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INTERIM MEASURES PROGRESS REPORT

Period of October 1999 through October 2000

ALCATEL NETWORK SYSTEMS, INC.
2912 Wake Forest Road
Raleigh, North Carolina 27609

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DECEMBER 2000

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NORTH CAROLINA PROFESSIONAL SEAL 7747 ENGINEER RAY STANLEY TAYLOR

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Technical Director

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1.0 INTRODUCTION AND BACKGROUND

This report is the seventh *Interim Measures Progress Report* (IMPR) and covers the period from October 1999 through October 2000, for the ALCATEL NETWORK SYSTEMS, INC. (ALCATEL), Raleigh facility. This report meets the semi-annual monitoring and sampling requirements in accordance with the Division of Water Quality under ALCATEL's Groundwater Remediation Permit #WQ0012221 and the guidelines set forth by Mr. Tom Walker of the Hazardous Waste Section. This report includes the results of groundwater sampling and analyses, system influent and effluent sampling and analyses, potentiometric groundwater surface maps, VOC concentration maps, analysis of the system effectiveness, conclusions and recommendations.

No guidance documents specifically govern the format of this report. However, the framework was designed after Chapter Ten (Progress Report), of the USEPA, *RCRA Corrective Action Plan,* OSWER Directive 9902.3-2A. Comments from the North Carolina Department of Environment and Natural Resources (NCDENR) regarding the format were considered in the completion of this report. In addition to the aforementioned references, the reporting requirements established in ALCATEL's NPDES permit, No. NC0086126, are included.

The ALCATEL facility is located at 2912 Wake Forest Road in the City of Raleigh, Wake County, North Carolina. The facility is located in an industrial-zoned area near the intersection of Wake Forest Road and the Raleigh Belt-Line (I-440) (**Figure 1**). The facility, situated on a 24-acre site, consists of a 234,000 ft^2 main building, storage and maintenance buildings, security buildings, parking lots, and landscaped "natural" areas. The main building is now used for business administration and research and development. The site layout is shown in **Figure 2**. The Kellogg Corporation, a division of ITT, began operation of the facility in 1958. At that time, the facility produced electronic and telecommunications equipment. In 1987, ALCATEL Network Systems Corporation bought the facility. Electroplating operations were conducted at the facility as part of printed circuit board manufacturing until 1990.

During the time that the facility conducted manufacturing processes, a wastewater treatment plant (WWTP) was in operation at the site. The WWTP treated 300,000 to 400,000 gallons of wastewater per day. The wastewater was generated from several sources including the printed circuit board manufacturing area, the non-contact cooling/heating water, the compressor drainage water, and the cooling tower water. Treated effluent generated by the WWTP was discharged to the City of Raleigh publicly owned treatment works (POTW). Processes that generated hazardous waste at the facility ceased in 1990 when the electroplating operations at the facility ended.

Through voluntary assessment actions conducted at the site and implementation of the October 1994, *RCRA Facility Investigation (*RFI*) Work Plan*, impacted soil and groundwater have been assessed. The RFI Work Plan, approved by a letter dated July 14, 1995 focused on Area-of-Concern (AOC) #2 (the former printed circuit board manufacturing area).

The *Interim Corrective Measure* (ICM) *Plan* was prepared in response to the conclusions and recommendations presented in the *RCRA Facility Investigation* (February 1996). The ICM Plan proposed recovery of the volatile organic compound (VOC) plume associated with AOC #2, treatment of the recovered groundwater, and injection of the treated water into the subsurface. The system was designed to create a hydraulic barrier and capture the up-gradient contaminated groundwater using the containment recovery wells, capture and recirculate the injected groundwater to create a semi-closed loop system, and reduce or eliminate the contaminant plume.

The remedial system was completed in September 1996, following verbal approval to construct by the Hazardous Waste Section. The system construction details are summarized in the *Remediation System Construction Report* dated August 1997.

ALCATEL started the shakedown of the treatment system in September 1996. The shakedown and testing period continued until December 1996, at which time ALCATEL and National Environmental Technologies, Inc. (now TRC Triangle (TRC)) were comfortable with the system

operation. The first IMPR of the treatment system effectiveness included the period from September 1996, through April 1997. Subsequent IMPR reports have been submitted on a semi-annual basis. This report includes the period from April 1999, through October 1999.

TRC (formerly Triangle Environmental) prepared and submitted, following the Hazardous Waste Section's guidance, the *Phase II RCRA Facility Investigation Work Plan* dated October 1997. That plan proposed the completion of the site investigation and contaminant characterization. The site investigation and contaminant characterization, entitled *Phase II RCRA Facility Investigation*, was completed and submitted to the NCDENR in December 1998.

2.0 SAMPLING AND REPORTING REQUIREMENTS

The NCDENR has imposed, through rigorous permitting, certain sampling and reporting requirements upon ALCATEL. The requirements for the system and groundwater sampling, and reporting were determined by the Groundwater Section under the Groundwater Remediation permit #WQ0012221, NPDES permit #NC0086126 and the Hazardous Waste Section. A summary of requirements is presented below.

2.1 Groundwater Remediation Permit

The sampling and monitoring requirements for the **Groundwater** Section permit #WQ0012221 include the semi-annual measurements of water levels and laboratory analysis for total Lead and Copper (no specified method), and VOCs by USEPA Method 6230D from MW-4sk (destroyed), MW-5s, MW-7s, and MW-11s. The laboratory reports and completed GW-59 forms for the monitoring wells are attached in **Appendix A**. This permit also requires the sampling and laboratory analysis for total Lead and Copper, and VOCs by USEPA method 6230D for the treatment system influent and effluent. The system samples were collected twice a month for the first three months and once a month thereafter. Treatment system results are submitted monthly to the Permits and Compliance Unit of the Division of Water Quality, Groundwater Section.

2.2 NPDES Permit

The NPDES permit was issued in December 1997, and the permitted discharge commenced in January 1998. The permit, #NC0086126, initially required monthly effluent sampling for chloroform; 1,1-DCE; 1,2-DCA; PCE; 1,1,2-TCA; Copper; Iron; Lead; Manganese; and total suspended solids (TSS), and quarterly effluent composite sampling for chronic toxicity. On August 19, 1999, the NCDEHR granted a minor modification to the permit by deleting the Iron and Manganese sampling requirements. All other sampling and monitoring requirements remain in full effect. The chronic toxicity shall be performed as outlined in the "North Carolina Ceriodaphnia Chronic Effluent Bioassay Procedure" during the months of April, July, October, and January. Flow shall be monitored continuously and shall not exceed a monthly average of

0.08 million gallons a day (MGD). Suspended solids should not exceed the daily maximum of 30.0 mg/l.

2.3 Hazardous Waste Section

The semi-annual reporting requirements under the Hazardous Waste Section were agreed upon during a December 4, 1996, meeting with TRC Triangle (then NET) geologists Mr. Stan H. Harts and Mr. Michael H. Haseltine, L.G., agents of ALCATEL, and Mr. Tom Walker and Mr. Karim Pathan of the NCDENR, Hazardous Waste Section. The requirements as summarized in the letter from Triangle dated February 27, 1997, include:

- A summary of system operating parameters and maintenance activities.
- A summary of the September 1996, groundwater sampling event including MW-1s, MW-2d, MW-2s, MW-2sk, MW-3d, MW-3s, MW-5s, MW-5sk, MW-7d, MW-7s, MW-9dk, MW-9sk, MW-11s, MW-12dk, MW-12s, and MW-13s.
- Groundwater sampling from CRW-1, CRW-5, CRW-9, CRW-11, MW-9dk, and MW-9sk.
- A summary of system influent and effluent sampling results.
- Potentiometric groundwater surface maps for both unconsolidated and bedrock hydrolithic zones based on water level measurements.
- Contaminant isoconcentration maps for both unconsolidated and bedrock aquifers.
- Geologic cross-sectional diagrams including the contaminant isoconcentration lines.
- The effectiveness of the system based upon the efficiency of contaminant removal and plume capture and contaminant reduction.
- Recommendations including system modifications.

This semi-annual report is designed to fulfill all of the reporting and sampling requirements listed above.

3.0 POTENTIOMETRIC GROUNDWATER SURFACES

Groundwater elevations were measured during a field visit in October 2000. The elevations were measured in accordance with the RFI Work Plan, Section 4.5.2.2. Those results are presented in **Table 1** and discussed in the following paragraphs.

Groundwater elevations measured from the recovery and containment recovery wells were included in the bedrock aquifer data sets with the exception of the data measured from CRW-1 through CRW-5. These containment recovery wells were constructed entirely in the unconsolidated sediments and, therefore, data collected from these wells were not included in the bedrock aquifer data sets. Compared with the other containment recovery wells, the groundwater elevations in CRW-12 and MW-4dd have been consistently lower. During this sampling round CRW-12 was found to be dry. Both CRW-12 and MW-4dd are constructed within competent granite and considered to be hydraulically isolated from the other wells. Therefore, data collected from these wells were considered anomalous and not included in the data sets used to construct either of the groundwater potentiometric surface maps.

The off-site monitoring wells include: MW-15d and MW-15s at the Pepsi facility; MW-BP6 at the Han-Dee Hugo's BP-Service Station (MW-6); MW-AS1, MW-AS2 and MW-AS3 at the Al Smith Automobile Dealership and MW-S1 at Sears Roebuck and Co.

Monitoring wells from each off-site facility were surveyed and incorporated into the existing network of system and monitoring wells. The data collected from these wells were used to provide more precise groundwater potentiometric surface maps of the site area.

In October of 2000, water levels were measured from all of the recovery, containment recovery, injection and monitoring wells during operation of the groundwater recovery system. These data were compiled and are shown in **Figures 3** and **4**, for the bedrock and unconsolidated hydrolithic zones, respectively. The groundwater elevations in the bedrock (**Figure 3**) are typical of previous elevations. The groundwater flows toward the south by southwest with a significant

depression within the vicinity of the recovery and containment recovery well arrays. This depression has been present since the system began operation. The average gradient in the bedrock is 0.0280 ft/ft. **Figure 4** depicts the groundwater elevations in the unconsolidated hydrolithic zone and the effect of the continuous groundwater recovery and the mounding caused by groundwater injection. The average gradient in the unconsolidated zone is 0.0286 ft/ft.

4.0 GROUNDWATER SAMPLING

Based upon historical data, the contaminants of concern in the groundwater have been identified as: 1,1-DCA; 1,1- DCE; 1,1,1-TCA; 1,1,2-TCA; TCE; PCE; Copper; and Lead. All sampling was conducted in accordance with the RFI Work Plan, Section 4.5.

The seventh semi-annual sampling event was conducted from October 11 through October 12, 2000. Samples were collected from MW-1s, MW-2d, MW-2s, MW-3d, MW-3s, MW-4d, MW-4dd, MW-5s, MW-7d, MW-7s, MW-12s, MW-13d, MW-13s, MW-14d, MW-15d, MW-15s, MW-3dk, MW-5sk, MW-9dk, MW-9sk, MW-12dk, CRW-5, and CRW-11. Monitoring well MW-11s is normally sampled but it was found to be dry during the water level measurements. Containment recovery well CRW-1 was sampled on October 23, 2000 after its non-operational pump was replaced with a new pump and motor.

The analyses included USEPA Method 6230D for VOCs, and total Lead and total Copper by Method 200.7. The laboratory results are summarized in **Table 2** and graphically presented as total VOC isoconcentration maps in **Figures 5** and **6**, for the bedrock and unconsolidated hydrolithic zones, respectively. The results of samples from CRW-1 and CRW-5 were included in the unconsolidated aquifer data set only because these recovery wells do not penetrate bedrock. Conversely, the results from CRW-9 and CRW-11 were included in both the unconsolidated and bedrock data sets. The complete laboratory analytical reports and copies of the compliance monitoring forms GW-59 are included in **Appendix A.**

5.0 SYSTEM MAINTENANCE AND MONITORING

The system operation is electronically monitored through an alarm system and control panel located in ALCATEL's security office that is staffed 24 hours a day. Additionally, the system is designed to automatically shut down if the equalization tank (T-1), or the sump tank (T-2), reach near capacity. A high level switch is located in T-1. If the level in this tank reaches 90 percent capacity, the switch activates an alarm in the on-site security office and signals all containment recovery and recovery wells to shut-off. A high level switch is also located in T-2. If the sump tank reaches 85 percent capacity a high level switch activates an alarm in the security office and signals transfer pumps P-1 and P-2 to shut down. P-1 and P-2 transfer water from the equalization tank to the air stripper that drains to T-2. In the event that a shut down of P-1 and P-2 occurs, the water level in T-1 would rise and trigger the high level switch, and in turn shut down all recovery wells. Both overflow systems are tested periodically.

The treatment system is physically inspected several times a week by ALCATEL staff. An operator's log is maintained in the treatment system building. These system checks include a visual inspection of the influent and effluent, the operation of all injection and recovery wells through the instrument panel, inspection of flow and pressure meters within the system building, air stripper operation and inspection of the carbon adsorption flow process.

For the first few months of system operation, the disposable bag filter (100 to 50 μm) for sediment filter F-1 was spent and replaced at a rate of one every three to seven days. Gradually, the life of the F-1 bag filter extended to two to three weeks. Currently, the bag filter for F-1 (25 μm) is replaced every three to four weeks. The reduction of the rate of filter replacement (reduction of suspended solids) may indicate that the recovery system has removed the fine-grained sediments generated by the drilling activities. The disposable bag filter, F-2, has always been replaced less frequently than F-1.

The flow to Crabtree Creek and the total influent flow are measured independently through in-line flow meters located on the Crabtree Creek discharge line, and magmeters located on the recovery well and containment recovery well influent lines, respectively. Total effluent flow to the injection wells is determined by subtracting the injection flow (derived from the physically measured flow rate) from the sum of the containment recovery wells and recovery wells total influent flow meter. Individual flow through each injection well, containment recovery well and recovery well are measured by in-line flow meters and are periodically recorded. These individual cumulative flow measurements, monitored and recorded at the control panel, are presented in **Table 3**. Unfortunately, some of the turbine flow meters have chronically malfunctioned due to the presence of suspended sediment. These include meters for RW-7, RW-9, CRW-2, CRW-4, CRW-5, CRW-8, CRW-12, IW-4, and IW-6. Where the flow meters are inoperable or unreliable, the hours of pump operation is multiplied by the current flow rate measured during each semi-annual sampling round. Consequently, the cumulative flows for each individual well, presented in **Table 3**, represents the best approximation of the total flow to date. Flow meters have been periodically cleaned and lubricated (non-solvent based). Triangle has repeatedly consulted with the flow meter manufacturer and has taken the recommended steps to improve the accuracy of the meters.

Recovery well pump and motor repairs were successfully completed on CRW-1, CRW-2, CRW-3, CRW-5, and CRW-9 in November and December of 1999. The motor, pump and wiring were replaced in CRW-1 with new systems in October 2000. Malfunctions occur as a result of either sediment accumulation within the pump impellers or inoperable pumps/motors. Individual recovery well flow is now routinely monitored at the influent flow meter on the main control panel.

6.0 SYSTEM SAMPLING

In accordance with NCDENR permit # WQ0012221, influent and effluent samples were collected and analyzed twice a month for the first three months of system operation (September 1996, to December 1996) and once a month thereafter.

The laboratory analyses included USEPA Method SW846 6230D and USEPA Method 200.7 for total Lead and total Copper. The laboratory results of the influent and effluent are summarized in **Table 4**. During this reporting period two discrepancies should be noted. The monthly sampling requirement for October 1999 was inadvertently missed. The October influent and effluent samples were collected on November 10, 1999. The sampling event planned for January 25th was delayed until February 1, 2000 due to 20 inches of snow that shut down both Alcatel and the analytical laboratory during late January.

ALCATEL first noted and Tritest, Inc. (a certified laboratory), confirmed the presence of influent data input errors that occurred at their laboratory regarding 1,1-DCE, 1,1,1-DCA and 1,1,1-TCA. Triangle has changed the historical influent data to reflect the correct laboratory results (**Table 8**). The corrections did not cause a significant change in total VOC influent concentration. The revised laboratory reports were included in the previous semi-annual report.

As anticipated, the effluent total VOC, total Copper, and total Lead concentrations are consistently below each of their respective detection limits (BDL); 0.5 µg/l for VOCs, 10.0 µg/l for Copper, and 5.0 µg/l for Lead. The concentrations of the primary contaminants identified in the influent (**Table 4**) with respect to time are presented in **Figure 7**. The total influent VOC concentration with respect to days of operation is depicted in **Figure 8**. A decreasing trend is observed. Decreasing concentrations are also noted in individual wells as discussed in **Section 7**, System *Effectiveness*.

The three compounds; PCE, 1,1-DCE, and 1,1,1-TCA, have comprised 93.5 percent of the influent VOC contamination on average since the first sampling event in December 1996. The following influent statistics are based upon the laboratory analyses for the last year:

Compound	**Influent Mean (μg/L) (Oct. 1999- Sept. 2000)**	**Percent of Total VOC Concentration**
PCE	52.6	42.2%
1,1 DCE	32.1	25.8%
1,1,1 TCA	35.6	28.5%
Other (1,1-DCA, TCE)	3.8	3.0%

In accordance with the NPDES permit, quarterly *Ceriodaphnia Chronic Pass/Fail Reproduction Toxicity Tests* were performed during this reporting period. These tests use the effluent from the remediation treatment system as the media for Ceriodaphnia reproduction. There was no mortality in the toxicity sampling events and, consequently, the tests passed. The laboratory analytical results are in **Appendix B**. ALCATEL has received a minor modification to the NPDES permit that included the deletion of the sampling requirement for iron and manganese. Consequently, these two constituents are no longer included in the sampling schedule.

7.0 SYSTEM EFFECTIVENESS

The effectiveness of the remedial system at the ALCATEL facility is the measure of the system's ability to meet the design goals as follows:

- create a hydraulic barrier and capture the contaminated groundwater using the recovery and containment recovery wells;
- recirculate the injected groundwater to create a semi-closed loop system.

7.1 Capture Analysis

The system has induced a significant difference in groundwater elevation between the injection wells (up-gradient) and the recovery wells (down-gradient). The change in groundwater elevation between September 1996 (pre-system start-up) and October 2000 is depicted in **Figure 9**. This figure illustrates the success of the containment recovery and recovery wells to create a groundwater depression across the site. The system has provided a significant depression since startup as documented in previous semi-annual reports. It is anticipated that seasonal fluctuations do not significantly contribute to the total change in water levels. Because the contaminant migration is primarily a function of advection (groundwater flow), the induced depression has caused the VOC plume to migrate toward the recovery points.

7.2 Contaminant Removal

The initial system efficiency calculations were based upon the system performance ratings for the Shallow Tray low profile air stripper, Model 2641. At peak operation, the removal efficiency for this air stripper for the compounds 1,1,1-TCA; 1,1-DCA; 1,1-DCE; PCE; and TCE is estimated at greater than 99.9 percent. The estimated removal efficiencies of 1,1,2-TCA and 1,2-DCA are greater than 96 percent and 93 percent, respectively.

