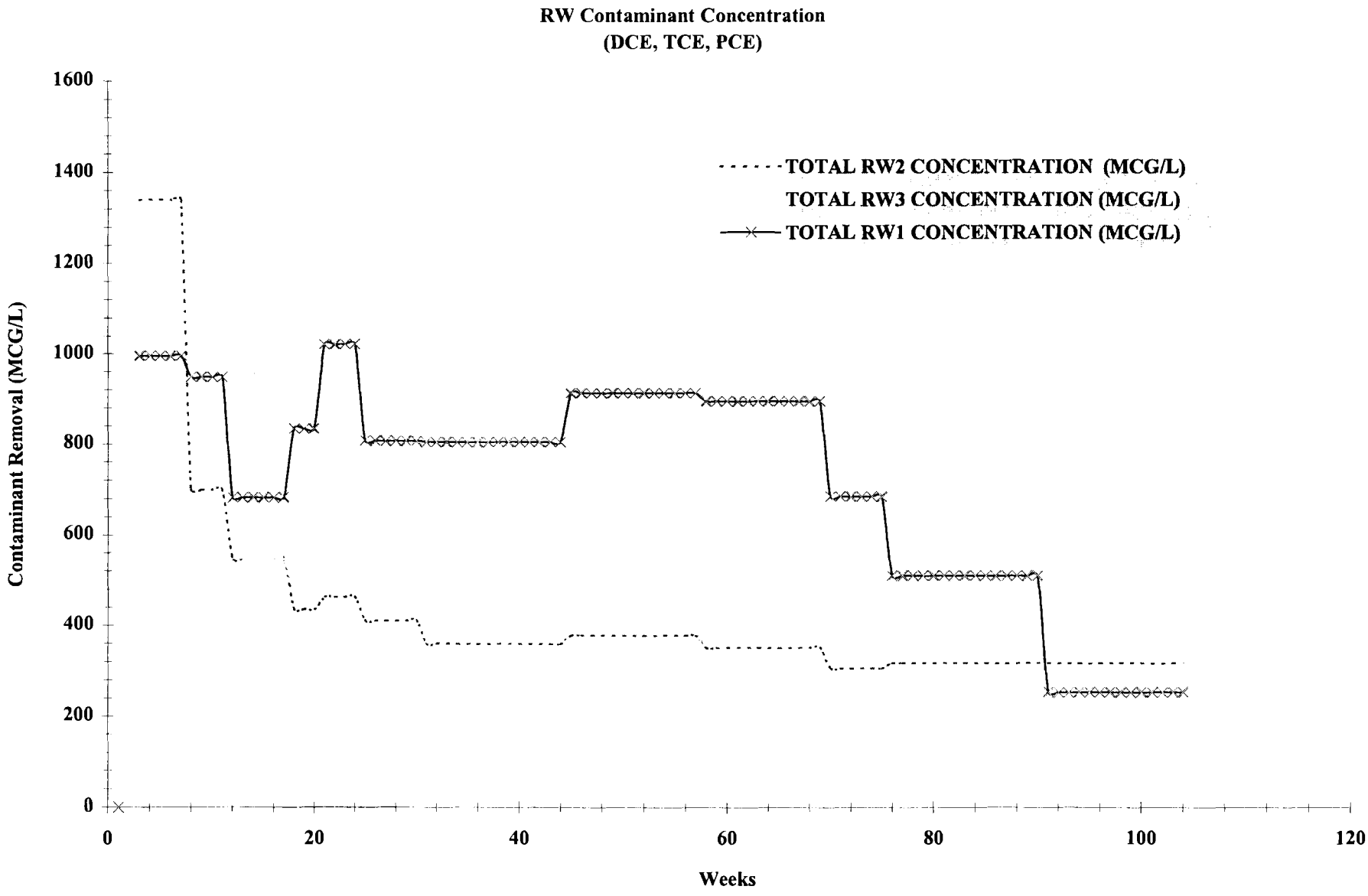
	Week 96	Week 97	Week 98	Week 99	Week 100	Week 101	Week 102
	08/17/1999	08/24/1999	08/31/1999	09/07/1999	09/14/1999	09/21/1999	09/28/1999
RW 1 Gal. of Water (Totalizer 2- Totalizer 1) (1)	1,603	1,647	1,671	1,770	1,817	1,764	1,260
RW 2 Gal. of Water (Totalizer 2- Totalizer 1) (1)	55,519	55,707	90,926	56,428	53,064	49,919	34,193
RW1 DCE Concentrations (MCG/L)	63	63	63	63	63	63	63
RW2 DCE Concentrations (MCG/L)	18	18	18	18	18	18	18
RW1 TCE Concentrations (MCG/L)	19	19	19	19	19	19	19
RW2 TCE Concentrations (MCG/L)	8	8	8	8	8	8	8
RW1 PCE Concentrations (MCG/L)	170	170	170	170	170	170	170
RW2 PCE Concentrations (MCG/L)	290	290	290	290	290	290	290
Effluent DCE Concentrations (MCG/L)	-	-	-	-	-	-	-
Effluent TCE Concentrations (MCG/L)	-	-	-	-	-	-	-
Effluent DCE (GRAMS)	-	-	-	-	-	-	-
Effluent TCE (GRAMS)	-	-	-	-	-	-	-
~~TOTAL RW1 CONCENTRATION (MCG/L)~~	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL RW2 CONCENTRATION (MCG/L)	316	316	316	316	316	316	316
RW1 DCE (GRAMS)	0	0	0	0	0	0	0
RW2 DCE (GRAMS)	4	4	6	4	4	3	2
RW1 TCE (GRAMS)	0	0	0	0	0	0	0
RW2 TCE (GRAMS)	3	3	5	3	3	3	1
RW1 PCE (GRAMS)	1	1	1	1	1	1	1
RW2 PCE (GRAMS)	61	61	100	62	56	55	38
APPROX. RW1 RECOVERY (GRAMS) (2)	2	2	2	2	2	2	1
APPROX. RW2 RECOVERY (GRAMS) (2)	66	67	109	68	64	60	41
TOTAL DCE RECOVERY (GRAMS)	18	19	20	18	18	18	13
TOTAL TCE RECOVERY (GRAMS)	5	5	6	5	5	5	3

Cumulative Contaminant Recovery by Contaminant
(Combined Influent Samples)



Cumulative Contaminant Recovery by Recovery Wells
(DCE, TCE, PCE)




RW Contaminant Concentration
(DCE, TCE, PCE)
TOTAL RW2 CONCENTRATION (MCG/L)
TOTAL RW3 CONCENTRATION (MCG/L)
TOTAL RW1 CONCENTRATION (MCG/L)
Contaminant Removal (MCG/L)
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
Weeks