During this sampling period a post-stripper sample was collected to verify the system performance. The results, summarized in **Table 4**, indicate that all targeted VOCs were below detection limits. The analytical reports are included in **Appendix A.**

The calculation for the total VOC mass removed was determined as the difference of the total influent VOC mass from the total effluent VOC mass. The cumulative VOC mass removed since start-up is illustrated in **Figure 10** and presented in **Table 5**. **Figure 10** shows that the rate at which cumulative VOCs are removed has remained relatively constant since start-up.

Optimum system performance is also ensured by the measurement of operational gauges including those associated with the air stripper and activated carbon system. Constant piping pressure is maintained throughout the system using pneumatic valve actuators. System pressure is measured before the air stripper to ensure proper process water volume and proper airflow through the air stripper blower. System pressure is also measured between the two carbon canisters, GAC-1 and GAC-1, to ensure optimal operation and effluent polishing.

7.3 Trend Analysis

The relationship of the individual well VOC concentration with respect to time was evaluated. This evaluation includes laboratory results beginning from October 1997 to present.

The Coefficient of Determination, or r^2 method, was applied to each evaluated well. The r^2 method describes the correlation between measured concentrations and the predicted concentrations with respect to time. A value that approaches 1.0 is indicative of only minor variance of the observed concentrations from the predicted concentrations and is considered well correlated. An r^2 value approaching 0.0 indicates that there is little to no correlation between the observed and the predicted data sets.

For the purpose of this study a trend (increasing or decreasing) was considered present if a particular well data set provided an r^2 value that is equal to or greater than 0.60.

The results of this study are summarized in **Table 9**. The data were evaluated using the largest r^2 value (best correlation) using a linear, exponential, or polynomial mathematical relationship. Laboratory analyses of samples collected prior to October 1997 appear inconsistent. Consequently, this evaluation was conducted on the period from October 1997 through October

2000. A decreasing trend in total VOC concentration was noted in the following wells: MW-2s, MW-3d, MW-11s, MW-13s, MW-14d, MW-9dk, CRW-1, CRW-9, and CRW-11. These results provide evidence of a decreasing trend that is occurring throughout the horizontal extent of the plume from the source area to the recovery area, and within shallow, deep, and containment recovery wells. Previously, an increasing trend was noted in MW-4dd. This trend could not be confirmed after the last sampling round indicated a much lower Total VOC concentration. This in turn decreased the r^2 to 0.16 which indicates no apparent trend at this time. The raw data, including the scatter graphs, trend lines, and estimated relationships are provided in **Appendix C**.

The wells that did not exhibit evidence of a trend ($r^2 < 0.6$) based upon this evaluation, included: MW-2dd, MW-3s, MW-4dd, MW-12s, MW-13d, MW-3dk, MW-5sk, MW-9sk, and CRW-5.

Some wells were not evaluated and were not included in **Table 9** because at least one of the following conditions existed: 1) the well data set included the occurrence of more than one *below detection limits* result, or 2) the well data set did not provide a sufficient number (four or greater) of laboratory samples for evaluation. Many of wells with insufficient laboratory data have either been abandoned or are not periodically sampled.

8.0 CONCLUSIONS

The goals of the treatment system are to: create a hydraulic barrier to prevent further migration, capture and remediate the contaminant plume, and recirculate the treated groundwater to create a semi-closed loop system.

- The system has successfully and continually induced a substantial groundwater depression that inhibits further plume migration. Based on field data, the artificially induced depression transects the plume and is defined by a difference (September 1996, and October 2000) of groundwater elevation greater than 20 feet from static conditions in some places. The depression is similar to that reported in the previous Interim Measures Progress Reports.

- The depression in the water table created by the containment recovery system significantly alters the hydraulic gradient and induces contaminant migration, through advection, to the points of recovery.

- The captured VOC mass is essentially completely removed from the treatment system influent by air stripping and granular activated carbon treatments.

- The treated water discharged through injection wells to up-gradient locations creates a semi-closed loop system.

- The contaminant concentrations in MW-2s, MW-3d, MW-11s, MW-13s, MW-14d, MW-9dk, CRW-1, CRW-9, and CRW-11 show a statistically significant decreasing trend in total VOC concentration through evaluation of the coefficient of determination (r^2). This reflects the effectiveness of the active remedial system and natural attenuation of total VOCs within the groundwater.

9.0 RECOMMENDATIONS

- At this time, the system is operating at a high level of efficiency and modifications to the remedial system or the monitoring schedule are not recommended. The recovery/containment recovery wells will be repaired and maintained to meet their optimum operating conditions.

- Following review of the Phase II RFI, the site should be considered for implementation of Corrective Measures. The Corrective Measures Plan should include the process of Technical Impracticability as outlined in the USEPA guidance document in tandem with the U.S. EPA's. Risk-based Corrective Action process.

- Monthly system operation, sampling, and maintenance checks should continue.

- A test Aggressive Fluid Vapor Recovery (AFVR) event in monitoring wells MW-2s and MW-13s is recommended. While no free product is present, an AFVR could significantly reduce the contaminants in both the groundwater and the unsaturated zone without disturbing the favorable groundwater gradient established by the recovery system. Increased airflow will also assist the natural bioremediation of the unsaturated zone.

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TABLES

Table 1
Groundwater Elevations October 1999
Alcatel Network Systems, Inc.
Raleigh, NC

Well	TOC elevation (feet)	Depth to water (feet)	GW elevation (feet)	notes
MW-1s	228.40	8.01	220.39	
MW-2d*	225.81	11.12	214.69	
MW-2s	225.59	9.01	216.58	
MW-3d*	228.48	12.88	215.60	
MW-3s	228.55	14.64	213.91	
MW-4d*	227.20	16.71	210.49	
MW-4dd	226.53	19.89	206.64	
MW-4s	226.71	>15	DRY	dry
MW-5s	228.40	9.61	218.79	
MW-6s	229.16	6.45	222.71	
MW-7d*	229.35	6.47	222.88	
MW-7s	229.27	6.28	222.99	
MW-8s	229.34	6.48	222.86	
MW-9s	243.17	15.23	227.94	
MW-10s	252.71	20.76	231.95	
MW-11s	229.63	>15	DRY	dry
MW-12s	227.05	16.95	210.10	
MW-13d*	229.42	13.30	216.12	
MW-13s	229.48	14.08	215.40	
MW-14d*	227.40	10.33	217.07	
MW-15d*	210.82	11.70	199.12	
MW-15s	210.47	8.90	201.57	
MW-2ik	223.36	18.50	204.86	
MW-2sk	223.47	dry	DRY	dry
MW-3dk*	225.90	19.02	206.88	
MW-3sk	225.51	>17	DRY	dry
MW-5sk	215.28	9.45	205.83	
MW-9dk*	216.95	18.07	198.88	
MW-9sk	217.04	17.20	199.84	
MW-12dk*	221.85	16.92	204.93	
RW-1*	223.80	14.35	209.45	
RW-2*	220.61	17.01	203.60	
RW-3*	221.50	17.52	203.98	
RW-4*	221.18	16.7	204.48	
RW-5*	220.83	20.37	200.46	
RW-6*	220.98	17.40	203.58	
RW-7*	220.29	21.45	198.84	
RW-8*	219.18	20.93	198.25	
RW-9*	217.97	28.25	189.72	
RW-10*	215.35	15.65	199.70	

dry - denotes well was dry
* - denotes a bedrock well

Table 1
Groundwater Elevations October 1999
Alcatel Network Systems, Inc.
Raleigh, NC

Well	TOC elevation (feet)	Depth to water (feet)	GW elevation (feet)	notes
CRW-1	211.74	10.48	201.26	inactive for repair
CRW-2	212.10	12.29	199.81	
CRW-3	212.44	12.31	200.13	inactive for repair
CRW-4	211.64	11.64	200.00	
CRW-5	213.87	16.69	197.18	
CRW-6*	214.77	16.47	198.30	
CRW-7*	215.90	17.96	197.94	
CRW-8*	216.61	15.50	201.11	
CRW-9*	216.78	20.61	196.17	inactive for repair
CRW-10*	216.97	19.51	197.46	
CRW-11*	217.12	19.91	197.21	
CRW-12	217.46	>50	DRY	
IW-1	223.87	5.80	218.07	
IW-2	228.80	7.89	220.91	
IW-3	224.50	5.90	218.60	
IW-4	225.28	1.26	224.02	
IW-5	228.68	8.32	220.36	
IW-6	225.66	0.00	225.66	flowing out access port
IW-7	225.11	5.65	219.46	
IW-8	225.86	6.01	219.85	
MW-A9d	212.50	well aband.	well aband.	well abandoned
MW-BP6	208.39	nm	nm	could not access
MW-K1	205.56	destroyed	destroyed	destroyed
MW-AS1	205.30	9.57	195.73	
MW-AS2	205.18	9.61	195.57	
MW-AS3	207.52	15.56	191.96	
MW-S1	240.61	nm	nm	

dry - denotes well was dry
* - denotes a bedrock well

Table 2
Well Sampling Results (October/December 1999)
Alcatel Network Systems, Inc.
Raleigh, NC

Well	Date Sampled	1,2-DCA (ug/l)	PCE (ug/l)	1,1-DCE (ug/l)	1,1-DCA (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1,2-TCA (ug/l)	VOC total (ug/l)	Cu (ug/l)	Pb (ug/l)
NCAC 2L Standards		0.38	0.7	NA	700	200	2.8	NA	NA	1000	15
MW-1s	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	6
MW-2d	10/12/00	BDL	**1400**	1300	BDL	**4700**	BDL	BDL	7400.0	18	BDL
MW-2s	10/12/00	**0.91**	**12**	69	11	100	BDL	BDL	192.9	BDL	BDL
MW-3d	10/12/00	BDL	BDL	BDL	BDL	2.7	BDL	BDL	2.7	BDL	BDL
MW-3s	10/12/00	BDL	BDL	BDL	0.8	BDL	**4.3**	BDL	5.1	BDL	BDL
MW-4dd	10/12/00	BDL	**550**	67	24	6.5	**490**	BDL	1137.5	18	BDL
MW-4d	10/12/00	**3.8**	**600**	220	12	**320**	**5.4**	1.2	1162.4	BDL	BDL
MW-5s	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL
MW-7d	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-7s	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	BDL
MW-11s	10/11/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-12s	10/12/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27	**30**
MW-13d	10/11/00	**3.3**	**73**	120	30	**670**	**3.4**	2.4	902.1	710	BDL
MW-13s	10/11/00	**6.5**	**390**	2200	69	38	BDL	BDL	2703.5	42	BDL
MW-14d	10/11/00	BDL	**93.0**	550	5.2	**3400**	BDL	BDL	4048.2	250	6
MW-15d	10/12/00	BDL	**11**	45	BDL	BDL	**11**	BDL	67.0	13	BDL
MW-15s	10/12/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40	BDL
MW-3dk	10/12/00	BDL	**81.0**	64.0	7.6	92.0	BDL	BDL	244.6	19	**16**
MW-5sk	10/12/00	BDL	BDL	BDL	0.7	BDL	0.7	BDL	1.4	BDL	BDL
MW-9dk	10/12/00	BDL	**1.2**	0.65	BDL	BDL	1.6	BDL	3.5	22	BDL
MW-9sk	10/12/00	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	10	BDL
MW-12dk	10/12/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CRW-1	10/23/00	BDL	**4.3**	0.7	BDL	BDL	**20**	BDL	25.0	16	15
CRW-5	10/11/00	BDL	**2.1**	0.97	BDL	BDL	**3.2**	BDL	6.3	74	BDL
CRW-11	10/11/00	BDL	**0.95**	BDL	BDL	BDL	BDL	BDL	1.0	12	BDL

Bold indicates concentrations above 2L Standards
BDL = Below Detection Limit
ns - not sampled

Table 3
Cumulative Individual Flow Since Start-Up
Alcatel Network Systems, Inc.
Raleigh, NC

CUMULATIVE FLOW (1,000 gal)	
Well	Date of Measurement
	10/12/00
IW-1	302.5
IW-2	2,193.9
IW-3	4,018.5
IW-4*	7,361.6
IW-5	1,050.7
IW-6*	624.2
IW-7	89.6
IW-8	1,984.5
CRW-1	360.5
CRW-2*	83.2
CRW-3	6.3
CRW-4*	1,628.8
CRW-5*	373.9
CRW-6	5,946.9
CRW-7	5,445.7
CRW-8*	1,094.4
CRW-9	3,108.5
CRW-10	6,192.3
CRW-11	637.4
CRW-12*	17.6
RW-1	2,460.8
RW-2	5,333.7
RW-3	5,867.1
RW-4	4,369.9
RW-5	0.0
RW-6	2,347.0
RW-7*	527.8
RW-8	4,872.8
RW-9*	5.4
RW-10	924.0
NPDES flow	48,213.2
Injection flow	10,045.0
Total Flow	58,258.2

* note - indicates those flow meters that have chronically malfunctioned
Total Flow is sum of CRW and RW totalizer meters.

Tab[illegible]

Influent / Effluent Laboratory Results
Alcatel Network Systems, Inc.
Raleigh, NC

		INFLUENT CONCENTRATION (ug/L)										
		Sample Date										
Compound	Detection Limit (ug/l)	11/10/99	12/14/99	02/01/00	02/24/00	03/23/00	04/14/00	05/24/00	06/16/00	07/25/00	08/24/00	09/26/00
1,1-DCE	0.5	BDL	49.7	33.1	42.3	29.92	30.57	8.9	32.1	27.1	34.2	41
1,1-DCA	0.5	2.2	BDL	1.5	1.64	1.55	1.89	0.891	1.77	1.81	1.15	2.1
Chloroform	0.5	**1.0**	BDL	BDL	BDL	BDL	**0.756**	**0.688**	**0.76**	**0.66**	**0.71**	BDL
1,1,1-TCA	0.5	8.8	31.5	33.4	43.6	35.15	43.2	35	36.9	37.2	47.8	28.6
TCE	0.5	**4.3**	2.49	**3.2**	2.45	2.42	2.43	1.01	2.41	2.4	2.13	2.73
PCE	0.5	**11.7**	BDL	**67.1**	BDL	**60.21**	**68.76**	**38.4**	**69.3**	**71.3**	**65.3**	**80.5**
Total VOC's		28.0	83.7	138.3	89.99	129.25	147.63	84.89	143.24	140.47	151.29	154.93
Copper (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (total)	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

		EFFLUENT CONCENTRATION (ug/L)										
		Sample Date										
Compound	Detection Limit (ug/l)	11/10/99	12/14/99	02/01/00	02/24/00	03/23/00	04/14/00	05/24/00	06/16/00	07/25/00	08/24/00	09/26/00
1,1-DCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-DCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-TCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (total)	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - below detection limit
VOC - Method 6230D 502.2
Total Copper Lead - Method 200.8
***BDL - influent sample collected on 6/9/99 that resulted in BDL for total VOCs was most likely a laboratory error.**

Table 5
Cumulative VOC Mass Removed From Groundwater
Alcatel Network Systems, Inc.

Date	Influent VOC (total ug/l)	Cumulative Influent Flow (millions gals.)	Cumulative VOC's removed (total lbs)	Cumulative VOC's removed (estimated gallons)
12/4/96	528.2	1.7	7.5	0.6
12/18/96	376.0	1.9	8.1	0.7
1/3/97	449.9	2.7	11.1	0.9
1/15/97	365.9	3.7	14.2	1.2
1/30/97	269.9	5.2	17.5	1.5
2/14/97	261.3	6.0	19.3	1.6
2/26/97	145.7	6.7	20.1	1.7
3/12/97	282.1	7.4	21.8	1.8
3/27/97	293.2	8.2	23.7	2.0
4/30/97	514.8	10.1	31.9	2.6
5/29/97	293.8	11.8	36.1	3.0
7/9/97	244.3	13.6	39.7	3.3
7/28/97	299.9	15.4	44.2	3.7
8/19/97	303.6	16.8	47.8	4.0
9/22/97	255.1	18.4	51.2	4.2
10/28/97	344.6	20.0	55.8	4.6
11/26/97	446.1	21.4	61.0	5.0
12/17/97	244.0	22.4	63.0	5.2
1/26/98	262.7	24.3	67.2	5.6
2/19/98	189.4	25.5	69.1	5.7
3/24/98	238.0	27.3	72.6	6.0
4/20/98	177.2	28.6	74.6	6.2
5/29/98	184.8	30.6	77.6	6.4
6/25/98	133.3	31.9	79.0	6.5
7/24/98	196.4	33.3	81.4	6.7
8/21/98	213.1	34.7	83.8	6.9
9/22/98	175.2	36.3	86.1	7.1
10/20/98	193.3	37.3	87.8	7.3
12/3/98	184.8	39.0	90.5	7.4
12/20/98	133.3	39.7	91.3	7.5
1/15/99	196.4	40.7	92.9	7.6
2/23/99	213.1	42.3	95.7	7.9
3/18/99	175.2	43.3	97.1	8.0
4/27/99	-----	44.6	-----	-----
5/20/99	90.0	46.9	98.0	8.0
6/9/99	0.0	49.2	98.0	8.0
7/22/99	147.6	51.5	100.8	8.3
8/26/99	84.9	53.8	102.4	8.4
9/22/99	143.2	56.1	105.2	8.6
10/26/99	-----	58.4	-----	-----
11/10/99	140.5	60.7	112.8	9.3
11/24/99	117.0	63.0	115.1	9.5
12/14/99	148.4	65.3	117.9	9.7
1/14/00	-----	67.6	-----	-----
2/24/00	90.0	69.9	124.1	10.2
3/23/00	129.3	72.2	126.6	10.4
4/14/00	147.6	74.5	129.4	10.6
5/24/00	84.9	76.8	131.1	10.8
6/16/00	143.2	79.1	133.8	11.0
7/25/00	140.5	81.4	136.5	11.2
8/24/00	151.3	83.7	139.4	11.5
9/26/00	154.9	86.0	142.4	11.7

Estimated gallons removed in 1999 based upon a solvent specific gravity of 1.46 as calculated from approximate influent percentages (TCA:27.7%, DCE:28.6%, PCE:41.0%, TCE+others:2.7%)

Table 6
Historical Groundwater Elevations
Alcatel Network Systems, Inc.
Raleigh, NC