APPENDIX D

Monitoring Well Contamination Summary

Roxy Cleaners Site No. 442024
Malcolm Pirnie Project No. 0266330

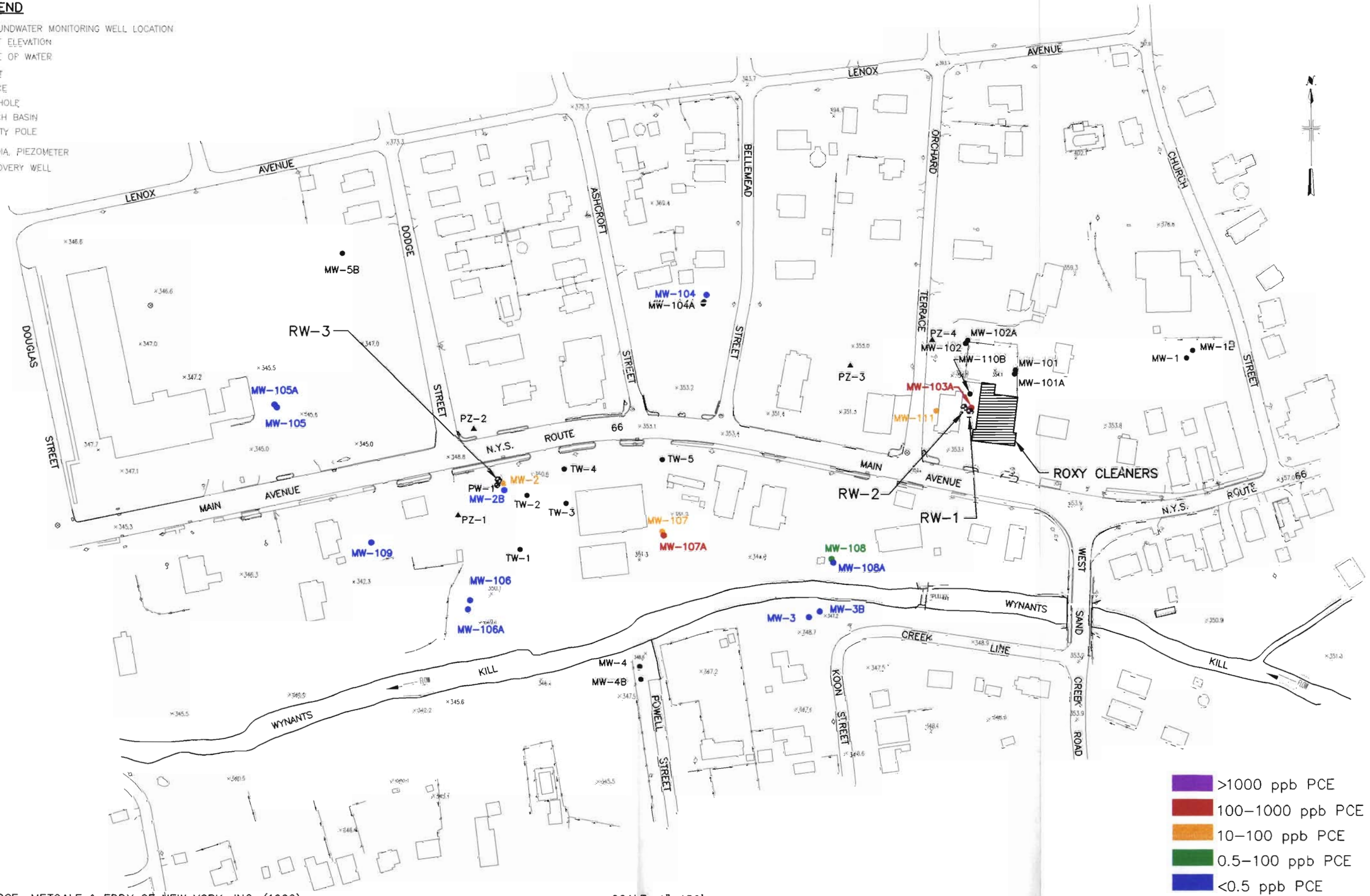
Monitoring Well Contamination Summary

MONITORING WELLS	07/17/1997			11/04/1997			07/14/1998			11/04/1998			07/14/1999		
	1,2 DCE	TCE	PCE	1,2 DCE	TCE	PCE	1,2 DCE	TCE	PCE	1,2 DCE	TCE	PCE	1,2 DCE	TCE	PCE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
MW-103A	18	24	3200	0	7	560	12	8	1200	0	2.6	160	6.1	6	690
MW-107A	19.5	11	360	30	12	440	24	11	500	18	11	340	14	6.7	230
MW-2	5.6	0.5	160	9	0	140	9	0	170	2.1	0	57	0	0	32
MW-107	20.9	20	150	30	12	440	15	20	88	14	17	120	6	19	44
MW-111	0.5	0.7	8.9	8	4	58	1	2	19	5.3	5.2	57	0	0	22
MW-2B	0	0	0	0	0	1	0.3	0	0	0	0	0	0	0	0
MW-108	0	0	0	0	0	3	0	0	5	0	0	2	0	0	2.2
MW-108A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-106	0	0	0	*	*	*	0	0	0	*	*	*	0	0	0
MW-106A	0	0	0	*	*	*	0	0	0	*	*	*	0	0	0
MW-109	0	0	0	*	*	*	0	0	0	*	*	*	0	0	0
MW-105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-105A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-3	0	0	0	*	*	*	0	0	0	*	*	*	0	0	0
MW-3B	0	0	0	*	*	*	0	0	0.6	*	*	*	0	0	0

Notes:
1) 1,2 DCE = Cis/Trans 1,2 Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
* The following wells were not sampled during this event
2) Complete results have been included in the pages that follow.

LEGEND

- MW ● — GROUNDWATER MONITORING WELL LOCATION
- ×347.5 — SPOT ELEVATION
- EDGE OF WATER
- LIGHT
- FENCE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- ▲ 1" DIA. PIEZOMETER
- RECOVERY WELL



BASE MAP SOURCE: METCALF & EDDY OF NEW YORK, INC. (1992)

SCALE: 1"=150'

MALCOLM PIRNIE

ROXY CLEANERS SITE (NYSDEC #442024)
RENSSELAER COUNTY, NEW YORK

MONITORING WELL CONTAMINATION RESULTS AND LOCATIONS (JULY 14, 1999)

FIGURE 1

4871 0266330900 I:\ACAD\PROJ\0266\3309\330-16 Scale: 1:1800' Date: 12/22/1999 Time: 07:36

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-111

Target Compound List	Detection Limits	Concentration (MCG/L)				
		[illegible]/1997	11/04/1997	[illegible]/1998	11/04/1998	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L					
Acetone	<.5 MCG/L					
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2 - Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L	0.5	8	1	5.3	
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	< .5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	< .5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	< .5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	< .5 MCG/L					
Trichloroethene	<.5 MCG/L	0.7	4	2	5.2	
Dibromochloromethane	< .5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	< .5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	< .5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	<.5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	< .5 MCG/L					
Tetrachloroethene	<.5 MCG/L	8.9	58	19	57	22
1,1,2,2-Tetrachloroethane	< .5 MCG/L					
Toluene	<.5 MCG/L			0.05		
Chlorobenzene	< .5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	< .5 MCG/L					
Total Xylenes	<.5 MCG/L					
PH of Volatile Aliquot		5				
PH was not as low as required by method		YES				
Data Qualifications		PL	J,J,_	J,J,_J		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-103A