Well	TOC elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)
		9/10/96		1/15/97		3/5/97		4/10/97	
MW-1s	228.40	6.16	222.24	4.57	223.83	4.20	224.20	5.16	223.24
MW-2d	225.81	8.41	217.40	9.54	216.27	10.03	215.78	11.27	214.54
MW-2s	225.59	6.85	218.74	6.76	218.83	6.79	218.80	8.22	217.37
MW-3d	228.48	10.49	217.99	11.50	216.98	11.99	216.49	13.17	215.31
MW-3s	228.55	13.12	215.43	13.43	215.12	13.18	215.37	15.24	213.31
MW-4d	227.20	12.04	215.16	14.33	212.87	15.11	212.09	16.34	210.86
MW-4dd	226.53	nm		nm		nm		nm	
MW-4s	226.71	10.82	215.89	11.93	214.78	nm		nm	
MW-5s	228.40	7.87	220.53	5.52	222.88	5.70	222.70	6.94	221.46
MW-6s	229.16	4.82	224.34	3.74	225.42	3.40	225.76	4.46	224.70
MW-7d	229.35	7.61	221.74	6.14	223.21	5.64	223.71	9.68	219.67
MW-7s	229.27	5.05	224.22	3.90	225.37	3.56	225.71	4.65	224.62
MW-8s	229.34	5.28	224.06	3.05	226.29	3.69	225.65	4.77	224.57
MW-9s	243.17	14.27	228.90	13.56	229.61	13.10	230.07	14.00	229.17
MW-10s	252.71	20.03	232.68	19.54	233.17	19.01	233.70	19.87	232.84
MW-11s	229.63	11.89	217.74	9.19	220.44	9.39	220.24	12.29	217.34
MW-12s	227.05	16.38	210.67	17.31	209.74	17.92	209.13	19.31	207.74
MW-13d	229.42	nm		nm		nm		nm	
MW-13s	229.48	11.64	218.07	10.27	219.44	10.50	219.21	14.97	214.51
MW-14d	227.40	nm		nm		nm		nm	
MW-15d	210.82	nm		nm		nm		nm	
MW-15s	210.47	nm		nm		nm		nm	
MW-2ik	223.36	11.08	212.28	nm		19.46	203.90	20.90	202.46
MW-2sk	223.47	11.05	212.42	17.29	206.18	dry		dry	
MW-3dk	225.90	12.56	213.34	16.20	209.70	17.19	208.71	18.51	207.39
MW-3sk	225.51	11.51	214.00	14.30	211.21	15.39	210.12	16.74	208.77
MW-5sk	215.28	10.97	204.31	9.34	205.94	nm	nm	10.95	204.33
MW-9dk	216.95	9.91	207.04	19.60	197.35	19.93	197.02	20.91	196.04
MW-9sk	217.04	8.60	208.44	18.94	198.10	19.99	197.05	20.88	196.16
MW-12dk	221.85	nm		15.75	206.10	17.26	204.59	18.29	203.56
RW-1	223.80	nm	nm	nm		9.76	214.04	11.00	212.80
RW-2	220.61	8.02	212.59	nm		18.74	201.87	19.69	200.92
RW-3	221.50	9.15	212.35	nm		19.65	201.85	20.53	200.97
RW-4	221.18	8.90	212.28	nm		19.96	201.22	20.86	200.32
RW-5	220.83	8.66	212.17	nm		21.52	199.31	22.29	198.54
RW-6	220.98	10.21	210.77	nm		23.60	197.38	24.33	196.65
RW-7	220.29	8.50	211.79	nm		23.34	196.95	24.30	195.99
RW-8	219.18	10.55	208.63	nm		22.82	196.36	23.60	195.58
RW-9	217.97	10.39	207.58	nm		21.14	196.83	24.65	193.32
RW-10	215.35	8.14	207.21	nm		19.75	195.60	20.69	194.66
CRW-1	211.74	5.14	206.60	nm		14.87	196.87	15.00	196.74
CRW-2	212.10	5.15	206.95	nm		19.46	192.64	15.67	196.43
CRW-3	212.44	4.60	207.84	nm		16.23	196.21	15.40	197.04
CRW-4	211.64	4.91	206.73	nm		14.18	197.46	14.73	196.91
CRW-5	213.87	7.04	206.83	nm		18.59	195.28	19.21	194.66
CRW-6	214.77	7.82	206.95	nm		18.36	196.41	19.05	195.72
CRW-7	215.90	8.42	207.48	nm		19.63	196.27	20.35	195.55
CRW-8	216.61	9.08	207.53	nm		21.84	194.77	22.57	194.04
CRW-9	216.78	8.01	208.77	nm		18.35	198.43	19.09	197.69
CRW-10	216.97	7.86	209.11	nm		17.82	199.15	18.59	198.38
CRW-11	217.12	7.86	209.26	nm		17.21	199.91	17.94	199.18
CRW-12	217.46	7.54	209.92	nm		46.90	170.56	48.07	169.39
IW-1	223.87	nm		nm		6.66	217.21	nm	
IW-2	228.80	nm		nm		nm		nm	
IW-3	224.50	nm		nm		0.70	223.80	nm	
IW-4	225.28	nm		nm		1.95	223.33	nm	
IW-5	228.68	nm		nm		2.61	226.07	nm	
IW-6	225.66	nm		nm		0.30	225.36	nm	
IW-7	225.11	nm		nm		1.66	223.45	nm	
IW-8	225.86	nm		nm		1.79	224.07	nm	
MW-A9d	212.50	nm		nm		nm		nm	
MW-BP6	208.39	nm		nm		nm		nm	
W-K1	205.56	nm		nm		nm		nm	
MW-AS1	205.30	nm		nm		nm		nm	
MW-AS2	205.18	nm		nm		nm		nm	
MW-AS3	207.52	nm		nm		nm		nm	
MW-S1	240.61	nm		nm		nm		nm	

nm - denotes not measured
dry - denotes well was dry

Table 6
Historical Groundwater Elevations
Alcatel Network Systems, Inc.
Raleigh, NC

Well	TOC elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)	Depth to water (feet)	GW elevation (feet)
		10/29/97		4/27/98		10/7/98		4/27/99		10/26/00	
MW-1s	228.40	4.53	223.87	3.58	224.82	5.72	222.68	6.65	221.75	8.01	220.39
MW-2d	225.81	10.50	215.31	10.07	215.74	10.63	215.18	11.27	214.54	11.12	214.69
MW-2s	225.59	7.25	218.34	6.99	218.60	7.72	217.87	7.55	218.04	9.01	216.58
MW-3d	228.48	12.39	216.09	11.91	216.57	12.53	215.95	13.05	215.43	12.88	215.60
MW-3s	228.55	14.94	213.61	14.07	214.48	15.04	213.51	14.91	213.64	14.64	213.91
MW-4d	227.20	15.77	211.43	15.40	211.80	15.85	211.35	16.51	210.69	16.71	210.49
MW-4dd	226.53	100.96	125.57	54.63	171.90	51.68	174.85	28.52	198.01	19.89	206.64
MW-4s	226.71	13.78	212.93	14.00	212.71	14.19	212.52	dry		>15	DRY
MW-5s	228.40	5.51	222.89	5.63	222.77	6.52	221.88	8.00	220.40	9.61	218.79
MW-6s	229.16	4.02	225.14	2.66	226.50	4.81	224.35	5.23	223.93	6.45	222.71
MW-7d	229.35	7.24	222.11	5.19	224.16	4.11	225.24	5.55	223.80	6.47	222.88
MW-7s	229.27	4.18	225.09	2.85	226.42	4.98	224.29	5.41	223.86	6.28	222.99
MW-8s	229.34	4.27	225.07	2.99	226.35	5.11	224.23	5.56	223.78	6.48	222.86
MW-9s	243.17	14.44	228.73	11.72	231.45	14.69	228.48	14.70	228.47	15.23	227.94
MW-10s	252.71	20.56	232.15	17.40	235.31	20.57	232.14	20.36	232.35	20.76	231.95
MW-11s	229.63	11.09	218.54	11.41	218.22	11.70	217.93	13.12	216.51	>15	DRY
MW-12s	227.05	19.41	207.64	16.77	210.28	18.36	208.69	16.77	210.28	16.95	210.10
MW-13d	229.42	11.35	218.07	11.15	218.27	11.88	217.54	12.71	216.71	13.30	216.12
MW-13s	229.48	11.40	218.08	11.45	218.03	11.97	217.51	13.17	216.31	14.08	215.40
MW-14d	227.40	7.97	219.43	7.68	219.72	8.53	218.87	9.51	217.89	10.33	217.07
MW-15d	210.82	nm		nm		12.41	198.41	13.14	197.68	11.70	199.12
MW-15s	210.47	nm		nm		10.59	199.88	10.80	199.67	8.90	201.57
MW-2ik	223.36	20.60	202.76	19.29	204.07	19.91	203.45	20.68	202.68	18.50	204.86
MW-2sk	223.47	dry		dry		dry		dry		dry	
MW-3dk	225.90	18.22	207.68	17.87	208.03	17.98	207.92	18.81	207.09	19.02	206.88
MW-3sk	225.51	dry		dry		dry		dry		>17	DRY
MW-5sk	215.28	10.39	204.89	9.11	206.17	9.98	205.30	10.71	204.57	9.45	205.83
MW-9dk	216.95	19.38	197.57	17.17	199.78	18.75	198.20	19.57	197.38	18.07	198.88
MW-9sk	217.04	19.11	197.93	16.48	200.56	18.26	198.78	19.28	197.76	17.20	199.84
MW-12dk	221.85	17.67	204.18	16.18	205.67	16.98	204.87	17.80	204.05	16.92	204.93
RW-1	223.80	11.84	211.96	12.17	211.63	12.32	211.48	13.55	210.25	14.35	209.45
RW-2	220.61	19.32	201.29	17.97	202.64	18.45	202.16	19.17	201.44	17.01	203.60
RW-3	221.50	20.32	201.18	18.65	202.85	19.24	202.26	19.56	201.94	17.52	203.98
RW-4	221.18	20.52	200.66	19.19	201.99	19.63	201.55	no access		16.70	204.48
RW-5	220.83	21.98	198.85	20.56	200.27	21.08	199.75	19.53	201.30	20.37	200.46
RW-6	220.98	23.94	197.04	22.67	198.31	23.12	197.86	23.62	197.36	17.40	203.58
RW-7	220.29	23.31	196.98	21.53	198.76	22.65	197.64	23.40	196.89	21.45	198.84
RW-8	219.18	22.49	196.69	20.57	198.61	21.80	197.38	22.71	196.47	20.93	198.25
RW-9	217.97	34.21	183.76	34.30	183.67	34.18	183.79	34.28	183.69	28.25	189.72
RW-10	215.35	19.30	196.05	15.35	200.00	16.87	198.48	17.99	197.36	15.65	199.70
CRW-1	211.74	11.44	200.30	8.78	202.96	11.00	200.74	15.46	196.28	10.48	201.26
CRW-2	212.10	12.12	199.98	10.40	201.70	11.59	200.51	12.91	199.19	12.29	199.81
CRW-3	212.44	12.62	199.82	9.15	203.29	11.84	200.60	12.24	200.20	12.31	200.13
CRW-4	211.64	12.62	199.02	11.98	199.66	13.29	198.35	13.92	197.72	11.64	200.00
CRW-5	213.87	16.12	197.75	13.91	199.96	15.45	198.42	19.75	194.12	16.69	197.18
CRW-6	214.77	17.89	196.88	15.62	199.15	17.15	197.62	18.26	196.51	16.47	198.30
CRW-7	215.90	19.40	196.50	17.27	198.63	18.64	197.26	19.53	196.37	17.96	197.94
CRW-8	216.61	21.73	194.88	18.66	197.95	20.85	195.76	22.56	194.05	15.50	201.11
CRW-9	216.78	19.12	197.66	15.40	201.38	16.94	199.84	15.06	201.72	20.61	196.17
CRW-10	216.97	18.61	198.36	15.58	201.39	18.17	198.80	15.15	201.82	19.51	197.46
CRW-11	217.12	17.87	199.25	15.15	201.97	17.65	199.47	15.66	201.46	19.91	197.21
CRW-12	217.46	48.10	169.36	47.52	169.94	48.13	169.33	46.92	170.54	>50	DRY
IW-1	223.87	0.50	223.37	1.42	222.45	1.46	222.41	6.91	216.96	5.80	218.07
IW-2	228.80	3.84	224.96	4.62	224.18	3.14	225.66	3.44	225.36	7.89	220.91
IW-3	224.50	3.27	221.23	0.83	223.67	0.00	224.50	4.76	219.74	5.90	218.60
IW-4	225.28	nm		nm		1.06	224.22	3.60	221.68	1.26	224.02
IW-5	228.68	1.55	227.13	0.00	228.68	4.87	223.81	6.47	222.21	8.32	220.36
IW-6	225.66	0.59	225.07	nm		0.00	225.66	1.91	223.75	0.00	
IW-7	225.11	1.06	224.05	1.04	224.07	2.17	222.94	3.47	221.64	5.65	219.46
IW-8	225.86	0.55	225.31	2.00	223.86	3.31	222.55	4.57	221.29	6.01	219.85
MW-A9d	212.50	nm		nm		13.15	199.35	well aband.		well aband.	
MW-BP6	208.39	nm		nm		9.92	198.47	10.53	197.86	nm	nm
W-K1	205.56	nm		nm		destroyed		destroyed		destroyed	
MW-AS1	205.30	nm		nm		10.20	195.10	10.26	195.04	9.57	195.73
MW-AS2	205.18	nm		nm		11.27	193.91	11.16	194.02	9.61	195.57
MW-AS3	207.52	nm		nm		16.32	191.20	15.94	191.58	15.56	191.96
MW-S1	240.61	nm		nm		22.68	217.93	22.61	218.00	nm	nm

nm - denotes not measured
dry - denotes well was dry

Table 7
Historical Well Sampling Results
Alcatel Network Systems, Inc.

Well	Date Sampled	1,2-DCA (ug/l)	PCE (ug/l)	1,1-DCE (ug/l)	1,1-DCA (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1,2-TCA (ug/l)	VOC total (ug/l)	Cu (ug/l)	Pb (ug/l)
NCAC 2L Standards		0.38	0.7	NA	700	200	2.8	NA	NA	1000	15
MW-1s	08/21/90	BDL	2	BDL	BDL	11	BDL	BDL	13.0	1200	BDL
	02/08/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	667	14
	09/19/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1150	3
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	877	BDL
	11/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	85	6
	09/13/96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	331	5
	04/10/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	141	BDL
	10/31/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	428	BDL
	04/28/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	108	BDL
	10/08/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	130	BDL
	04/28/99	BDL	BDL	BDL	BDL	BDL	0.58	BDL	0.6	BDL	BDL
	10/27/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	71	BDL
	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	6
MW-2d	11/29/94	BDL	540	1600	BDL	2800	BDL	BDL	4940.0	BDL	BDL
	09/13/96	BDL	729	418	8.13	828	2.18	BDL	1985.3	26	BDL
	04/10/97	BDL	1090	893	23	1460	3.32	2.31	3471.6	13	BDL
	10/30/97	BDL	6500	1400	270	3500	BDL	BDL	11670.0	BDL	BDL
	04/28/98	BDL	4300	1000	BDL	2600	BDL	BDL	7900.0	BDL	BDL
	10/08/98	BDL	3200	440	1800	BDL	BDL	BDL	5440.0	15	BDL
	04/28/99	BDL	2800	560	20	2600	61	BDL	6041.0	BDL	BDL
	10/28/99	BDL	1460	928	12.7	2580	2.6	3	4986.3	16	BDL
	10/12/00	BDL	1400	1300	BDL	4700	BDL	BDL	7400	18	BDL
MW-2s	08/21/90	BDL	9	16	7	120	BDL	1	153.0	BDL	BDL
	02/08/93	BDL	9	19	9	130	BDL	BDL	167.0	10.3	6.8
	09/19/93	BDL	8.9	BDL	6.9	94	BDL	BDL	109.8	30	5
	08/30/94	BDL	18	20	BDL	140	BDL	BDL	178.0	BDL	BDL
	11/30/94	BDL	6.4	16	BDL	43	BDL	BDL	65.4	BDL	BDL
	09/13/96	BDL	74.3	21.7	15.8	319	BDL	BDL	430.8	BDL	BDL
	04/10/97	BDL	1.37	2.26	BDL	BDL	BDL	BDL	3.6	BDL	BDL
	10/30/97	BDL	71	490	44	400	BDL	BDL	1005.0	BDL	BDL
	04/28/98	BDL	59	290	54	310	BDL	BDL	713.0	BDL	BDL
	10/08/98	BDL	41	86	42	310	BDL	BDL	479.0	BDL	BDL
	04/28/99	BDL	48	88	29	290	5	BDL	460.0	BDL	BDL
	10/28/99	16.8	BDL	70.8	15.8	116	BDL	0.3	219.7	BDL	BDL
	10/12/00	0.91	12	69	11	100	BDL	BDL	192.91	BDL	BDL
MW-3d	11/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	09/13/96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
	04/10/97	BDL	5.03	49.9	3.35	205	BDL	BDL	263.3	BDL	BDL
	10/30/97	BDL	BDL	120	29	470	BDL	BDL	619.0	BDL	BDL
	04/28/98	BDL	BDL	32	BDL	220	BDL	BDL	252.0	BDL	BDL
	10/08/98	BDL	1.1	6.9	BDL	160	BDL	BDL	168.0	BDL	BDL
	04/28/99	BDL	8.3	9.7	BDL	66	4.8	BDL	88.8	BDL	BDL
	10/27/99	1.1	BDL	3.9	BDL	20.3	BDL	BDL	25.3	BDL	BDL
	10/12/00	BDL	BDL	BDL	BDL	2.7	BDL	BDL	2.7	BDL	BDL
MW-3s	08/21/90	BDL	BDL	2	2	1	5	BDL	10.0	N/A	BDL
	02/08/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30
	09/19/93	BDL	BDL	1.7	1.2	BDL	9.3	BDL	12.2	BDL	30
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
	11/30/94	BDL	BDL	BDL	BDL	BDL	2.7	BDL	2.7	BDL	BDL
	09/13/96	BDL	BDL	BDL	BDL	BDL	4.75	BDL	4.8	15	BDL
	04/10/97	BDL	BDL	1.16	BDL	BDL	4.12	BDL	5.3	BDL	BDL
	10/30/97	BDL	BDL	BDL	BDL	BDL	2	BDL	2.0	BDL	BDL
	04/28/98	BDL	BDL	BDL	BDL	BDL	3	BDL	3.0	BDL	BDL
	10/08/98	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.2	BDL	BDL
	04/28/99	BDL	2.2	2.1	1.1	BDL	8.1	BDL	13.5	BDL	BDL
	10/28/99	BDL	0.1	0.8	0.8	BDL	2.6	BDL	4.3	BDL	BDL
	10/12/00	BDL	BDL	BDL	0.8	BDL	4.3	BDL	5.1	BDL	BDL
MW-4d	11/30/94	BDL	240	230	BDL	130	BDL	BDL	600.0	BDL	BDL
	10/27/99	BDL	295	55	BDL	10	BDL	BDL	360.0	BDL	BDL
	10/12/00	3.8	600	220	12	320	5.4	1.2	1162.4	BDL	BDL
MW-4dd	10/31/97	BDL	1100	BDL	BDL	BDL	27	BDL	1127.0	BDL	BDL
	04/28/98	BDL	740	75	BDL	BDL	59	BDL	874.0	BDL	BDL
	10/08/98	660	BDL	20	BDL	BDL	46	BDL	726.0	10	BDL
	04/28/99	BDL	920	82	14	6.2	910	BDL	1932.2	BDL	BDL
	10/27/99	BDL	915	205	20	BDL	1300	BDL	2440.0	13	BDL
	10/12/00	BDL	550	67	24	6.5	490	BDL	1137.5	18	BDL
MW-4s	08/21/90	BDL	210	23	BDL	140	BDL	BDL	373.0	BDL	BDL
	02/08/93	BDL	170	17	BDL	36	BDL	BDL	223.0	26.6	15.4
	09/19/93	BDL	120	10	BDL	22	BDL	BDL	152.0	40	4
	08/30/94	BDL	39	BDL	BDL	BDL	BDL	BDL	39.0	BDL	BDL
	11/30/94	BDL	54	BDL	BDL	8.3	BDL	BDL	62.3	N/A	9

BDL = Below Detection Limit

Table 7
Historical Well Sampling Results
Alcatel Network Systems, Inc.

Well	Date Sampled	1,2-DCA (ug/l)	PCE (ug/l)	1,1-DCE (ug/l)	1,1-DCA (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1,2-TCA (ug/l)	VOC total (ug/l)	Cu (ug/l)	Pb (ug/l)
NCAC 2L Standards		0.38	0.7	NA	700	200	2.8	NA	NA	1000	15
MW-5d	08/21/90	BDL	BDL	BDL	BDL	1	BDL	BDL	1.0	BDL	BDL
	02/08/93	BDL	7	BDL	BDL	BDL	BDL	BDL	7.0	66.6	28.4
MW-5s	09/19/93	BDL	6.8	BDL	1.8	1.8	BDL	2	12.4	BDL	4
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/30/94	BDL	BDL	BDL	3	BDL	BDL	BDL	3.0	BDL	BDL
	09/13/96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	1
	04/10/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/31/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/28/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/08/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/28/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/27/99	BDL	0.2	BDL	BDL	BDL	BDL	BDL	0.2	BDL	BDL
	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL
MW-6s	10/17/90	BDL	BDL	BDL	BDL	1	BDL	BDL	1.0	30	BDL
	02/08/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	28.3	9
MW-7d	11/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	09/13/96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL
	04/10/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/31/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/28/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/08/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/28/99	BDL	2.5	BDL	BDL	BDL	0.7	BDL	3.2	BDL	BDL
	10/27/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-7s	10/17/90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
	02/08/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	221	25.1
	09/19/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	3
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	09/13/96	BDL	1.11	BDL	BDL	BDL	BDL	BDL	1.1	10	1
	04/10/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/31/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/28/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/08/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	BDL
	04/28/99	BDL	BDL	BDL	BDL	BDL	0.55	BDL	0.6	BDL	BDL
	10/27/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL
	10/11/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	BDL
MW-8s	10/17/90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	BDL
	02/08/93	BDL	BDL	BDL	11	BDL	3	BDL	14.0	17.4	6.5
MW-9s	10/18/90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40	10
	02/08/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	56.5	15.3
	09/20/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50	15
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	157	53
MW-10s	06/27/93	BDL	BDL	BDL	BDL	1.9	BDL	BDL	1.9	BDL	BDL
	09/19/93	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	2
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15
	11/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-11s	06/27/93	BDL	270	BDL	BDL	BDL	BDL	BDL	270.0	BDL	BDL
	09/19/93	BDL	230	BDL	3.1	4.3	BDL	BDL	237.4	20	2
	08/30/94	BDL	130	BDL	BDL	BDL	BDL	BDL	130.0	BDL	38
	11/30/94	BDL	120	BDL	BDL	BDL	BDL	BDL	120.0	BDL	12
	09/13/96	BDL	119	1.13	BDL	BDL	BDL	BDL	120.1	BDL	BDL
	04/10/97	BDL	7.78	BDL	BDL	BDL	BDL	BDL	7.8	BDL	BDL
	10/31/97	BDL	25	BDL	BDL	BDL	BDL	BDL	25.0	BDL	BDL
	04/28/98	BDL	16	BDL	BDL	BDL	BDL	BDL	16.0	BDL	BDL
	10/07/98	BDL	12	BDL	BDL	BDL	BDL	BDL	12.0	12	10
	04/27/99	BDL	16	BDL	BDL	BDL	BDL	BDL	16.0	BDL	BDL
	10/11/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-12s	09/19/93	BDL	2	7.3	6.6	BDL	3.7	BDL	19.6	40	2.1
	08/30/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/30/94	BDL	2.6	11	11	3.1	BDL	BDL	27.7	BDL	18
	09/13/96	BDL	BDL	BDL	1.11	BDL	BDL	BDL	1.1	BDL	BDL
	04/10/97	BDL	BDL	3.28	5.82	BDL	BDL	BDL	9.1	BDL	BDL
	10/30/97	BDL	BDL	1	2	BDL	BDL	BDL	3.7	BDL	BDL
	04/28/98	BDL	BDL	1	0.6	BDL	BDL	BDL	1.6	BDL	BDL
	10/08/98	BDL	2.1	0.7	3.4	0.54	0.51	BDL	7.3	BDL	BDL
	04/28/99	BDL	1.6	BDL	BDL	BDL	BDL	BDL	1.6	BDL	BDL
	10/28/99	BDL	0.6	1.8	2.8	BDL	0.2	BDL	5.4	BDL	BDL
	10/12/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27	30

BDL = Below Detection Limit

Table 7
Historical Well Sampling Results
Alcatel Network Systems, Inc.

Well	Date Sampled	1,2-DCA (ug/l)	PCE (ug/l)	1,1-DCE (ug/l)	1,1-DCA (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1,2-TCA (ug/l)	VOC total (ug/l)	Cu (ug/l)	Pb (ug/l)
NCAC 2L Standards		0.38	0.7	NA	700	200	2.8	NA	NA	1000	15
MW-13d	10/31/97	BDL	100	460	42	1300	BDL	BDL	1902.0	169	BDL
	04/27/98	BDL	59	360	BDL	2000	BDL	BDL	2419.0	278	BDL
	10/07/98	2.2	79	200	69	470	BDL	BDL	820.2	93	BDL
	04/27/99	BDL	45	120	39	2000	42	BDL	2246.0	BDL	BDL
	12/14/99	BDL	16.7	135	16.7	1270	BDL	BDL	1438.4	240	BDL
	10/11/00	3.3	73	120	30	670	3.4	2.4	902.1	710	BDL
MW-13s	05/28/95	BDL	BDL	2000	BDL	390	BDL	BDL	2390.0	BDL	6.6
	09/13/96	10.4	242	2610	182	562	3.35	BDL	3609.8	9	8
	04/10/97	13.8	403	2370	233	306	3.61	5.19	3334.6	BDL	BDL
	10/31/97	BDL	2500	1500	BDL	160	BDL	BDL	4160.0	BDL	BDL
	04/27/98	BDL	1700	1900	65	90	BDL	BDL	3755.0	BDL	BDL
	10/07/98	BDL	2400	780	53	85	BDL	BDL	3318.0	13.0	17.0
	04/27/99	8.1	1300	1300	72	98	3.7	BDL	2781.8	BDL	BDL
	12/14/99	BDL	957	1740	68	68	BDL	BDL	2833.0	BDL	BDL
	10/11/00	6.5	390.0	2200.0	69.0	38.0	BDL	BDL	2703.5	42.0	BDL
MW-14d	10/31/97	BDL	BDL	810	BDL	16000	BDL	BDL	16810.0	272.0	BDL
	04/28/98	BDL	BDL	680	BDL	9700	BDL	BDL	10380.0	209.0	BDL
	10/08/98	BDL	82	380	BDL	8500	BDL	BDL	8962.0	320.0	BDL
	04/28/99	BDL	74	190	3.6	3600	5.5	BDL	3873.1	BDL	BDL
	12/14/99	BDL	22	237	16.4	4420	BDL	BDL	4695.7	620.0	BDL
	10/11/00	BDL	93	550	5.2	3400	BDL	BDL	4048.2	250.0	6.0
MW-15d	10/08/98	BDL	28.0	27.0	1.6	3.9	17.0	BDL	77.5	BDL	BDL
	04/28/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/27/99	4.0	15.0	39.0	BDL	BDL	8.0	1.0	67	10.0	BDL
	10/12/00	BDL	11	45	BDL	BDL	11	BDL	67	13	BDL
MW-15s	10/08/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	190	170
	04/28/99	BDL	35.0	2.1	BDL	10.0	BDL	BDL	47.1	BDL	BDL
	10/27/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	37	12
	10/12/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40.0	BDL
MW-1ik	12/01/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-1sk	12/01/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8
MW-2ik	09/21/94	BDL	340	1800	63	300	41	BDL	2544.0	BDL	26
	12/01/94	BDL	260	1500	BDL	220	BDL	BDL	1980.0	BDL	BDL
MW-2sk	09/21/94	BDL	270	1000	47	260	8	BDL	1585.0	14	24
	12/01/94	BDL	240	940	BDL	BDL	BDL	BDL	1180.0	BDL	BDL
	09/13/96	BDL	121	434	15.5	56.8	7.27	BDL	634.6	8	3
MW-3dk	10/08/98	BDL	54	BDL	BDL	2.7	BDL	BDL	56.7	26	29
	04/28/99	BDL	35	2.1	BDL	10	BDL	BDL	47.1	BDL	BDL
	10/27/99	BDL	7.4	0.9	BDL	2.8	BDL	BDL	11.1	17	12
	10/12/00	BDL	81	64	7.6	92	BDL	BDL	244.6	19	16
MW-3sk	09/21/94	BDL	360	28	BDL	58	BDL	BDL	446.0	1	8
	12/01/94	BDL	300	38	BDL	65	BDL	20	423.0	55	57
MW-4sk	09/21/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	32	BDL
	12/01/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-5sk	12/01/94	BDL	BDL	2.5	2.5	BDL	3.1	BDL	8.1	BDL	11
	09/13/96	BDL	6.49	28.7	3.67	BDL	83.7	BDL	122.6	2	BDL
	04/10/97	BDL	BDL	8.22	2.4	BDL	5.41	BDL	16.0	BDL	BDL
	10/30/97	BDL	BDL	1	2	BDL	0.5	BDL	3.5	BDL	BDL
	04/27/98	BDL	BDL	2	0.8	BDL	2	BDL	4.8	BDL	BDL
	10/08/98	BDL	BDL	0.66	BDL	BDL	BDL	BDL	0.7	14	8
	04/28/99	BDL	1.2	BDL	BDL	BDL	1.3	BDL	2.5	BDL	BDL
	10/12/00	BDL	BDL	BDL	0.72	BDL	0.66	BDL	1.38	BDL	BDL
MW-6ik	12/01/94	BDL	5.8	15	BDL	2	4.6	BDL	27.4	BDL	BDL
MW-6sk	12/01/94	BDL	19	58	6.8	5.4	34	BDL	123.2	BDL	BDL
MW-7ik	12/01/94	BDL	3200	400	BDL	230	BDL	BDL	3830.0	BDL	BDL
MW-7sk	12/01/94	BDL	110	79	BDL	28	BDL	7.1	224.1	BDL	8
MW-8dk	12/01/94	BDL	76	32	BDL	13	BDL	BDL	121.0	BDL	BDL
MW-8sk	12/01/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-9dk	12/01/94	BDL	41	180	BDL	27	BDL	BDL	248.0	BDL	BDL
	09/13/96	BDL	81	225	7.27	36.6	8.58	BDL	358.5	BDL	BDL
	01/14/97	BDL	22.3	BDL	BDL	9.43	5.53	BDL	37.3	BDL	BDL
MW-9dk	04/10/97	BDL	10.5	39.7	BDL	2.79	5.69	BDL	58.7	BDL	BDL
	10/30/97	BDL	8	28	2	BDL	5	BDL	43.0	BDL	BDL
	04/27/98	BDL	5	19	BDL	0.6	3	BDL	27.6	BDL	BDL
	10/08/98	BDL	3.7	4.2	0.53	0.65	2.5	BDL	11.6	BDL	BDL
	04/28/99	BDL	2.1	3.2	BDL	0.51	1.2	BDL	7.0	BDL	BDL
	10/27/99	BDL	1	3	BDL	BDL	1.4	BDL	5.4	20	BDL
	10/12/00	BDL	1.2	0.65	BDL	BDL	1.6	BDL	3.45	22	BDL

BDL = Below Detection Limit

Table 7
Historical Well Sampling Results
Alcatel Network Systems, Inc.

Well	Date Sampled	1,2-DCA (ug/l)	PCE (ug/l)	1,1-DCE (ug/l)	1,1-DCA (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	1,1,2-TCA (ug/l)	VOC total (ug/l)	Cu (ug/l)	Pb (ug/l)
NCAC 2L Standards		0.38	0.7	NA	700	200	2.8	NA	NA	1000	15
MW-9sk	12/01/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	09/13/96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL
	01/14/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	23	BDL
	04/10/97	BDL	24.1	181	32.7	271	BDL	BDL	508.8	BDL	BDL
	10/30/97	BDL	0.8	2	1	BDL	BDL	BDL	3.8	BDL	BDL
	04/27/98	BDL	BDL	0.6	BDL	BDL	0.7	BDL	1.3	BDL	BDL
	10/08/98	BDL	1.1	BDL	BDL	BDL	BDL	BDL	1.1	93	22
	04/28/99	BDL	1.9	BDL	BDL	BDL	2.2	BDL	4.1	BDL	BDL
	10/27/99	BDL	0.4	0.6	BDL	BDL	0.6	BDL	1.6	12	BDL
	10/12/00	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	10	BDL
MW-12dk	12/01/94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	09/13/96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	2
	04/10/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/31/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/27/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/08/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	27
	04/28/99	BDL	BDL	BDL	BDL	BDL	0.56	BDL	0.6	BDL	BDL
	10/27/99	0.4	BDL	BDL	BDL	BDL	BDL	BDL	0.4	39	BDL
	10/12/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RW-1	12/01/94	BDL	160	12	BDL	30	BDL	10	212.0	BDL	BDL
RW-2	11/30/94	BDL	220	500	BDL	200	BDL	BDL	920.0	BDL	BDL
CRW-1	01/14/97	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	14
	04/10/97	BDL	2.39	BDL	BDL	BDL	10.7	BDL	13.1	BDL	BDL
	10/29/97	BDL	17	4	BDL	BDL	52	BDL	73.0	BDL	BDL
	04/27/98	BDL	13	3	BDL	BDL	36	BDL	52.0	BDL	10.4
	10/07/98	BDL	3.2	0.72	BDL	BDL	6.4	BDL	10.3	22	20.0
	04/27/99	BDL	4.1	BDL	BDL	BDL	15	BDL	19.1	BDL	BDL
	12/14/99	BDL	7	2.8	0.5	BDL	9.8	BDL	20.1	60	6.0
	10/23/00	BDL	4.3	0.74	BDL	BDL	20	BDL	25.04	16	15
CRW-5	01/14/97	BDL	48.3	120	BDL	11.4	5.92	BDL	185.6	14	23
	04/10/97	BDL	26	81	1.89	6.38	5.39	BDL	120.7	BDL	BDL
	10/29/97	BDL	5	2	BDL	BDL	2	BDL	9.0	83	BDL
	04/28/98	BDL	0.9	2	BDL	BDL	1	BDL	3.9	52.3	25.3
	10/07/98	BDL	1.9	0.75	BDL	BDL	1.2	BDL	3.9	240	21
	04/27/99	BDL	2.6	0.98	BDL	BDL	2.4	BDL	6.0	BDL	BDL
	12/14/99	BDL	BDL	0.5	BDL	BDL	BDL	BDL	0.5	48	BDL
	10/11/00	BDL	2.1	0.97	BDL	BDL	3.2	BDL	6.27	74	BDL
CRW-9	09/13/96	BDL	97.2	15.7	1.32	20	BDL	4.11	138.3	3	BDL
	01/14/97	BDL	282	28.4	BDL	27.6	BDL	BDL	338.0	BDL	27
	04/10/97	BDL	108	12.5	BDL	12	BDL	BDL	132.5	BDL	BDL
	10/29/97	BDL	61	4	BDL	4	BDL	BDL	69.0	BDL	BDL
	04/27/98	BDL	40	5	BDL	2	BDL	BDL	47.0	BDL	BDL
	04/27/99	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
CRW-11	01/14/97	BDL	19	BDL	BDL	BDL	BDL	BDL	19.0	61	66
	04/27/98	BDL	2	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL
	10/07/98	BDL	6.8	BDL	BDL	BDL	BDL	BDL	6.8	10	BDL
	04/27/99	BDL	2	BDL	BDL	BDL	BDL	BDL	2.0	BDL	BDL
	12/14/99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	BDL
	10/11/00	BDL	0.95	BDL	BDL	BDL	BDL	BDL	0.95	12	BDL

BDL = Below Detection Limit

Table 8
Historical Influent / Effluent Laboratory Results
Alcatel Network Systems, Inc.
Raleigh, NC

Compound	Detection Limit (ug/l)	INFLUENT CONCENTRATION (ug/L) Sample Date											
		12/04/96	12/18/96	01/03/97	01/15/97	01/30/97	02/14/97	02/26/97	03/12/97	03/27/97	04/30/97	05/29/97	07/09/97
1,1-DCE	0.5	192	131	181	131	100	90.1	66.1	114	128	180	103	78.9
1,1-DCA	0.5	8.32	5.85	8.92	5.05	3.87	5.11	3.09	5.55	5.42	5.44	3.34	BDL
Chloroform	0.5	8.85	6.04	10.6	6.95	5.05	7.87	4.19	6.57	9.15	7.92	5.77	6.43
1,1,1-TCA	0.5	92.7	46.5	62.8	35.9	40.2	32.2	19.6	44.6	40.7	57.5	36.5	48.9
TCE	0.5	7.37	5.6	7.54	6.01	6.73	4.98	3.04	7.41	7.91	6.69	3.14	5.1
PCE	0.5	219	181	179	181	114	121	49.7	104	102	257	142	105
Total VOC's		528.2	376.0	449.9	365.9	269.9	261.3	145.7	282.1	293.2	514.6	293.8	244.3
Copper (total)	5.0	BDL	BDL	BDL	7	BDL	BDL	BDL	BDL	BDL	9	BDL	8
Lead (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	BDL	BDL

Compound	Detection Limit (ug/l)	EFFLUENT CONCENTRATION (ug/L) Sample Date											
		12/04/96	12/18/96	01/03/97	01/15/97	01/30/97	02/14/97	02/26/97	03/12/97	03/27/97	04/30/97	05/29/97	07/09/97
1,1-DCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-DCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-TCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper (total)	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7	BDL
Lead (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	15	10	BDL	BDL	BDL	100

BDL - below detection limit
VOC - Method 6230D
Total Copper - Method 200.7
Total Lead - Method 6010

Table 8
Historical Influent / Effluent Laboratory Results
Alcatel Network Systems, Inc.
Raleigh, NC