Target Compound List	Detection Limit	Concentration (MCG/L) 07/17/1997	11/04/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	< 50. MCG/L					
Bromomethane	< 50. MCG/L					
Vinyl Chloride	< 50. MCG/L					
Chloroethane	< 50. MCG/L					
Methylene Chloride (Dichloromethane)	< 50. MCG/L		11	6		
Acetone	< 50. MCG/L			56		
Carbon Disulfide	< 50. MCG/L					
1,1-Dichloroethene	< 50. MCG/L					
1,1-Dichloroethane	< 50. MCG/L					
2,2-Dichloropropane	< 50. MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	< 50. MCG/L	18		12		6.1
Chloroform	< 50. MCG/L					
1,2-Dichloroethane	< 50. MCG/L					
2-Butanone (Methyl Ethyl Ketone)	< 50. MCG/L					
1,1,1-Trichloroethane	< 50. MCG/L					
Carbon Tetrachloride	< 50. MCG/L					
Bromodichloromethane	< 50. MCG/L					
1,2-Dichloropropane	< 50. MCG/L					
Cis-1,3 Dichloropropene	< 50. MCG/L					
Trichloroethene	< 50. MCG/L	14	7	8	2.6	6
Dibromochloromethane	< 50. MCG/L					
1,1,2-Trichloroethane	< 50. MCG/L					
Benzene	< 50. MCG/L					
Trans-1,3-Dichloropropene	< 50. MCG/L					
Bromoform	< 50. MCG/L					
4-Methyl-2-Pentanone (MIBK)	< 50. MCG/L					
2-Hexanone (Methyl Butyl Ketone)	< 50. MCG/L					
Tetrachloroethene	< 50. MCG/L	1200	560	1200	160	690
1,1,2,2-Tetrachloroethane	< 50. MCG/L					
Toluene	< 50. MCG/L					
Chlorobenzene	< 50. MCG/L					
Ethylbenzene	< 50. MCG/L					
Styrene	< 50. MCG/L					
Total Xylenes	< 50. MCG/L					
PH of Volatile Aliquot		5				
PH was not as low as required by method	< 50. MCG/L	YES				
Data Qualifications			BD,DJ,BD	BD,BD,DJ,DJ,D		_,_,E

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-108

Target Compund List	Detection Limit	Concentration (MCG/L)				
		07/17/1997	11/04/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L					
Acetone	<.5 MCG/L			6		
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2 - Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L					
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	< .5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	< .5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	< .5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	< .5 MCG/L					
Trichloroethene	<.5 MCG/L					
Dibromochloromethane	< .5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	< .5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	< .5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	<.5 MCG/L			5		
2-Hexanone (Methyl Butyl Ketone)	< .5 MCG/L					
Tetrachloroethene	<.5 MCG/L		3	5	2	2.2
1,1,2,2-Tetrachloroethane	< .5 MCG/L					
Toluene	<.5 MCG/L			0.07		
Chlorobenzene	< .5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	< .5 MCG/L					
Total Xylenes	<.5 MCG/L					
PH of Volatile Aliquot		5				
PH was not as low as required by method		YES				
Data Qualifications			BJ	BJ,J,BJ		_,_,E

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-108A

Target Compound List	Detection Limit	Concentration (MCG/L)				
		07/17/1997	11/04/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L					
Acetone	<.5 MCG/L					
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2 - Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L					
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	<.5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	<.5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	<.5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	<.5 MCG/L					
Trichloroethene	<.5 MCG/L					
Dibromochloromethane	<.5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	<.5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	<.5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	<.5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	<.5 MCG/L					
Tetrachloroethene	<.5 MCG/L					
1,1,2,2-Tetrachloroethane	<.5 MCG/L					
Toluene	<.5 MCG/L					
Chlorobenzene	<.5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	<.5 MCG/L					
Total Xylenes	<.5 MCG/L					
PH of Volatile Aliquot		5				
PH was not as low as required by method		YES				
Data Qualifications						

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-107A

Target Compound List	Detection Limit	Concentration (MCG/L) 07/17/1997	11/04/1997	0[illegible]/1998	11/04/1998	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L			1		
Acetone	<.5 MCG/L			18		
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2-Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L	19.5	30	24	18	14
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	<.5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	<.5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	<.5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	<.5 MCG/L					
Trichloroethene	<.5 MCG/L	11	12	11	11	6.7
Dibromochloromethane	<.5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	<.5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	<.5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	<.5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	<.5 MCG/L					
Tetrachloroethene	<.5 MCG/L	360	440	500	340	230
1,1,2,2-Tetrachloroethane	<.5 MCG/L					
Toluene	<.5 MCG/L					
Chlorobenzene	<.5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	<.5 MCG/L					
Total Xylenes	<.5 MCG/L					
PH of Volatile Aliquot		5				
PH was not as low as required by method	<.50 MCG/L	YES				
Data Qualifications		PL	DJ,DJ,BD	BD,BD,DJ,DJ,D		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-107

Target Compound List	Detection Limit	Concentration (MCG/L)				
		07/17/1997	11/04/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L					
Acetone	<.5 MCG/L					
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2,-Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L	20.9	30	15	14	6
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	<.5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	<.5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	<.5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	<.5 MCG/L					
Trichloroethene	<.5 MCG/L	20	12	20	17	10
Dibromochloromethane	<.5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	<.5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	<.5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	<.5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	<.5 MCG/L					
Tetrachloroethene	<.5 MCG/L	150	440	88	120	44
1,1,2,2-Tetrachloroethane	<.5 MCG/L					
Toluene	<.5 MCG/L					
Chlorobenzene	<.5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	<.5 MCG/L					
Total Xylenes	<.5 MCG/L			0.8		
PH of Volatile Aliquot		11				
PH was not as low as required by method	<50 MCG/L	YES				
Data Qualifications			DJ,DJ,BD	J,B, , ,BJ,BJ		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-104

Target Compound List	Detection Limit	Concentration (MCG/L)			
		07/11/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	< 5 MCG/L				
Bromomethane	< 5 MCG/L				
Vinyl Chloride	< 5 MCG/L				
Chloroethane	< 5 MCG/L				
Methylene Chloride (Dichloromethane)	< 5 MCG/L				
Acetone	< 5 MCG/L				
Carbon Disulfide	< 5 MCG/L				
1,1-Dichloroethene	< 5 MCG/L				
1,1-Dichloroethane	< 5 MCG/L				
2,2 - Dichloropropane	< 5 MCG/L				
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L				
Chloroform	< 5 MCG/L				
1,2-Dichloroethane	< 5 MCG/L				
2-Butanone (Methyl Ethyl Keytone)	< 5 MCG/L				
1,1,1-Trichloroethane	< 5 MCG/L				
Carbon Tetrachloride	< 5 MCG/L				
Bromodichloromethane	< 5 MCG/L				
1,2-Dichloropropane	< 5 MCG/L				
Cis-1,3 Dichloropropene	< 5 MCG/L				
Trichloroethene	< 5 MCG/L				
Dibromochloromethane	< 5 MCG/L				
1,1,2-Trichloroethane	< 5 MCG/L				
Benzene	< 5 MCG/L				
Trans-1,3-Dichloropropene	< 5 MCG/L				
Bromoform	< 5 MCG/L				
4-Methyl-2-Pentanone (MIBK)	< 5 MCG/L				
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L				
Tetrachloroethene	< 5 MCG/L				
1,1,2,2-Tetrachloroethane	< 5 MCG/L				
Toluene	< 5 MCG/L		0.3		
Chlorobenzene	< 5 MCG/L				
Ethylbenzene	< 5 MCG/L				
Styrene	< 5 MCG/L				
Total Xylenes	< 5 MCG/L		0.3		
PH of Volatile Aliquot		5			
PH was not as low as required by method		YES			
Data Qualifications			J,BJ		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-105