Compound	Detection Limit (ug/l)	INFLUENT CONCENTRATION (ug/L) Sample Date											
		07/28/97	08/19/97	09/22/97	10/28/97	11/26/97	12/17/97	01/26/98	02/19/98	03/24/98	04/20/98	05/29/98	06/25/98
1,1-DCE	0.5	120	115	96.5	139	182	92.9	94.1	BDL	86.5	BDL	93.5	88.2
1,1-DCA	0.5	4.29	5.5	BDL	4.7	7.06	2.9	3.51	3.58	3.46	3.46	3.91	3.08
Chloroform	0.5	5.5	7	5.69	5	7.11	3.26	3.49	3.51	2.63	2.46	2.64	1.96
1,1,1-TCA	0.5	44.7	68.5	51.2	82.5	126	56.3	66.1	75.2	62.1	79.1	BDL	92.6
TCE	0.5	4.45	5.56	3.12	3.44	4.96	3.24	3.87	4.1	4.2	3.29	4.06	3.4
PCE	0.5	121	102	98.6	110	119	85.4	91.6	103	79.1	88.9	104	84.8
Total VOC's		299.9	303.6	255.1	344.6	446.1	244.0	262.7	189.4	238.0	177.2	208.1	274.0
Copper (total)	5.0	72	BDL	6	BDL	BDL	8	BDL	32	24	BDL	9	5
Lead (total)	10.0	BDL	BDL	BDL	11	BDL	BDL	11	BDL	BDL	BDL	BDL	BDL

Compound	Detection Limit (ug/l)	EFFLUENT CONCENTRATION (ug/L) Sample Date											
		07/28/97	08/19/97	09/22/97	10/28/97	11/26/97	12/17/97	01/26/98	02/19/98	03/24/98	04/20/98	05/29/98	06/25/98
1,1-DCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-DCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-TCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper (total)	5.0	6	BDL	BDL	BDL	BDL	BDL	BDL	21	BDL	BDL	BDL	6
Lead (total)	10.0	BDL	BDL	BDL	22	BDL	18	28	BDL	BDL	BDL	BDL	20

BDL - below detection limit
VOC - Method 6230D
Total Copper - Method 200.7
Total Lead - Method 6010

Table 8
Historical Influent / Effluent Laboratory Results
Alcatel Network Systems, Inc.
Raleigh, NC

Compound	Detection Limit (ug/l)	INFLUENT CONCENTRATION (ug/L) Sample Date											
		07/24/98	08/21/98	09/22/98	10/20/98	12/03/98	12/20/98	01/15/99	02/23/99	03/18/99	04/27/99	05/20/99	06/09/99
1,1-DCE	0.5	84.4	59.9	76	51.5	52.2	28.5	58.2	57.9	60.4	*	40.2	*BDL
1,1-DCA	0.5	3.19	BDL	BDL	BDL	2.62	BDL	BDL	BDL	BDL	*	2.1	*BDL
Chloroform	0.5	2.27	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	0.834	*BDL
1,1,1-TCA	0.5	66.4	48.9	72.9	51.5	71.3	73.1	51	66.4	47.9	*	43.6	*BDL
TCE	0.5	2.99	3.07	BDL	3.3	2.06	5.33	4.87	4.45	BDL	*	3.27	*BDL
PCE	0.5	101	87.7	84	87	56.6	80.3	82.3	84.3	66.9	*	67.7	*BDL
Total VOC's		260.3	199.6	232.9	193.3	184.8	133.3	196.4	213.1	175.2	*	157.7	*BDL
Copper (total)	5.0	5	10.2	BDL	BDL	13	16	BDL	BDL	BDL	BDL	BDL	*BDL
Lead (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*BDL

Compound	Detection Limit (ug/l)	EFFLUENT CONCENTRATION (ug/L) Sample Date											
		07/24/98	08/21/98	09/22/98	10/20/98	12/03/98	12/20/98	01/15/99	02/23/99	03/18/99	04/27/99	05/20/99	06/09/99
1,1-DCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	BDL	BDL
1,1-DCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	BDL	BDL
Chloroform	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	BDL	BDL
1,1,1-TCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	BDL	BDL
TCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	BDL	BDL
PCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	*	BDL	BDL
Copper (total)	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - below detection limit
VOC - Method 6230D
Total Copper - Method 200.7
Total Lead - Method 6010

Table 8
Historical Influent / Effluent Laboratory Results
Alcatel Network Systems, Inc.
Raleigh, NC

Compound	Detection Limit (ug/l)	INFLUENT CONCENTRATION (ug/L) Sample Date													
		07/22/99	08/26/99	09/22/99	11/10/99	11/24/99	12/14/99	02/24/00	03/23/00	04/14/00	05/24/00	06/16/00	07/25/00	08/24/00	09/26/00
1,1-DCE	0.5	66.3	51.7	48.7	BDL	30.6	49.7	42.3	29.92	30.57	8.9	32.1	27.1	34.2	41
1,1-DCA	0.5	BDL	1.69	BDL	2.19	1.31	BDL	1.64	1.55	1.89	0.891	1.77	1.81	1.15	2.1
Chloroform	0.5	BDL	1.02	0.95	1.01	BDL	BDL	BDL	BDL	0.756	0.688	0.76	0.66	0.71	BDL
1,1,1-TCA	0.5	45	41.7	37.6	8.78	28.5	31.5	43.6	35.15	43.2	35	36.9	37.2	47.8	28.6
TCE	0.5	2.5	2.77	2.08	4.33	2.34	2.49	2.45	2.42	2.43	1.01	2.41	2.4	2.13	2.73
PCE	0.5	65.8	69.1	58.2	11.7	54.2	64.7	BDL	60.21	68.76	38.4	69.3	71.3	65.3	80.5
Total VOC's		179.6	168.0	147.5	28.0	117.0	148.4	89.99	129.25	147.63	84.89	143.24	140.47	151.29	154.93
Copper (total)	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

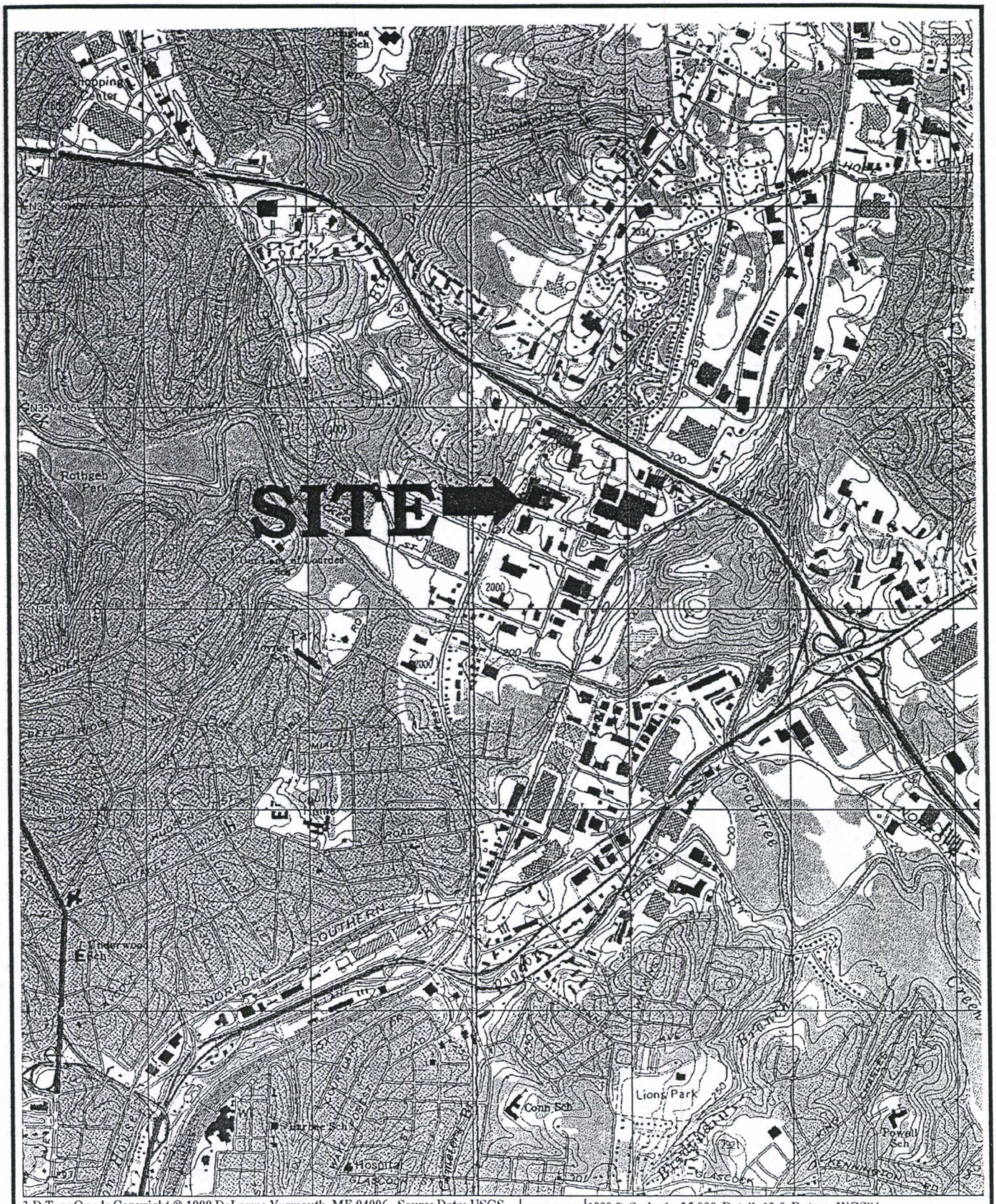
Compound	Detection Limit (ug/l)	EFFLUENT CONCENTRATION (ug/L) Sample Date													
		07/22/99	08/26/99	09/22/99	11/10/99	11/24/99	12/14/99	02/24/00	03/23/00	04/14/00	05/24/00	06/16/00	07/25/00	08/24/00	09/26/00
1,1-DCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-DCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-TCA	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCE	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper (total)	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead (total)	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - below detection limit
VOC - Method 6230D
Total Copper - Method 200.7
Total Lead - Method 6010

Table 9
Coefficient of Determination
ALCATEL Network Systems, Inc.
Raleigh, North Carolina

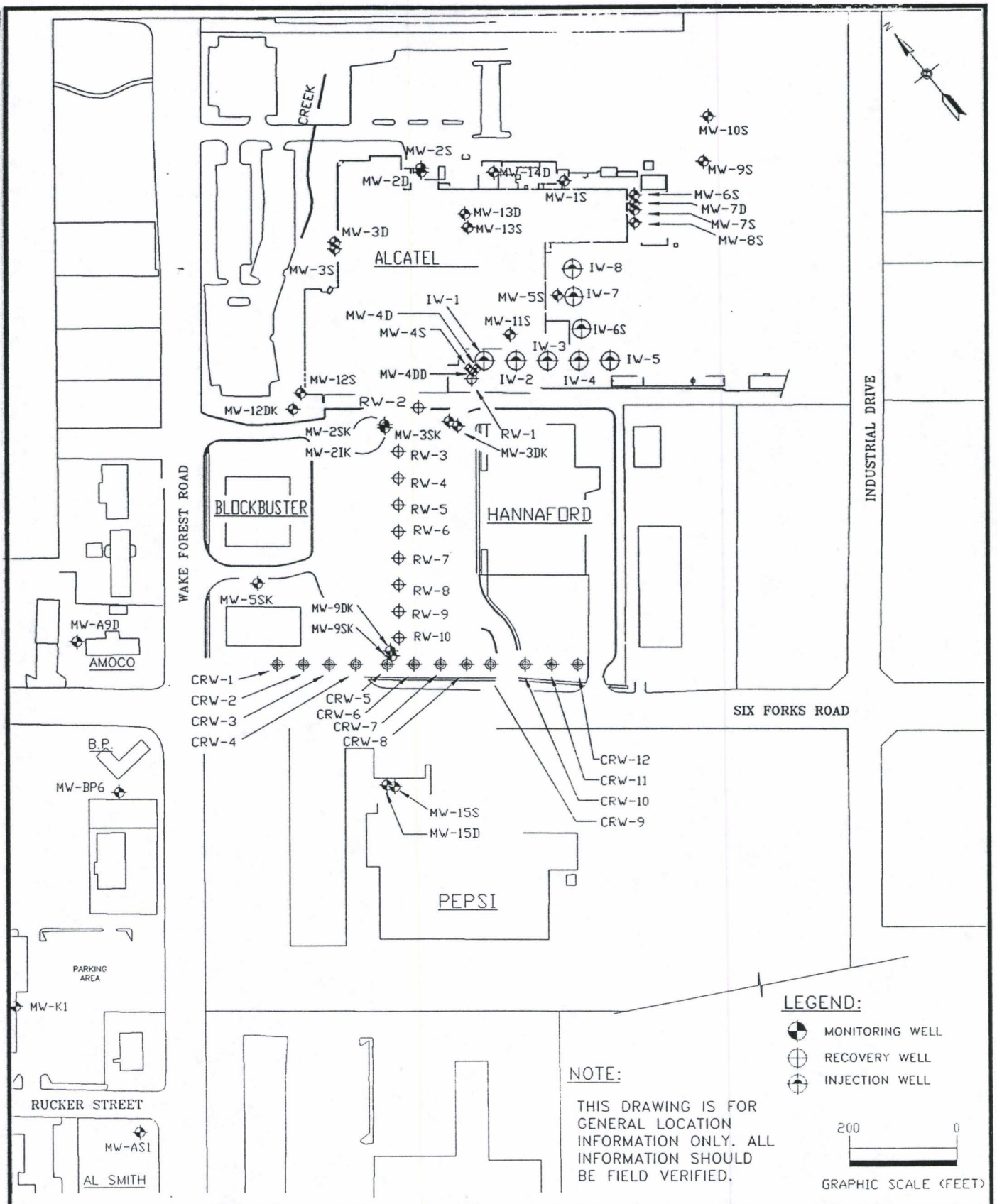
Well	Coefficient	Trend	Percent Change (from 10/97 to present)
MW-2s	0.93	decreasing	80.8
MW-3d	0.97	decreasing	99.6
MW-11s	0.70	decreasing	61.6
MW-13s	0.83	decreasing	35.0
MW-14d	0.75	decreasing	75.9
MW-9dk	0.97	decreasing	92.0
CRW-1	0.62	decreasing	65.7
CRW-9	1.00	decreasing	79.6
CRW-11	0.68	decreasing	52.5
MW-2dd	-----	none	-----
MW-3s	-----	none	-----
MW-4dd	-----	none	-----
MW-12s	-----	none	-----
MW-13d	-----	none	-----
MW-3dk	-----	none	-----
MW-5sk	-----	none	-----
MW-9sk	-----	none	-----
CRW-5	-----	none	-----

FIGURES



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 1000 ft Scale: 1 : 25,000 Detail: 13-0 Datum: WGS84

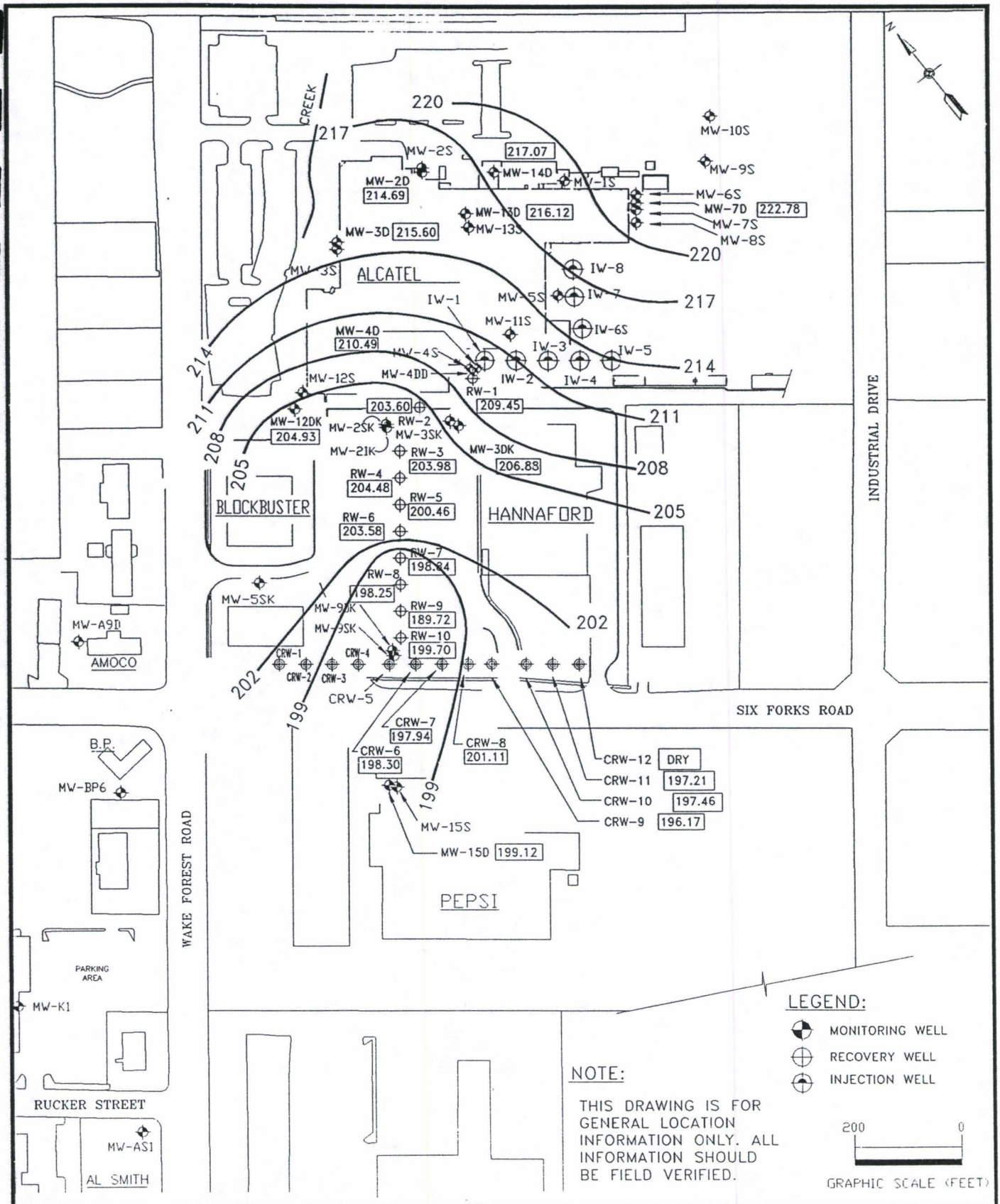
TRC Triangle, Inc. RALEIGH, N.C. WILMINGTON, N.C. CHARLOTTE, N.C.	PROJECT MGR./DRN.BY S.SHOMER/kf APPROVED: DATE: 11/00 SCALE: NOTED	CLIENT/SITE TOPOGRAPHIC LOCATION MAP ALCATEL NETWORK SYSTEMS – Raleigh, NC FILE: P:\29201\FIGURE1 PROJ.# 292010010	FIG. 1