Target Compund List	Detection Limit	Concentration (MCG/L)			
		07/17/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	< 5 MCG/L				
Bromomethane	< 5 MCG/L				
Vinyl Chloride	< 5 MCG/L				
Chloroethane	< 5 MCG/L				
Methylene Chloride (Dichloromethane)	< 5 MCG/L				
Acetone	< 5 MCG/L				
Carbon Disulfide	< 5 MCG/L				
1,1-Dichloroethene	< 5 MCG/L				
1,1-Dichloroethane	< 5 MCG/L				
2,2 - Dichloropropane	< 5 MCG/L				
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L				
Chloroform	< 5 MCG/L				
1,2-Dichloroethane	< 5 MCG/L				
2-Butanone (Methyl Ethyl Ketone)	< 5 MCG/L				
1,1,1-Trichloroethane	< 5 MCG/L				
Carbon Tetrachloride	< 5 MCG/L				
Bromodichloromethane	< 5 MCG/L				
1,2-Dichloropropane	< 5 MCG/L				
Cis-1,3 Dichloropropene	< 5 MCG/L				
Trichloroethene	< 5 MCG/L				
Dibromochloromethane	< 5 MCG/L				
1,1,2-Trichloroethane	< 5 MCG/L				
Benzene	< 5 MCG/L				
Trans-1,3-Dichloropropene	< 5 MCG/L				
Bromoform	< 5 MCG/L				
4-Methyl-2-Pentanone (MIBK)	< 5 MCG/L				
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L				
Tetrachloroethene	< 5 MCG/L				
1,1,2,2-Tetrachloroethane	< 5 MCG/L				
Toluene	< 5 MCG/L		0.06		
Chlorobenzene	< 5 MCG/L				
Ethylbenzene	< 5 MCG/L				
Styrene	< 5 MCG/L				
Total Xylenes	< 5 MCG/L				
PH of Volatile Aliquot		6			
PH was not as low as required by method		YES			
Data Qualifications			J		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-105A

Target Compound List	Detection Limit	Concentration (MCG/L)			
		07/07/1997	07/14/1997	07/14/1997	07/14/1997
Chloromethane	< 5 MCG/L				
Bromomethane	< 5 MCG/L				
Vinyl Chloride	< 5 MCG/L				
Chloroethane	< 5 MCG/L				
Methylene Chloride (Dichloromethane)	< 5 MCG/L				
Acetone	< 5 MCG/L				
Carbon Disulfide	< 5 MCG/L				
1,1-Dichloroethene	< 5 MCG/L				
1,1-Dichloroethane	< 5 MCG/L				
2,2 - Dichloropropane	< 5 MCG/L				
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L				
Chloroform	< 5 MCG/L				
1,2-Dichloroethane	< 5 MCG/L				
2-Butanone (Methyl Ethyl Keytone)	< 5 MCG/L				
1,1,1-Trichloroethane	< 5 MCG/L				
Carbon Tetrachloride	< 5 MCG/L				
Bromodichloromethane	< 5 MCG/L				
1,2-Dichloropropane	< 5 MCG/L				
Cis-1,3 Dichloropropene	< 5 MCG/L				
Trichloroethene	< 5 MCG/L				
Dibromochloromethane	< 5 MCG/L				
1,1,2-Trichloroethane	< 5 MCG/L				
Benzene	< 5 MCG/L				
Trans-1,3-Dichloropropene	< 5 MCG/L				
Bromoform	< 5 MCG/L				
4-Methyl-2-Pentanone (MIBK)	< 5 MCG/L				
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L				
Tetrachloroethene	< 5 MCG/L				
1,1,2,2-Tetrachloroethane	< 5 MCG/L				
Toluene	< 5 MCG/L				
Chlorobenzene	< 5 MCG/L				
Ethylbenzene	< 5 MCG/L				
Styrene	< 5 MCG/L				
Total Xylenes	< 5 MCG/L				
PH of Volatile Aliquot		6			
PH was not as low as required by method		YES			
Data Qualifications					

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-2

Target Compound List	Detection Limit	Concentration (UG/L)				
		07/18/1996	11/04/1996	07/14/1998	11/04/1998	07/14/1999
Chloromethane	<5 UG/L					
Bromomethane	<5 UG/L					
Vinyl Chloride	<5 UG/L					
Chloroethane	<5 UG/L					
Methylene Chloride (Dichloromethane)	<5 UG/L					
Acetone	<5 UG/L					
Carbon Disulfide	<5 UG/L					
1,1-Dichloroethene	<5 UG/L					
1,1-Dichloroethane	<5 UG/L					
2,2-Dichloropropane	<5 UG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<5 UG/L	5.6	9	9	2.1	
Chloroform	<5 UG/L					
1,2-Dichloroethane	<5 UG/L					
2-Butanone (Methyl Ethyl Ketone)	<5 UG/L					
1,1,1-Trichloroethane	<5 UG/L					
Carbon Tetrachloride	<5 UG/L					
Bromodichloromethane	<5 UG/L					
1,2-Dichloropropane	<5 UG/L					
Cis-1,3 Dichloropropene	<5 UG/L					
Trichloroethene	<5 UG/L	0.5				
Dibromochloromethane	<5 UG/L					
1,1,2-Trichloroethane	<5 UG/L					
Benzene	<5 UG/L					
Trans-1,3-Dichloropropene	<5 UG/L					
Bromoform	<5 UG/L					
4-Methyl-2-Pentanone (MIBK)	<5 UG/L					
2-Hexanone (Methyl Butyl Ketone)	<5 UG/L					
Tetrachloroethene	<5 UG/L	160	140	170	57	32
1,1,2,2-Tetrachloroethane	<5 UG/L					
Toluene	<5 UG/L					
Chlorobenzene	<5 UG/L					
Ethylbenzene	<5 UG/L					
Styrene	<5 UG/L					
Total Xylenes	<5 UG/L					
PH of Volatile Aliquot		6				
PH was not as low as required by method	<50. UG/L	YES				
Data Qualifications		PL,E	J,B	J,		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-2B

Target Compound List	Detection Limit	Concentration (MCG/L)				
		07/07/1997	11/4/97	02/14/1998	7/10/1998	07/14/1998
Chloromethane	< 5 MCG/L					
Bromomethane	< 5 MCG/L					
Vinyl Chloride	< 5 MCG/L					
Chloroethane	< 5 MCG/L					
Methylene Chloride (Dichloromethane)	< 5 MCG/L			0.3		
Acetone	< 5 MCG/L					
Carbon Disulfide	< 5 MCG/L					
1,1-Dichloroethene	< 5 MCG/L					
1,1-Dichloroethane	< 5 MCG/L					
2,2 - Dichloropropane	< 5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L					
Chloroform	< 5 MCG/L					
1,2-Dichloroethane	< 5 MCG/L					
2-Butanone (Methyl Ethyl Keytone)	< 5 MCG/L					
1,1,1-Trichloroethane	< 5 MCG/L					
Carbon Tetrachloride	< 5 MCG/L					
Bromodichloromethane	< 5 MCG/L					
1,2-Dichloropropane	< 5 MCG/L					
Cis-1,3 Dichloropropene	< 5 MCG/L					
Trichloroethene	< 5 MCG/L					
Dibromochloromethane	< 5 MCG/L					
1,1,2-Trichloroethane	< 5 MCG/L					
Benzene	< 5 MCG/L					
Trans-1,3-Dichloropropene	< 5 MCG/L					
Bromoform	< 5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	< 5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L					
Tetrachloroethene	< 5 MCG/L					
1,1,2,2-Tetrachloroethane	< 5 MCG/L					
Toluene	< 5 MCG/L					
Chlorobenzene	< 5 MCG/L					
Ethylbenzene	< 5 MCG/L					
Styrene	< 5 MCG/L					
Total Xylenes	< 5 MCG/L					
PH of Volatile Aliquot		6				
PH was not as low as required by method		YES				
Data Qualifications			BJ	BJ		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-106