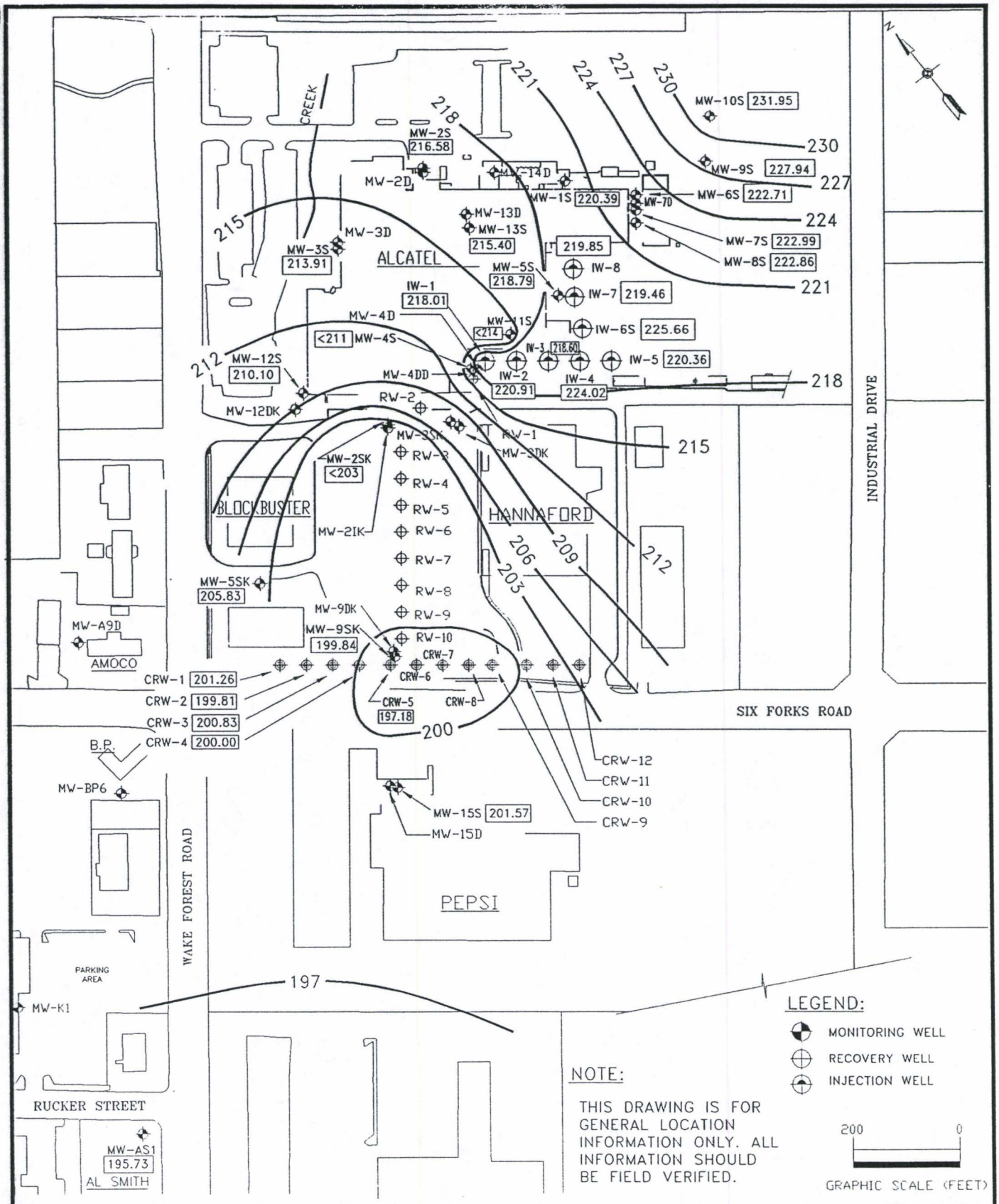
TRC Triangle, Inc.

RALEIGH, N.C.
WILMINGTON, N.C.
CHARLOTTE, N.C.

PROJECT MGR./DRN.BY	SITE BASE MAP	FIG.
S.SHOMER/kf	ALCATEL NETWORK SYSTEMS Raleigh, North Carolina SEVENTH INTERIM MEASURES PROGRESS REPORT	2
APPROVED:		
DATE 11/00 / SCALE NOTED	FILE:P:\29201\FIGURE2 / PROJ.# 292010010	



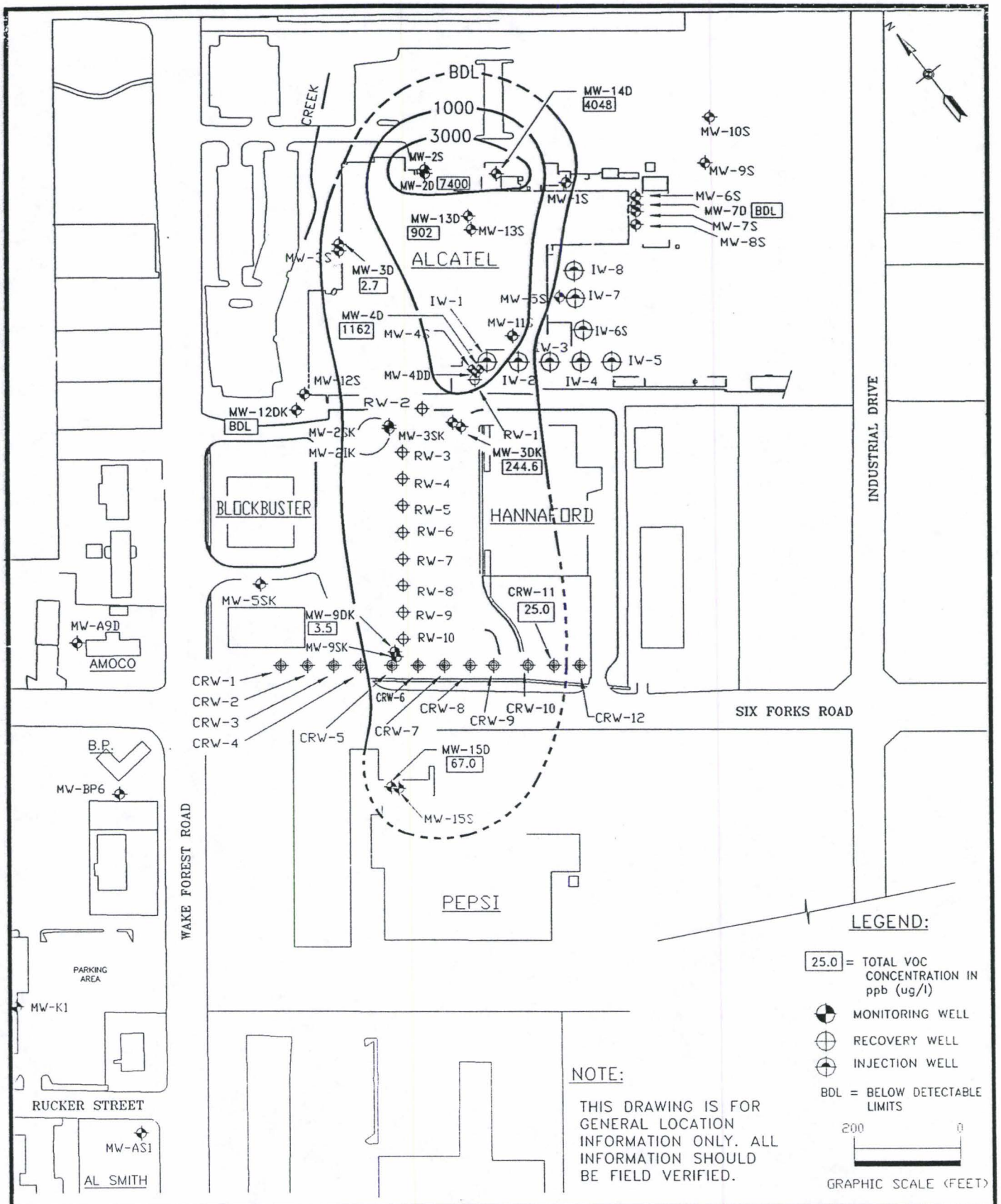
TRC Triangle, Inc. RALEIGH, N.C. WILMINGTON, N.C. CHARLOTTE, N.C.	PROJECT MGR./DRN.BY S.SHOMER/kf APPROVED: DATE 11/00 SCALE NOTED	GROUNDWATER ELEVATIONS (OCT. 2000 - BEDROCK) ALCATEL NETWORK SYSTEMS Raleigh, North Carolina SEVENTH INTERIM MEASURES PROGRESS REPORT FILE:P:\29201\FIGURE3 PROJ.# 292010010	FIG. 3



TRC Triangle, Inc.

RALEIGH, N.C.
WILMINGTON, N.C.
CHARLOTTE, N.C.

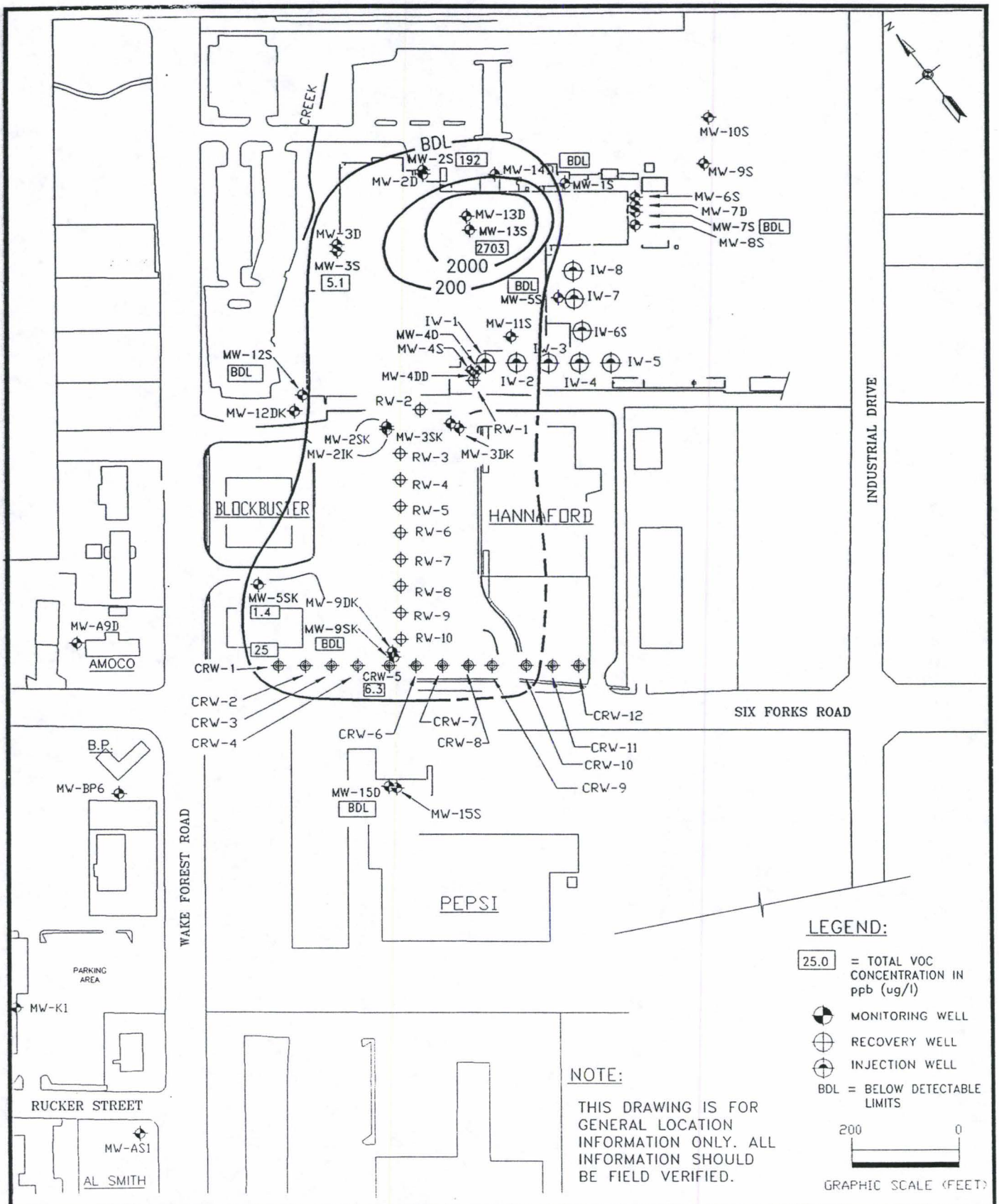
PROJECT MGR./DRN.BY	GROUNDWATER ELEVATIONS (OCT. 2000 - UNCONSOLIDATED)	FIG.
S.SHOMER/kf	ALCATEL NETWORK SYSTEMS Raleigh, North Carolina SEVENTH INTERIM MEASURES PROGRESS REPORT	4
APPROVED:		
DATE 11/00 / SCALE NOTED	FILE:P:\29201\FIGURE4 / PROJ.# 292010010	



TRC Triangle, Inc.

RALEIGH, N.C.
WILMINGTON, N.C.
CHARLOTTE, N.C.

PROJECT MGR./DRN.BY S.SHOMER/kf	VOC ISOCONCENTRATION MAP (BEDROCK)	FIG.
APPROVED:	ALCATEL NETWORK SYSTEMS Raleigh, North Carolina SEVENTH INTERIM MEASURES PROGRESS REPORT	5
DATE 11/00 SCALE NOTED	FILE:P:\29201\FIGURE5 PROJ.# 292010010	



TRC Triangle, Inc.

RALEIGH, N.C.
WILMINGTON, N.C.
CHARLOTTE, N.C.

PROJECT MGR./DRN.BY	S.SHOMER/kf
APPROVED:	
DATE	11/00
SCALE	NOTED

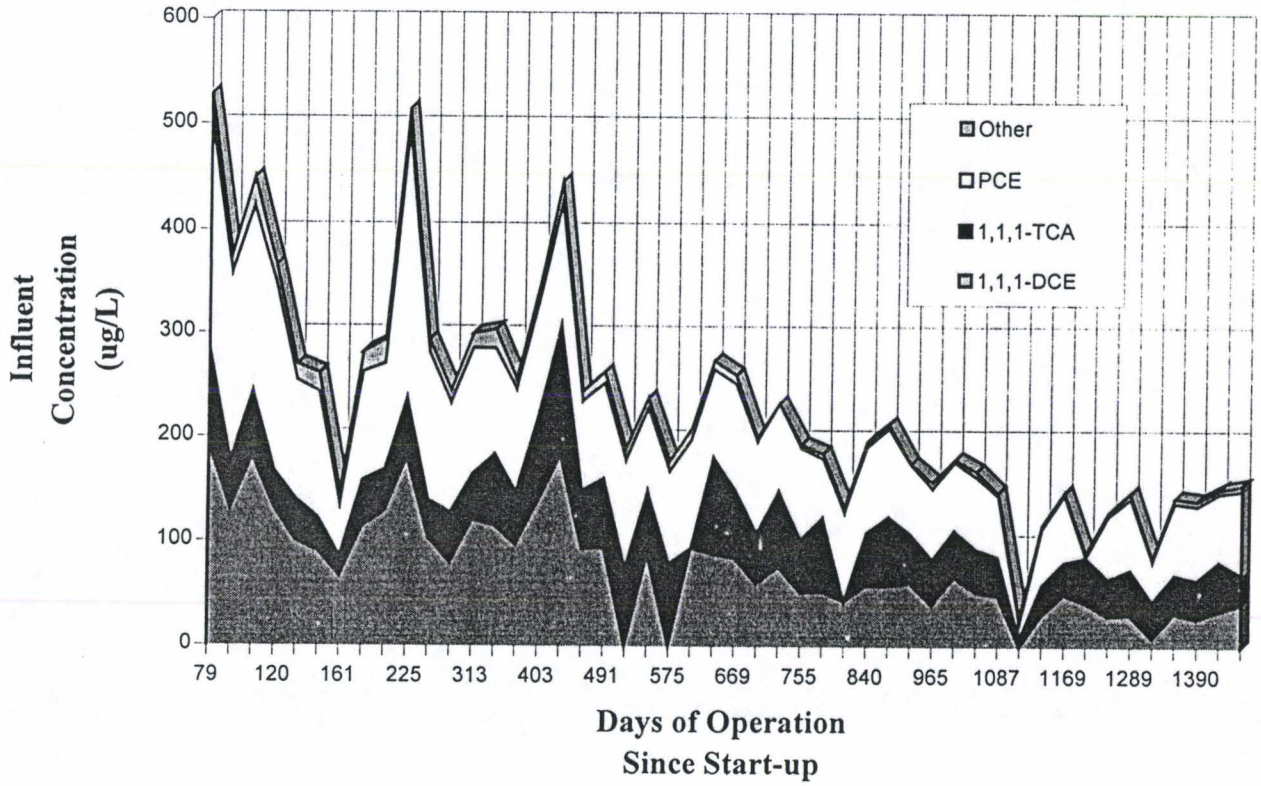
VOC ISOCONCENTRATION MAP (UNCONSOLIDATED)

ALCATEL NETWORK SYSTEMS
Raleigh, North Carolina
SEVENTH INTERIM MEASURES PROGRESS REPORT