Target Compound List	Detection Limit	Concentration (MCG/L) 07/17/1998	11/04/1998	07/14/1999	11/04/1999	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L			0.2		
Acetone	<.5 MCG/L					
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2 - Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L					
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	<.5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	<.5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	<.5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	<.5 MCG/L					
Trichloroethene	<.5 MCG/L					
Dibromochloromethane	<.5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	<.5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	<.5 MCG/L					
4-Methyl-2-Pentatone (MIBK)	<.5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	<.5 MCG/L					
Tetrachloroethene	<.5 MCG/L					
1,1,2,2-Tetrachloroethane	<.5 MCG/L					
Toluene	<.5 MCG/L			0.06		
Chlorobenzene	<.5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	<.5 MCG/L					
Total Xylenes	<.5 MCG/L					
PH of Volatile Aliquot		6				
PH was not as low as required by method	<50. MCG/L	ES				
Data Qualifications				BJJ		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-106A

Target Compound List	Detection Limit	Concentration (MCG/L)				
		07/17/1997	07/14/1997	07/14/1998	11/04/1999	07/14/1999
Chloromethane	<.5 MCG/L					
Bromomethane	<.5 MCG/L					
Vinyl Chloride	<.5 MCG/L					
Chloroethane	<.5 MCG/L					
Methylene Chloride (Dichloromethane)	<.5 MCG/L					
Acetone	<.5 MCG/L					
Carbon Disulfide	<.5 MCG/L					
1,1-Dichloroethene	<.5 MCG/L					
1,1-Dichloroethane	<.5 MCG/L					
2,2 - Dichloropropane	<.5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	<.5 MCG/L					
Chloroform	<.5 MCG/L					
1,2-Dichloroethane	<.5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	<.5 MCG/L					
1,1,1-Trichloroethane	<.5 MCG/L					
Carbon Tetrachloride	<.5 MCG/L					
Bromodichloromethane	<.5 MCG/L					
1,2-Dichloropropane	<.5 MCG/L					
Cis-1,3 Dichloropropene	<.5 MCG/L					
Trichloroethene	<.5 MCG/L					
Dibromochloromethane	<.5 MCG/L					
1,1,2-Trichloroethane	<.5 MCG/L					
Benzene	<.5 MCG/L					
Trans-1,3-Dichloropropene	<.5 MCG/L					
Bromoform	<.5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	<.5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	<.5 MCG/L					
Tetrachloroethene	<.5 MCG/L					
1,1,2,2-Tetrachloroethane	<.5 MCG/L					
Toluene	<.5 MCG/L					
Chlorobenzene	<.5 MCG/L					
Ethylbenzene	<.5 MCG/L					
Styrene	<.5 MCG/L	0.5				
Total Xylenes	<.5 MCG/L					
PH of Volatile Aliquot		6				
PH was not as low as required by method	<.50 MCG/L	YES				
Data Qualifications		PL				

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-109

Target Compound List	Detection Limit	Concentration (MCG/L)				
		07/17/1997	11/04/1997	07/14/1998	11/04/1998 #	07/14/1999
Chloromethane	< 5 MCG/L					
Bromomethane	< 5 MCG/L					
Vinyl Chloride	< 5 MCG/L					
Chloroethane	< 5 MCG/L					
Methylene Chloride (Dichloromethane)	< 5 MCG/L					
Acetone	< 5 MCG/L					
Carbon Disulfide	< 5 MCG/L					
1,1-Dichloroethene	< 5 MCG/L					
1,1-Dichloroethane	< 5 MCG/L					
2,2-Dichloropropane	< 5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L					
Chloroform	< 5 MCG/L					
1,2-Dichloroethane	< 5 MCG/L					
2-Butanone (Methyl Ethyl Ketone)	< 5 MCG/L					
1,1,1-Trichloroethane	< 5 MCG/L					
Carbon Tetrachloride	< 5 MCG/L					
Bromodichloromethane	< 5 MCG/L					
1,2-Dichloropropane	< 5 MCG/L					
Cis-1,3 Dichloropropene	< 5 MCG/L					
Trichloroethene	< 5 MCG/L					
Dibromochloromethane	< 5 MCG/L					
1,1,2-Trichloroethane	< 5 MCG/L					
Benzene	< 5 MCG/L					
Trans-1,3-Dichloropropene	< 5 MCG/L					
Bromoform	< 5 MCG/L					
4-Methyl-2-Pentatone (MIBK)	< 5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L					
Tetrachloroethene	< 5 MCG/L					
1,1,2,2-Tetrachloroethane	< 5 MCG/L					
Toluene	< 5 MCG/L					
Chlorobenzene	< 5 MCG/L					
Ethylbenzene	< 5 MCG/L					
Styrene	< 5 MCG/L					
Total Xylenes	< 5 MCG/L					
PH of Volatile Aliquot		6				
PH was not as low as required by method		YES				
Data Qualifications						

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-3

Target Compound List...	Detection Limit	Concentration (MCG/L)				
		07/17/1997	11/04/1997	07/14/1998	11/04/1998	07/14/1999
Chloromethane	< 5 MCG/L					
Bromomethane	< 5 MCG/L					
Vinyl Chloride	< 5 MCG/L					
Chloroethane	< 5 MCG/L					
Methylene Chloride (Dichloromethane)	< 5 MCG/L					
Acetone	< 5 MCG/L					
Carbon Disulfide	< 5 MCG/L					
1,1-Dichloroethene	< 5 MCG/L					
1,1-Dichloroethane	< 5 MCG/L					
2,2 - Dichloropropane	< 5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L					
Chloroform	< 5 MCG/L					
1,2-Dichloroethane	< 5 MCG/L					
2-Butanone (Methyl Ethyl Keytone)	< 5 MCG/L					
1,1,1-Trichloroethane	< 5 MCG/L					
Carbon Tetrachloride	< 5 MCG/L					
Bromodichloromethane	< 5 MCG/L					
1,2-Dichloropropene	< 5 MCG/L					
Cis-1,3 Dichloropropene	< 5 MCG/L					
Trichloroethene	< 5 MCG/L					
Dibromochloromethane	< 5 MCG/L					
1,1,2-Trichloroethane	< 5 MCG/L					
Benzene	< 5 MCG/L					
Trans-1,3-Dichloropropene	< 5 MCG/L					
Bromoform	< 5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	< 5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L					
Tetrachloroethene	< 5 MCG/L					
1,1,2,2-Tetrachloroethane	< 5 MCG/L					
Toluene	< 5 MCG/L					
Chlorobenzene	< 5 MCG/L					
Ethylbenzene	< 5 MCG/L					
Styrene	< 5 MCG/L					
Total Xylenes	< 5 MCG/L					
PH of Volatile Aliquot		6				
PH was not as low as required by method		YES				
Data Qualifications						

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

New York State Department of Health
Wadworth Center
Results of Examination

Location: Roxy Cleaners Groundwater Treatment System #0266330
Description: Test Well, MW-3B

Target Compound List	Detection Limit	Concentration (MCG/L)				
		07/17/1997	11/04/1997	07/14/1998	11/06/1998	07/14/1999
Chloromethane	< 5 MCG/L					
Bromomethane	< 5 MCG/L					
Vinyl Chloride	< 5 MCG/L					
Chloroethane	< 5 MCG/L					
Methylene Chloride (Dichloromethane)	< 5 MCG/L					
Acetone	< 5 MCG/L					
Carbon Disulfide	< 5 MCG/L					
1,1-Dichloroethene	< 5 MCG/L					
1,1-Dichloroethane	< 5 MCG/L					
2,2 - Dichloropropane	< 5 MCG/L					
Cis/Trans 1,2-Dichloroethene (Total)	< 5 MCG/L					
Chloroform	< 5 MCG/L					
1,2-Dichloroethane	< 5 MCG/L					
2-Butanone (Methyl Ethyl Keytone)	< 5 MCG/L					
1,1,1-Trichloroethane	< 5 MCG/L					
Carbon Tetrachloride	< 5 MCG/L					
Bromodichloromethane	< 5 MCG/L					
1,2-Dichloropropane	< 5 MCG/L					
Cis-1,3 Dichloropropene	< 5 MCG/L					
Trichloroethene	< 5 MCG/L					
Dibromochloromethane	< 5 MCG/L					
1,1,2-Trichloroethane	< 5 MCG/L					
Benzene	< 5 MCG/L					
Trans-1,3-Dichloropropene	< 5 MCG/L					
Bromoform	< 5 MCG/L					
4-Methyl-2-Pentanone (MIBK)	< 5 MCG/L					
2-Hexanone (Methyl Butyl Ketone)	< 5 MCG/L					
Tetrachloroethene	< 5 MCG/L			0.6		
1,1,2,2-Tetrachloroethane	< 5 MCG/L					
Toluene	< 5 MCG/L					
Chlorobenzene	< 5 MCG/L					
Ethylbenzene	< 5 MCG/L					
Styrene	< 5 MCG/L					
Total Xylenes	< 5 MCG/L					
PH of Volatile Aliquot		5				
PH was not as low as required by method		YES				
Data Qualifications				J		

Note: Data qualifications are in the order that they appear on the data sheets.

B = This flag is used when the analyte is found in the associated blank as well as the sample.

J = This flag indicates an estimated value.

D = This flag indicates all compounds identified in an analysis at a secondary dilution factor.

APPENDIX E

Monitoring Well Contour Maps

LEGEND

- CATCH BASIN
- POLE / PILE
- MONITORING PIEZOMETER
- RECOVERY WELL
- 324.31 WATER LEVEL ELEVATION
- 340 POTENTIOMETRIC CONTOUR ELEVATIONS
- MW ● GROUNDWATER MONITORING WELL LOCATION
- SPOT ELEVATION
- EDGE OF WATER
- LIGHT
- FENCE
- MANHOLE

LENOX AVENUE
DODGE STREET
ASHCROFT
BELLEMEAD
ORCHARD TERRACE
CHURCH STREET
DOUGLAS STREET
MAIN AVENUE
ROUTE 66
N.Y.S.
WYNANTS KILL
POWELL STREET
KOON STREET
WEST SAND CREEK ROAD
CREEK LINE
SPILLWAY
ROXY CLEANERS
N.

MW-5B
MW-102
344.34 MW-102A
MW-104
MW-104A DRY
PZ-4
MW-110B
MW-101
MW-101A 347.50
MW-1B
MW-1 350.55
PZ-3 343
344.33 MW-103A
343.72 MW-111
RW-3 320.99
338.09 MW-105A MW-105
PZ-2 338
PW-1
MW-2
TW-4
TW-2
TW-3
TW-5
MW-2B
TW-1
PZ-1 340.84
RW-2 342.80
RW-1 321.48
MW-107
MW-107A 343.75
MW-108
MW-108A 343.52
MW-109 338.04
MW-106 340.17
MW-106A
MW-3B
MW-3 342.14
340.93 MW-4
MW-4B

338 339 340 341 342 343 344 345 346 347 348 349 350

BASE MAP SOURCE: METCALF & EDDY OF NEW YORK, INC. (1992)

SCALE: 1"=150'

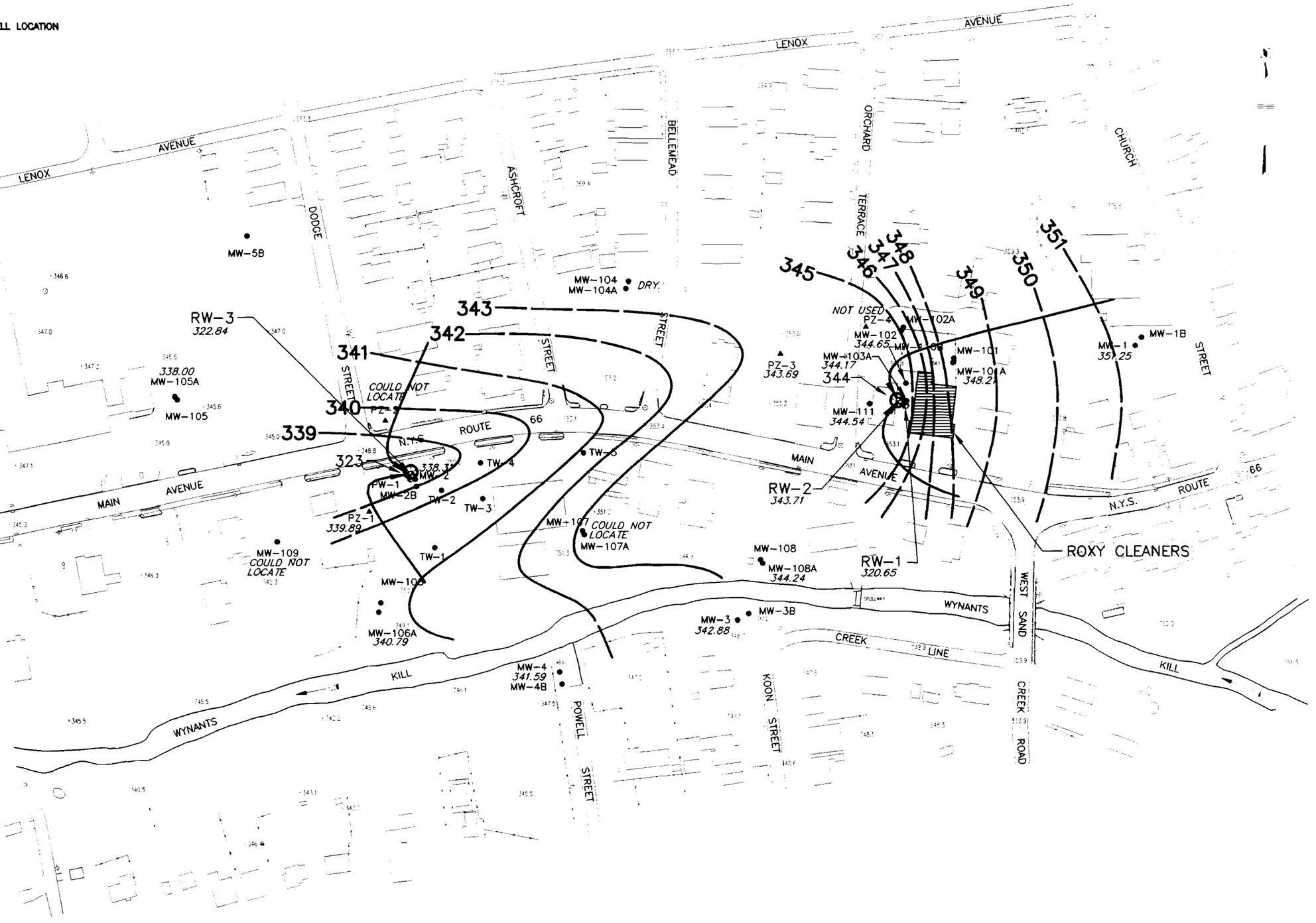
MALCOLM PIRNIE

ROXY CLEANERS SITE (NYSDEC #442024)
RENSSELAER COUNTY, NEW YORK

UNCONSOLIDATED POTENTIOMETRIC CONTOUR MAP (OCTOBER 20, 1998)