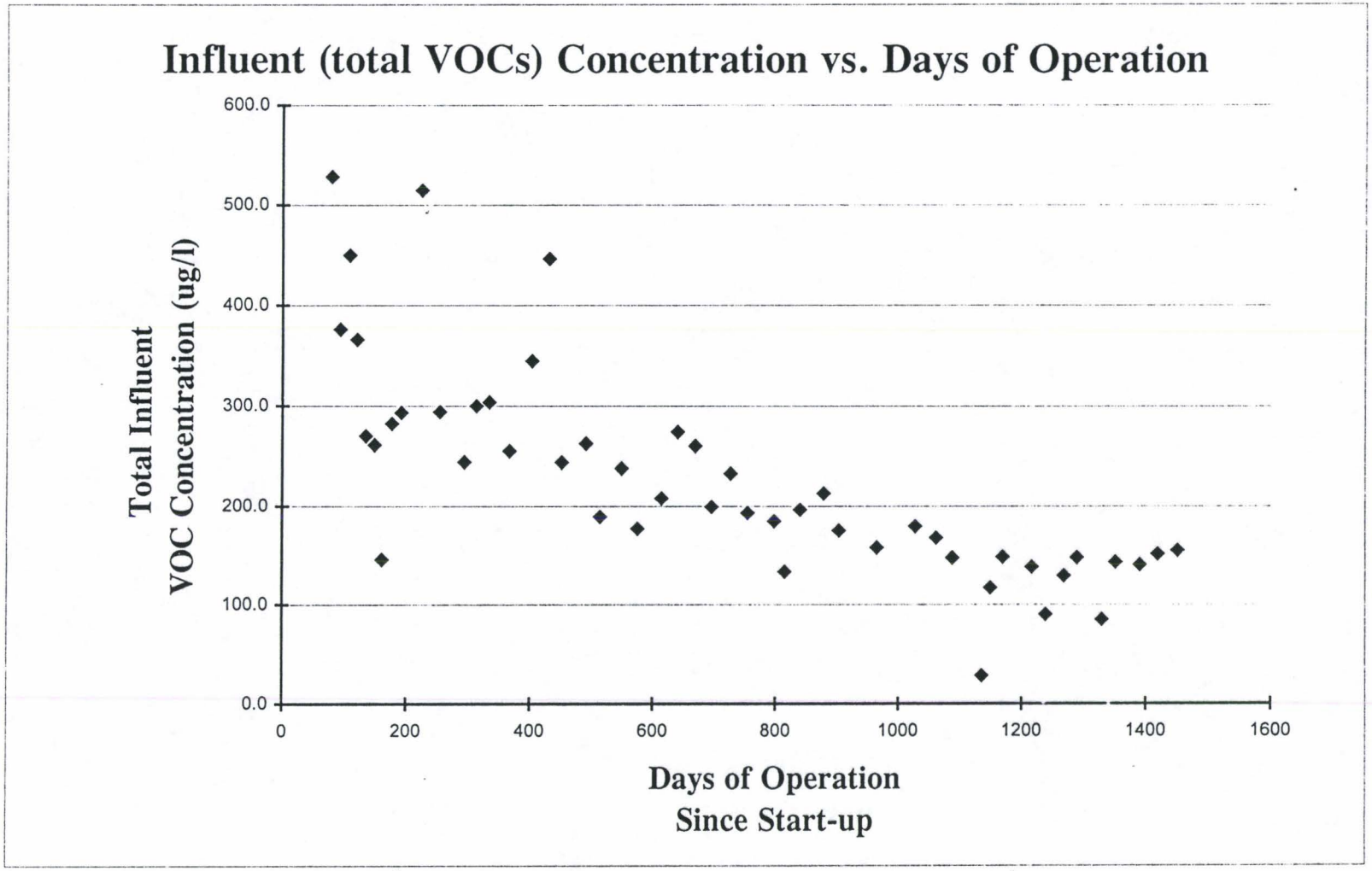
FILE:P:\29201\FIGURE6 | PROJ.# 292010010

FIG. 6

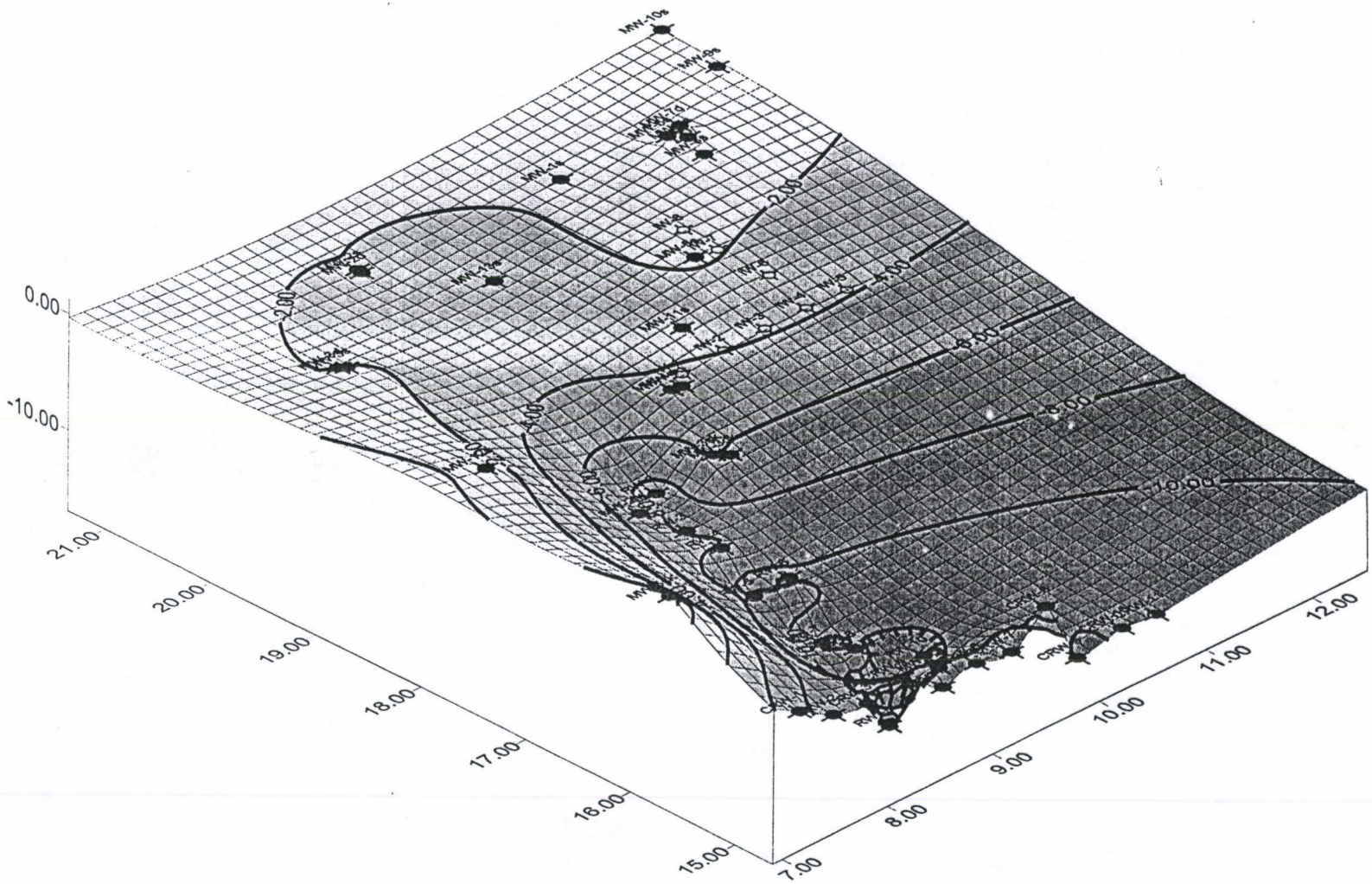
Influent (primary contaminant) Concentration vs. Time



TRC Triangle, Inc. RALEIGH, N.C. WILMINGTON, N.C. CHARLOTTE, N.C.	PROJECT MGR./DRN.BY S. SHOMER/kf APPROVED DATE 11/00 SCALE NONE	CLIENT/SITE ALCATEL NETWORK SYSTEMS Raleigh, North Carolina FILE: P:\29201\FIG789 PROJ.# 292010010	FIG. 7

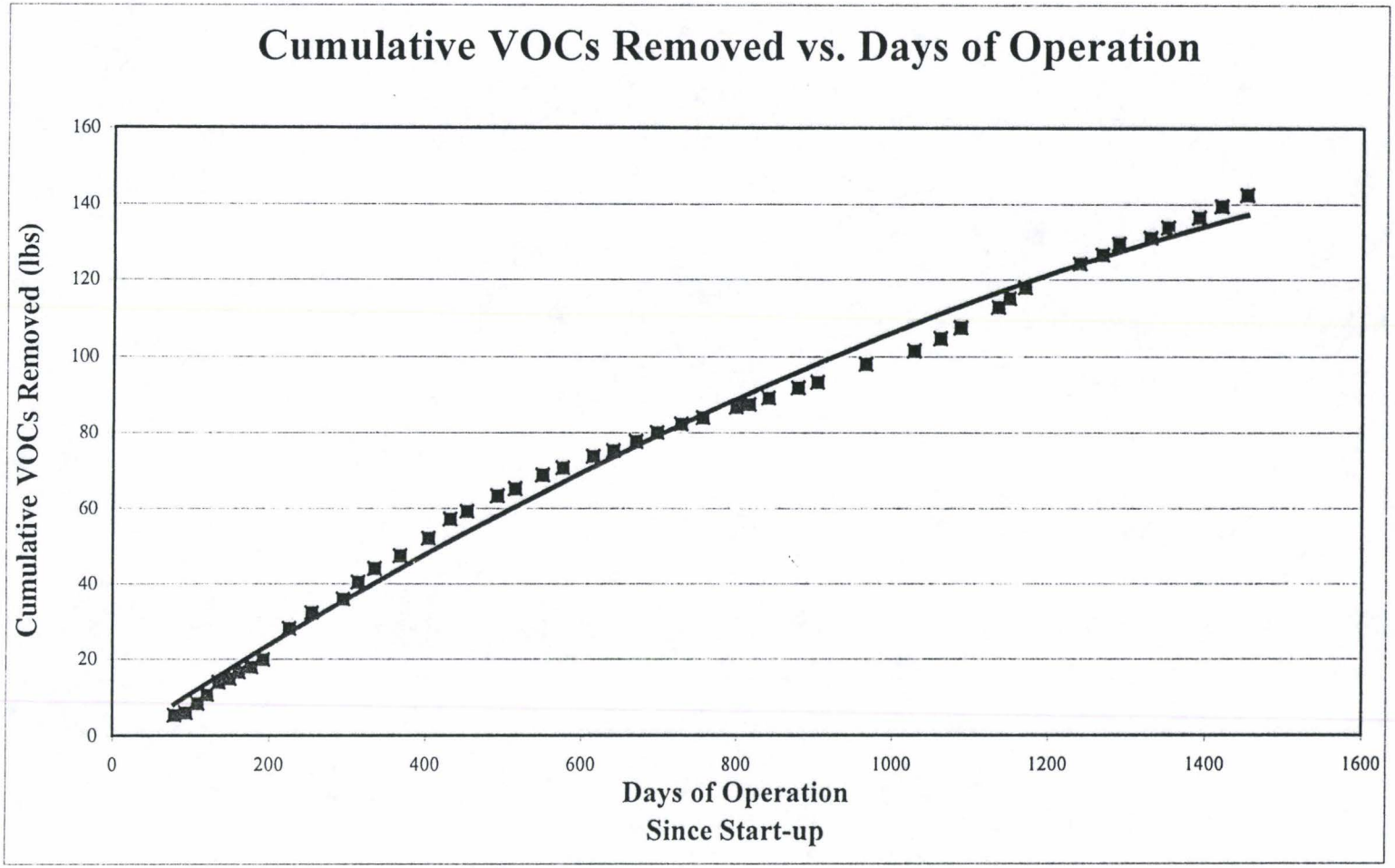


TRC Triangle, Inc. RALEIGH, N.C. WILMINGTON, N.C. CHARLOTTE, N.C.	PROJECT MGR./DRN.BY S. SHOMER/kf APPROVED DATE 11/00 SCALE NONE	CLIENT/SITE ALCATEL NETWORK SYSTEMS Raleigh, North Carolina FILE: P:\29201\FIG789 PROJ.# 292010010	FIG. 8



CHANGE IN GROUNDWATER ELEVATIONS FROM SEPTEMBER 1996 TO OCTOBER 2000

TRC Triangle, Inc. RALEIGH, N.C. WILMINGTON, N.C. CHARLOTTE, N.C.	PROJECT MGR./DRN.BY S. SHOMER/kf APPROVED DATE 11/00 SCALE NONE	CLIENT/SITE ALCATEL NETWORK SYSTEMS Raleigh, North Carolina FILE: P:\29201\FIG789 PROJ.# 292010010	FIG. 9



TRC Triangle, Inc. RALEIGH, N.C. WILMINGTON, N.C. CHARLOTTE, N.C.	PROJECT MGR./DRN.BY S. SHOMER/kf APPROVED DATE 11/00 SCALE NONE	CLIENT/SITE ALCATEL NETWORK SYSTEMS Raleigh, North Carolina FILE: P:\29201\FIG789 PROJ.# 292010010	FIG. 10

APPENDIX A

LABORATORY ANALYTICAL REPORTS

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

November 24,1999

Central Files
Div. of Environmental Management
DENR
P. O. Box 29535
Raleigh, North Carolina 27626-0535

SUBJECT: October 1999 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on November 10, 1999 from the Influent and Effluent sampling ports of the system.

Due to an oversight, the October sample wasn't collected until November 10. However, the Chronic Toxicity samples collected during October passed. In addition, the samples for November were collected on November 24. I apologize for any inconvenience this may cause.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Mr. Mike Haseltine, Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC0086126 DISCHARGE NO. _____ MONTH Oct YEAR 99
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-6248
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Dikran Kabbendjian

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 11/24/99
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☐ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspended Solids mg/l	01042 Copper mg/l	01045 Iron mg/l	01051 Lead mg/l	01055 Manganese mg/l						
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10	NOV		X					<1.0	<.010	0.032	<0.005	<0.010						
11																		
12																		
13																		
14																		
15																		
16																		
17																		
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22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G	G	G						
Monthly Limit				0.08														

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements — [X] Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements — [ ] Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenanc and a time table for improvements to be made.

Due to an oversight, the Oct sample wasn't collected until NOV 10. The CHRONIC TOXICITY sample collected in Oct passe A NOV. Sample was also collected on NOV 24.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accorc with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significa penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V. Kabbendjian 11/24/99
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/20
Permittee Address Phone Number (919) 850-6248 Permit Exp. Da

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formalde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 ((2) (D).

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

November 24, 1999

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: October 1999 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on November 10, 1999 from the Influent and Effluent sampling ports of the system.

Due to an oversight, the October sample wasn't collected until November 10. However, the Chronic Toxicity samples collected during October passed. In addition, the samples for November were collected on November 24. I apologize for any inconvenience this may cause.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Mr. Mike Haseltine, Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

ACILITY INFORMATION

Please Print Clearly or Type

cility Name: ALCATEL NETWORK SYSTEMS
rmit Name (if different): _____
cility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
ntact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
ell Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

ell Identification Number (from Permit): _____
ell Depth: _____ ft. Well Diameter: _____ in.
reened Interval: _____ ft. to _____ ft.
pth to Water Level: _____ ft. below measuring point.
easuring Point is _____ ft. above land surface.
llons of water pumped/bailed before sampling: _____
eld analysis: pH _____, Specific Conductance _____ uMhos
Temp. _____ °C, Odor _____ Appearance _____

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #:
Non-Discharge WQ001221 EXPIRATION DATE: 8/31/2001
UIC _____
NPDES _____

TYPE OF PERMITTED OPERATION BEING MONITORED

____ Lagoon	____ Remediation: Infiltration Gallery
____ Spray Field	X Remediation: Injection Wells
____ Rotary Distributor	____ Land Application of Sludge
____ Other:	

NOTE: **Values should reflect dissolved and colloidal concentrations.**

Date sample collected: _____ Date sample analyzed: _____
Laboratory Name: TRITEST
Certification No. WW # 067

ARAMETERS (Samples for metals were collected unfiltered ✓ YES ____ NO and field acidified ✓ YES ____ NO)

OD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
oliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	mg/l
oliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
ote: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
ssolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
H (when analyzed)	units	Ba - Barium	mg/l		
OC	mg/l	Ca - Calcium	mg/l		
hloride	mg/l	Cd - Cadmium	mg/l		
senic	mg/l	Chromium: Total	mg/l		
rease and Oils	mg/l	Cu - Copper	mg/l		
henol	mg/l	Fe - Iron	mg/l		
ulfate	mg/l	Hg - Mercury	mg/l		
pecific Conductance	uMhos	K - Potassium	mg/l		
otal Ammonia	mg/l	Mg - Magnesium	mg/l		
KN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ____ (0)
VOC _____ : method # = 6230-D
_____ : method # = _____
_____ : method # = _____

certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced sing approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, cluding the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

Dikran V. Kabbendjian 11/25/99

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

** AMENDED REPORT **

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 0/00/00
Date Received: 11/10/99

Work Order #: 9909-01018

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

N.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
001	Ground Water-Effluent	11/10/1999	8:30	GW	4±2°C

Test Performed	Method	Results	Tech	Date Analyzed	Qual
VOCs in GW	SM 6230D		MB	11/11/99	
Benzene	217	<0.5 ug/L	MB	11/11/99	
Bromobenzene	217	<0.5 ug/L	MB	11/11/99	
Bromochloromethane	217	<0.5 ug/L	MB	11/11/99	
Bromodichloromethane	217	<0.5 ug/L	MB	11/11/99	
Bromoform	217	<0.5 ug/L	MB	11/11/99	
Bromomethane	217	<0.5 ug/L	MB	11/11/99	
n-Butylbenzene	217	<0.5 ug/L	MB	11/11/99	
sec-Butylbenzene	217	<0.5 ug/L	MB	11/11/99	
tert-Butylbenzene	217	<0.5 ug/L	MB	11/11/99	
Carbon tetrachloride	217	<0.5 ug/L	MB	11/11/99	
Chlorobenzene	217	<0.5 ug/L	MB	11/11/99	
Chloroethane	217	<0.5 ug/L	MB	11/11/99	
Chlcroform	217	<0.5 ug/L	MB	11/11/99	
Chloromethane	217	<0.5 ug/L	MB	11/11/99	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	11/11/99	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	11/11/99	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	11/11/99	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	11/11/99	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	11/11/99	
Dibromomethane	217	<0.5 ug/L	MB	11/11/99	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	11/11/99	
1,1-Dichloroethane	217	<0.5 ug/L	MB	11/11/99	
1,2-Dichloroethane	221	<0.5 ug/L	MB	11/11/99	
1,1-Dichloroethene	217	<0.5 ug/L	MB	11/11/99	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	11/11/99	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	11/11/99	
1,2-Dichloropropane	217	<0.5 ug/L	MB	11/11/99	

---- Continued on Next Page ----

TRITEST, INC.