LEGEND

- MW ● GROUNDWATER MONITORING WELL LOCATION
- ×347.5 SPOT ELEVATION
- EDGE OF WATER
- LIGHT
- FENCE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- 1" DIA. PIEZOMETER
- RECOVERY WELL



BASE MAP SOURCE: METCALF & EDDY OF NEW YORK, INC. (1992)

SCALE: 1"=150'

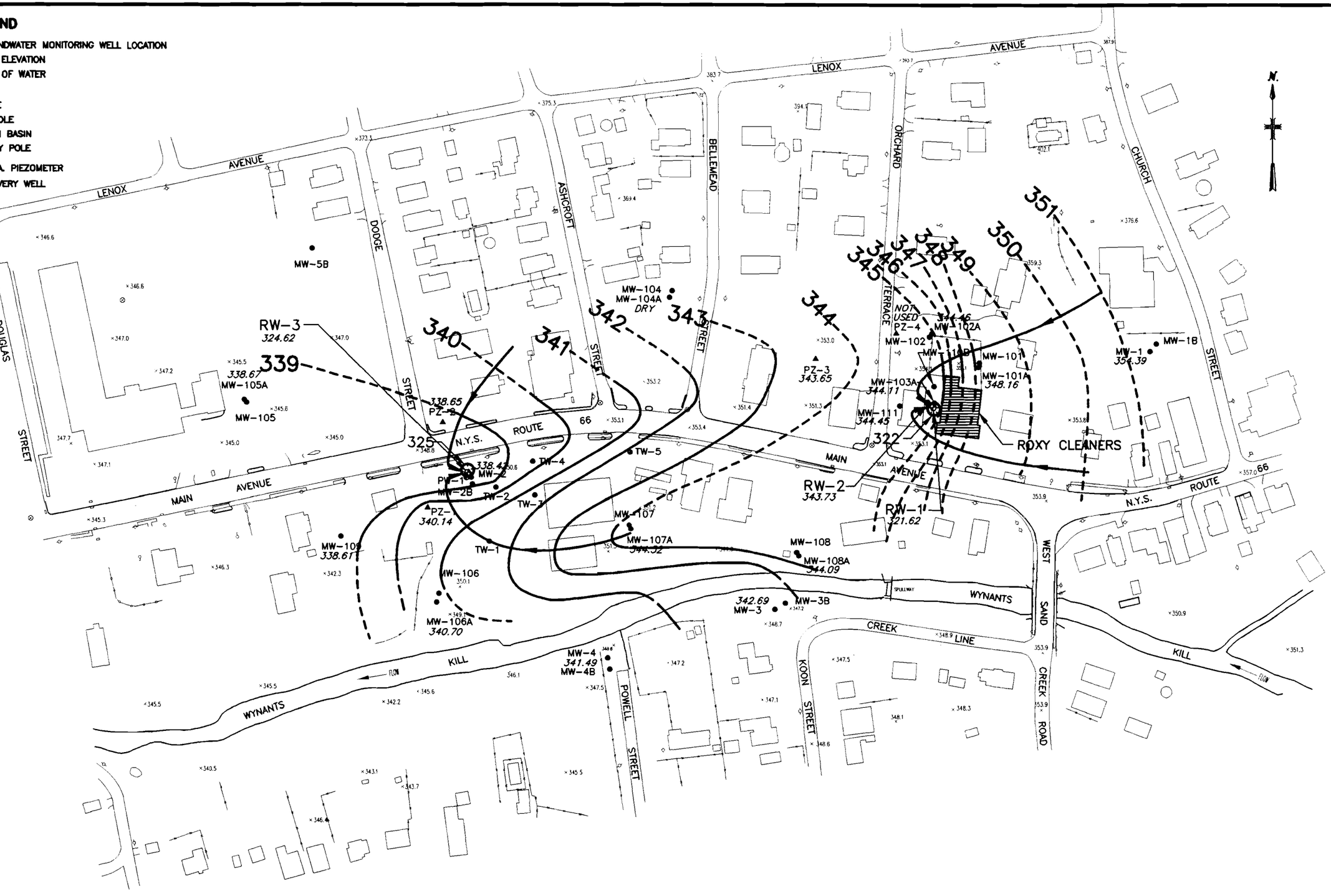
MALCOLM PIRNIE

ROXY CLEANERS SITE (NYSDEC #442024)
RENSSELAER COUNTY, NEW YORK

UNCONSOLIDATED POTENTIOMETRIC CONTOUR MAP, JANUARY 21, 1999

LEGEND

- MW ○ GROUNDWATER MONITORING WELL LOCATION
- ×347.5 SPOT ELEVATION
- EDGE OF WATER
- LIGHT
- FENCE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- 1" DIA. PIEZOMETER
- RECOVERY WELL



BASE MAP SOURCE: METCALF & EDDY OF NEW YORK, INC. (1992)

SCALE: 1"=150'

MALCOLM PIRNIE

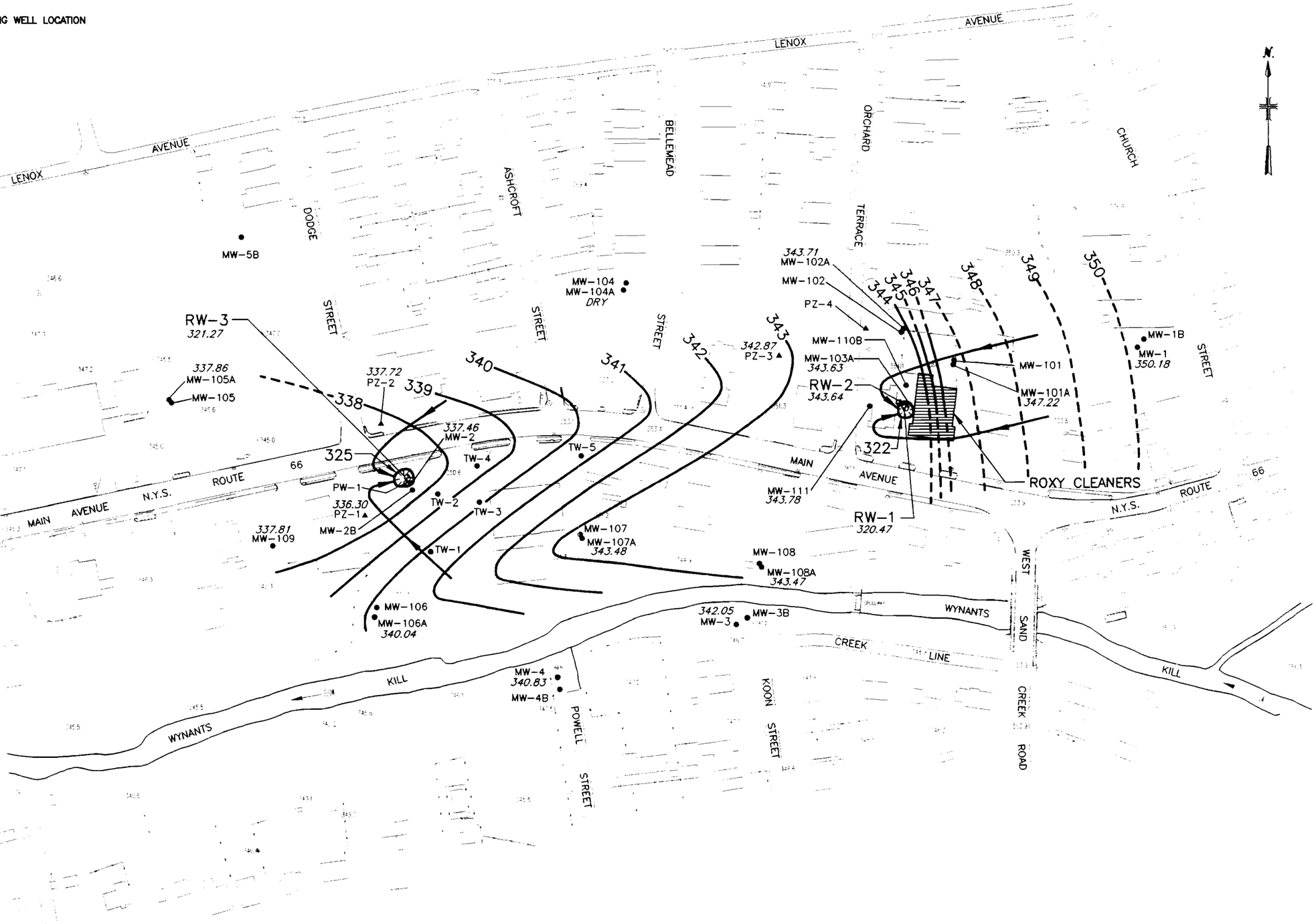
ROXY CLEANERS SITE (NYSDEC #442024)
RENSSELAER COUNTY, NEW YORK

UNCONSOLIDATED POTENTIOMETRIC CONTOUR MAP MARCH 3, 1999

7808 2384002900 I:\ACAD\PROJ\0266\3309\330-13 Scale: 1:1800i Date: 03/15/1999 Time: 16:29

LEGEND

- MW ○ — GROUNDWATER MONITORING WELL LOCATION
- ×347.5 — SPOT ELEVATION
- EDGE OF WATER
- LIGHT
- FENCE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- ▲ 1" DIA. PIEZOMETER
- RECOVERY WELL



BASE MAP SOURCE: METCALF & EDDY OF NEW YORK, INC. (1992)

SCALE: 1"=150'

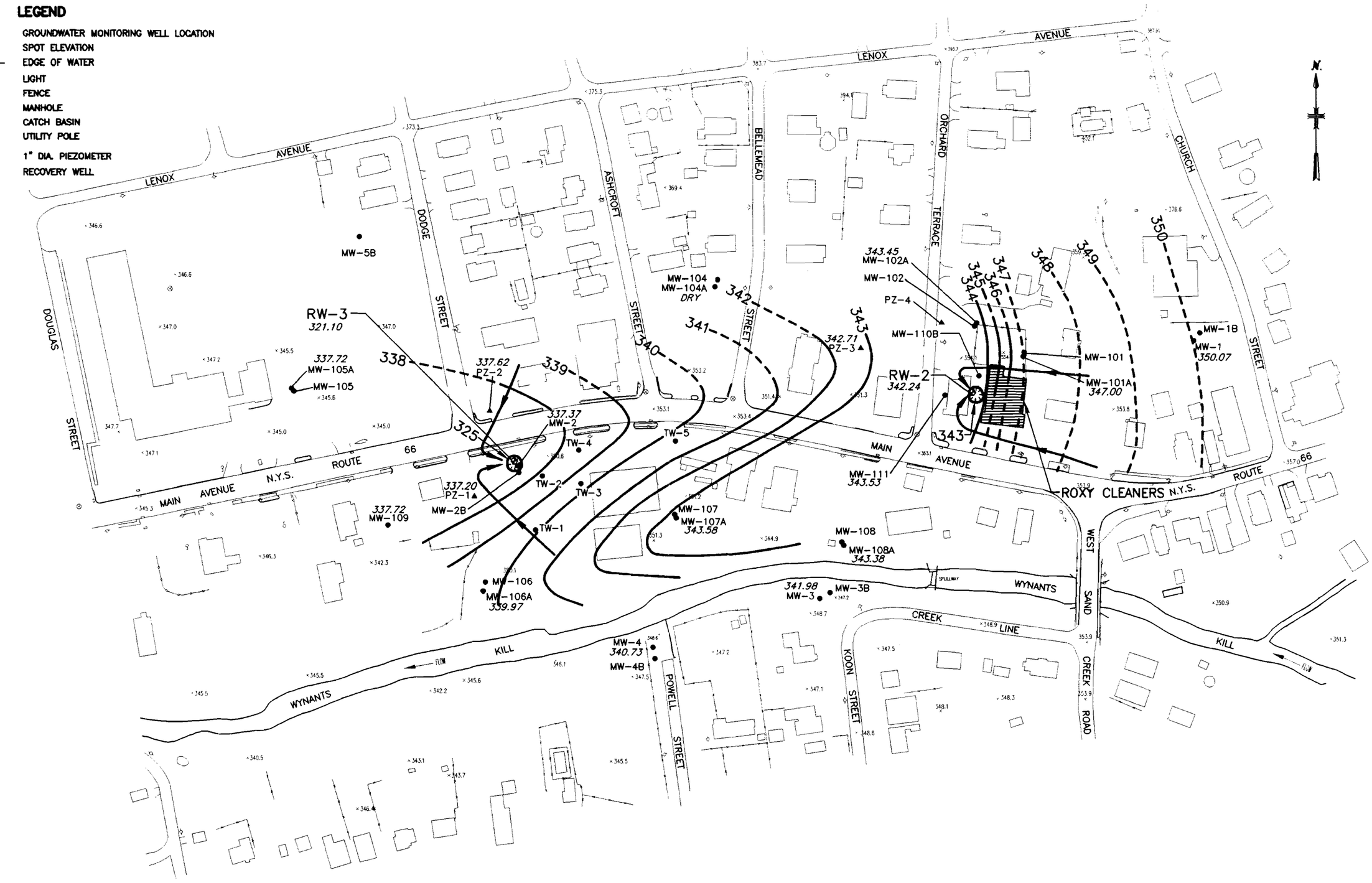
MALCOLM PIRNIE

ROXY CLEANERS SITE (NYSDEC #442024)
RENSSELAER COUNTY, NEW YORK

UNCONSOLIDATED POTENTIOMETRIC CONTOUR MAP, JUNE 19, 1999

LEGEND

- MW ⊙ — GROUNDWATER MONITORING WELL LOCATION
- ×347.5 — SPOT ELEVATION
- EDGE OF WATER
- LIGHT
- FENCE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- ▲ 1" DIA. PIEZOMETER
- RECOVERY WELL



BASE MAP SOURCE: METCALF & EDDY OF NEW YORK, INC. (1992)

SCALE: 1"=150'

MALCOLM PIRNIE

ROXY CLEANERS SITE (NYSDEC #442024)
RENSSELAER COUNTY, NEW YORK

UNCONSOLIDATED POTENTIOMETRIC CONTOUR MAP, SEPTEMBER 14, 1999

4871 0266330900 I:\ACAD\PROJ\0266\3309\330-15 Scale: 1:1i Date: 10/27/1999 Time: 15:31