** AMENDED REPORT *

Laboratory Report

Alcatel Network Systems, Inc. Report Date 0/00/0(

Project No. 01 Work Order No. 9909-01018

No. Sample ID
001 Ground Water-Effluent

Test Performed	Method	Results	Tech	Date Analyzed	Qual
1,3-Dichloropropane	217	<0.5 ug/L	MB	11/11/99	
2,2-Dichloropropane	217	<0.5 ug/L	MB	11/11/99	
1,1-Dichloropropene	217	<0.5 ug/L	MB	11/11/99	
Ethylbenzene	217	<0.5 ug/L	MB	11/11/99	
Hexachlorobutadiene	217	<0.5 ug/L	MB	11/11/99	
Isopropylbenzene	217	<0.5 ug/L	MB	11/11/99	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	11/11/99	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	11/11/99	
Naphthalene	217	<0.5 ug/L	MB	11/11/99	
n-Propylbenzene	217	<0.5 ug/L	MB	11/11/99	
Styrene	217	<0.5 ug/L	MB	11/11/99	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	11/11/99	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	11/11/99	
Tetrachloroethene	217	<0.5 ug/L	MB	11/11/99	
Toluene	217	<0.5 ug/L	MB	11/11/99	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	11/11/99	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	11/11/99	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	11/11/99	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	11/11/99	
Trichloroethene	217	<0.5 ug/L	MB	11/11/99	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	11/11/99	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	11/11/99	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	11/11/99	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	11/11/99	
Vinyl chloride	221	<0.5 ug/L	MB	11/11/99	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	11/11/99	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	11/11/99	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	11/11/99	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	11/18/99	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	11/18/99	
Iron by ICP/MS-Waters	EPA 200.8	0.032 mg/L	SRB	11/18/99	
Manganese by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	11/18/99	
Metals Prep	EPA 3050	done	CLP	11/17/99	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 0/00/00

Project No. 01 Work Order No. 9909-01018

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	11/10/1999	8:40	GW	4±2°C

Test Performed	Method	Results	Tech	Date Analyzed	Qual
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	11/11/99	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	11/18/99	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	11/18/99	
Iron by ICP/MS-Waters	EPA 200.8	0.059 mg/L	SRB	11/18/99	
Manganese by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	11/18/99	
Metals Prep	EPA 3050	done	CLP	11/17/99	
VOCs in GW	SM 6230D				
Benzene	217	<0.5 ug/L	MB	11/15/99	
Bromobenzene	217	<0.5 ug/L	MB	11/15/99	
Bromochloromethane	217	<0.5 ug/L	MB	11/15/99	
Bromodichloromethane	217	<0.5 ug/L	MB	11/15/99	
Bromoform	217	<0.5 ug/L	MB	11/15/99	
Bromomethane	217	<0.5 ug/L	MB	11/15/99	
n-Butylbenzene	217	<0.5 ug/L	MB	11/15/99	
sec-Butylbenzene	217	<0.5 ug/L	MB	11/15/99	
tert-Butylbenzene	217	<0.5 ug/L	MB	11/15/99	
Carbon tetrachloride	217	<0.5 ug/L	MB	11/15/99	
Chlorobenzene	217	<0.5 ug/L	MB	11/15/99	
Chloroethane	217	<0.5 ug/L	MB	11/15/99	
Chloroform	217	1.01 ug/L	MB	11/15/99	
Chloromethane	217	<0.5 ug/L	MB	11/15/99	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	11/15/99	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	11/15/99	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	11/15/99	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	11/15/99	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	11/15/99	
Dibromomethane	217	<0.5 ug/L	MB	11/15/99	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	11/15/99	
1,1-Dichloroethane	217	2.19 ug/L	MB	11/15/99	
1,2-Dichloroethane	221	<0.5 ug/L	MB	11/15/99	
1,1-Dichloroethene	217	<0.5 ug/L	MB	11/15/99	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	11/15/99	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	11/15/99	
1,2-Dichloropropane	217	<0.5 ug/L	MB	11/15/99	
1,3-Dichloropropane	217	<0.5 ug/L	MB	11/15/99	
2,2-Dichloropropane	217	<0.5 ug/L	MB	11/15/99	
1,1-Dichloropropene	217	<0.5 ug/L	MB	11/15/99	
Ethylbenzene	217	<0.5 ug/L	MB	11/15/99	
Hexachlorobutadiene	217	<0.5 ug/L	MB	11/15/99	
Isopropylbenzene	217	<0.5 ug/L	MB	11/15/99	

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TRITEST, INC.

** AMENDED REPORT **

Laboratory Report

Alcatel Network Systems, Inc.

Report Date 0/00/00

Project No. 01

Work Order No. 9909-01018

Sample ID
002 Ground Water- Influent

Test Performed	Method	Results	Tech	Date Analyzed	Qual
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	11/15/99	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	11/15/99	
Naphthalene	217	<0.5 ug/L	MB	11/15/99	
n-Propylbenzene	217	<0.5 ug/L	MB	11/15/99	
Styrene	217	<0.5 ug/L	MB	11/15/99	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	11/15/99	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	11/15/99	
Tetrachloroethene	217	11.7 ug/L	MB	11/15/99	
Toluene	217	<0.5 ug/L	MB	11/15/99	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	11/15/99	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	11/15/99	
1,1,1-Trichloroethane	217	8.78 ug/L	MB	11/15/99	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	11/15/99	
Trichloroethene	217	4.33 ug/L	MB	11/15/99	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	11/15/99	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	11/15/99	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	11/15/99	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	11/15/99	
Vinyl chloride	221	<0.5 ug/L	MB	11/15/99	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	11/15/99	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	11/15/99	

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 9909-01018

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D K Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G	11/10	11/10 8:30	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-FEW, AA-MNW, AA-METLX	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran Kabbendjian	Bela Karaszkiewicz	11/10/99	11:20
Relinquished by (signature) Bela Karaszkiewicz	Received by (signature) Scott Sew	11/10/99	1215
Relinquished by (signature) Scott Sew	Received by (signature) [illegible]	11/10/99	2:25
[illegible]	[illegible]	11/10/99	2:40

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 2.0 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

11/10

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 9909-01018

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D V Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G		11/10 8:40	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-FEW, AA-MNW, AA-METLX	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran Kabbendjian	Pete Karaletsanos	11/10/99	11:20
Pete Karaletsanos	Carl-Scott Fair	11/10/99	1215
Scott Fair	[illegible]	11/10/99	1235
[illegible]	[illegible]		

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 2.0 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

11/10

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

January 3, 2000

Central Files
Div. of Environmental Management
DENR
P. O. Box 29535
Raleigh, North Carolina 27626-0535

SUBJECT: December 1999 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on December 14, 1999 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Mr. Mike Haseltine, Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC0086126 DISCHARGE NO. _____ MONTH Dec YEAR 99
FACILITY NAME ALCATEL CLASS ___ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D.KABBENDJIAN GRADE III PHONE (919) 850-624
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Dikran Kabbendjian

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

Dikran V. Kabbendjian 1/3/200
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☒ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total suspended Solids mg/l	01042 Copper mg/l	01045 Iron mg/l	01051 Lead mg/l	01055 Manganese mg/l						
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14			✓					1.4	<.010		<.005							
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25																		
26																		
27																		
28																		
29																		
30																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)																		
Monthly Limit				0.08				G	G	G	G	G						

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

January 3, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: December 1999 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on December 14, 1999 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Mr. Mike Haseltine, Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY, GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT, P.O. BOX 29578, RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL NETWORK SYSTEMS
Permit Name (if different):
Facility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit):
Well Depth: ft. Well Diameter: in.
Screened Interval: ft. to ft.
Depth to Water Level: ft. below measuring point.
Measuring Point is ft. above land surface.
Gallons of water pumped/bailed before sampling:
Field analysis: pH , Specific Conductance uMhos
Temp. °C, Odor Appearance

For Groundwater Treatment Systems Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ0001221 UIC
NPDES

TYPE OF PERMITTED OPERATION BEING MONITORED
___ Lagoon ___ Remediation: Infiltration Gallery
___ Spray Field X Remediation: Injection Wells
___ Rotary Distributor ___ Land Application of Sludge
___ Other:

NOTE: Values should reflect dissolved and colloidal concentrations.

Date sample collected: 12/14/99 Date sample analyzed: 12/16/99
Laboratory Name: TRITEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ___ NO and field acidified ✓ YES ___ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l	TSS = 1.4 mg/l	
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ___ (0)
VOC : method # = 6230-D
: method # =
: method # =

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent) Name and Title - Please print or type
Dikran V. Kabbendjian 1/3/2000
Signature of Permittee (or Authorized Agent)

V-59 Rev. 4/98

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 12/22/99
Date Received: 12/14/99

Work Order #: 9911-00903

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
001	Ground Water-Effluent	12/14/1999	10:30	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	12/16/99	
Benzene	217	<0.5 ug/L	MB	12/16/99	
Bromobenzene	217	<0.5 ug/L	MB	12/16/99	
Bromochloromethane	217	<0.5 ug/L	MB	12/16/99	
Bromodichloromethane	217	<0.5 ug/L	MB	12/16/99	
Bromoform	217	<0.5 ug/L	MB	12/16/99	
Bromomethane	217	<0.5 ug/L	MB	12/16/99	
n-Butylbenzene	217	<0.5 ug/L	MB	12/16/99	
sec-Butylbenzene	217	<0.5 ug/L	MB	12/16/99	
tert-Butylbenzene	217	<0.5 ug/L	MB	12/16/99	
Carbon tetrachloride	217	<0.5 ug/L	MB	12/16/99	
Chlorobenzene	217	<0.5 ug/L	MB	12/16/99	
Chloroethane	217	<0.5 ug/L	MB	12/16/99	
Chloroform	217	<0.5 ug/L	MB	12/16/99	
Chloromethane	217	<0.5 ug/L	MB	12/16/99	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Dibromomethane	217	<0.5 ug/L	MB	12/16/99	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	12/16/99	
1,1-Dichloroethane	217	<0.5 ug/L	MB	12/16/99	
1,2-Dichloroethane	221	<0.5 ug/L	MB	12/16/99	
1,1-Dichloroethene	217	<0.5 ug/L	MB	12/16/99	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	12/16/99	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	12/16/99	
1,2-Dichloropropane	217	<0.5 ug/L	MB	12/16/99	

---- Continued on Next Page ----

TRITEST, INC.

Laboratory Report

Alcatel Network Systems, Inc. Report Date 12/22/9

Project No. 01 Work Order No. 9911-0090

No. Sample ID
01 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,3-Dichloropropane	217	<0.5 ug/L	MB	12/16/99	
2,2-Dichloropropane	217	<0.5 ug/L	MB	12/16/99	
1,1-Dichloropropene	217	<0.5 ug/L	MB	12/16/99	
Ethylbenzene	217	<0.5 ug/L	MB	12/16/99	
Hexachlorobutadiene	217	<0.5 ug/L	MB	12/16/99	
Isopropylbenzene	217	<0.5 ug/L	MB	12/16/99	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Naphthalene	217	<0.5 ug/L	MB	12/16/99	
n-Propylbenzene	217	<0.5 ug/L	MB	12/16/99	
Styrene	217	<0.5 ug/L	MB	12/16/99	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	12/16/99	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	12/16/99	
Tetrachloroethene	217	<0.5 ug/L	MB	12/16/99	
Toluene	217	<0.5 ug/L	MB	12/16/99	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	12/16/99	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	12/16/99	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	12/16/99	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	12/16/99	
Trichloroethene	217	<0.5 ug/L	MB	12/16/99	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	12/16/99	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	12/16/99	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	12/16/99	
Vinyl chloride	221	<0.5 ug/L	MB	12/16/99	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Total Suspended Solids	EPA 160.2	1.4 mg/L	TP	12/16/99	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	12/20/99	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	12/20/99	
Metals Prep	EPA 3050	done	CLP	12/16/99	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	12/14/1999	10:40	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	12/16/99	
Benzene	217	<0.5 ug/L	MB	12/16/99	

---- Continued on Next Page ----

TRITEST, INC.

Laboratory Report

Alcatel Network Systems, Inc. Report Date 12/22/9

Project No. 01 Work Order No. 9911-0090

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qual
Bromobenzene	217	<0.5 ug/L	MB	12/16/99	
Bromochloromethane	217	<0.5 ug/L	MB	12/16/99	
Bromodichloromethane	217	<0.5 ug/L	MB	12/16/99	
Bromoform	217	<0.5 ug/L	MB	12/16/99	
Bromomethane	217	<0.5 ug/L	MB	12/16/99	
n-Butylbenzene	217	<0.5 ug/L	MB	12/16/99	
sec-Butylbenzene	217	<0.5 ug/L	MB	12/16/99	
tert-Butylbenzene	217	<0.5 ug/L	MB	12/16/99	
Carbon tetrachloride	217	<0.5 ug/L	MB	12/16/99	
Chlorobenzene	217	<0.5 ug/L	MB	12/16/99	
Chloroethane	217	<0.5 ug/L	MB	12/16/99	
Chloroform	217	<0.5 ug/L	MB	12/16/99	
Chloromethane	217	<0.5 ug/L	MB	12/16/99	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Dibromomethane	217	<0.5 ug/L	MB	12/16/99	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	12/16/99	
1,1-Dichloroethane	217	<0.5 ug/L	MB	12/16/99	
1,2-Dichloroethane	221	<0.5 ug/L	MB	12/16/99	
1,1-Dichloroethene	217	49.7 ug/L	MB	12/16/99	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	12/16/99	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	12/16/99	
1,2-Dichloropropane	217	<0.5 ug/L	MB	12/16/99	
1,3-Dichloropropane	217	<0.5 ug/L	MB	12/16/99	
2,2-Dichloropropane	217	<0.5 ug/L	MB	12/16/99	
1,1-Dichloropropene	217	<0.5 ug/L	MB	12/16/99	
Ethylbenzene	217	<0.5 ug/L	MB	12/16/99	
Hexachlorobutadiene	217	<0.5 ug/L	MB	12/16/99	
Isopropylbenzene	217	<0.5 ug/L	MB	12/16/99	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Naphthalene	217	<0.5 ug/L	MB	12/16/99	
n-Propylbenzene	217	<0.5 ug/L	MB	12/16/99	
Styrene	217	<0.5 ug/L	MB	12/16/99	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	12/16/99	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	12/16/99	
Tetrachloroethene	217	<0.5 ug/L	MB	12/16/99	
Toluene	217	<0.5 ug/L	MB	12/16/99	

---- Continued on Next Page ----

TRITEST, INC.

Laboratory Report

Alcatel Network Systems, Inc. Report Date 12/22/9

Project No. 01 Work Order No. 9911-0090

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qua
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	12/16/99	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	12/16/99	
1,1,1-Trichloroethane	217	31.5 ug/L	MB	12/16/99	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	12/16/99	
Trichloroethene	217	2.49 ug/L	MB	12/16/99	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	12/16/99	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	12/16/99	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	12/16/99	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	12/16/99	
Vinyl chloride	221	<0.5 ug/L	MB	12/16/99	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	12/16/99	
Total Suspended Solids	EPA 160.2	3.0 mg/L	TP	12/16/99	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	12/20/99	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	12/20/99	
Iron by ICP/MS-Waters	EPA 200.8	0.397 mg/L	SRB	12/20/99	
Manganese by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	12/20/99	
Metals Prep	EPA 3050	done	CLP	12/16/99	

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 9911-00903

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran V. Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G		12/14/99 10:40	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-FEW, AA-MNW, AA-METLX	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran V. Kabbendjian	[signature]	12/14/99	10:50
[signature]	[signature]	12/14/99	1355
[signature]	David [signature]	12/14/99	1435

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☒ Temp: 2.0 °C
Res. Chlorine ☒ Absent ☐ Present ☐ n/a
Acid preserv. <2? ☒ Yes ☐ No ☐ n/a
Base preserv. >12? ☐ Yes ☐ No ☒ n/a

12/14

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. #9911-00903

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
*Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G		10:30 12/14/99	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-FEW, AA-MNW, AA-METLX Do only Copper & Lead metals	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran V. Kabbendjian	[signature]	12/14/99	10:50
[signature]	[signature]	12/14/99	1355
[signature]	David [signature]	12/14/99	1435

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☒ Temp: 2.0 °C
Res. Chlorine ☒ Absent ☐ Present ☐ n/a
Acid preserv. <2? ☒ Yes ☐ No ☐ n/a
Base preserv. >12? ☐ Yes ☐ No ☒ n/a

12/14

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

February 8, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: January 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on February 1, 2000 from the Influent and Effluent sampling ports of the system. The sampling event planned for January 25 had to be postponed until 2/1/2000 due to the 20-inch snow that shut down Alcatel and the laboratory.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit
NC0086126.

In addition, please find the enclosed table that summarizes amended lab results for eight of the last 13 months and an explanation letter from Tritest, our laboratory. Alcatel asked Tritest to review the results after detecting some inconsistencies. Please note that all the amended results apply to the Influent samples. The groundwater remediation system Effluent results are not changed and remain below the detection limit (BDL).

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Mr. Mike Haseltine, Triangle Environmental, Inc.

[redacted] BMIT[redacted]M O[redacted]LLO[redacted]APE[redacted]LY [redacted]

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

ACILITY INFORMATION *Please Print Clearly or Type*

cility Name: ALCATEL NETWORK SYSTEMS
rmit Name (if different):
cility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
ntact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
ell Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

ell Identification Number (from Permit):
ell Depth: ft. Well Diameter: in.
reened Interval: ft. to ft.
pth to Water Level: ft. below measuring point.
easuring Point is ft. above land surface.
allons of water pumped/bailed before sampling:
eld analysis: pH , Specific Conductance uMhos
Temp. °C, Odor Appearance

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ001221 UIC
NPDES

TYPE OF PERMITTED OPERATION BEING MONITORED
___ Lagoon ___ Remediation: Infiltration Gallery
___ Spray Field X Remediation: Injection Wells
___ Rotary Distributor ___ Land Application of Sludge
___ Other:

NOTE: **Values should reflect dissolved and colloidal concentrations.**

Date sample collected: 2/1/2000 Date sample analyzed: 2/1/2000
Laboratory Name: TRITEST
Certification No. WW # 067

RAMETERS (Samples for metals were collected unfiltered ✓ YES ___ NO and field acidified ✓ YES ___ NO)

OD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
oliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	<0.005 mg/l
oliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
te: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
ssolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
H (when analyzed)	units	Ba - Barium	mg/l		
OC	mg/l	Ca - Calcium	mg/l	TTO = <1.0 mg/l	
loride	mg/l	Cd - Cadmium	mg/l		
senic	mg/l	Chromium: Total	mg/l		
ease and Oils	mg/l	Cu - Copper	<0.010 mg/l		
enol	mg/l	Fe - Iron	<0.046 mg/l		
lfate	mg/l	Hg - Mercury	mg/l		
ecific Conductance	uMhos	K - Potassium	mg/l		
tal Ammonia	mg/l	Mg - Magnesium	mg/l		
N as N	mg/l	Mn - Manganese	<0.010 mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ___ (0)
VOC : method # = 6230-D
: method # =
: method # =

ertify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced sing approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information; cluding the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent), Name and Title - Please print or type

Dikran V. Kabbendjian Feb 8 2000

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

February 8, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: January 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

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Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit
NC0086126.

In addition, please find the enclosed table that summarizes amended lab results for eight of the last 13 months and an explanation letter from Tritest, our laboratory. Alcatel asked Tritest to review the results after detecting some inconsistencies. Please note that all the amended results apply to the Influent samples. The groundwater remediation system Effluent results are not changed and remain below the detection limit (BDL).

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Mr. Mike Haseltine, Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC 0086126 DISCHARGE NO. _____ MONTH Jan YEAR 2001
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-624
CERTIFIED LABORATORIES (1) TRITEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Dikran Kabbendjian

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 2/8/200
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☒ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspended Solids mg/l	01042 Copper mg/l	01045 Iron mg/l	01051 Lead mg/l	01055 Manganese mg/l						
	HRS	HRS	Y/N	MGD														
1			X					<1.0	<.010	.046	<.005	<.010						
2																		
3																		
4																		
5																		
6																		
8																		
9																		
11																		
12																		
15																		
16																		
18																		
19																		
21																		
22																		
24																		
25																		
27																		
28																		
30																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
(C) / Grab (G)																		
Monthly Limit				0.08				G	G	G	G	G						

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements — [X] Compliant

Note Sample was collected Feb 1, 2000 due to snow.

All monitoring data and sampling frequencies do NOT meet permit requirements — [ ] Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accorda with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significan penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V Kabbendjian 2/8/00
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 — 12/31/200
Permittee Address — Phone Number (919) 850-6248 — Permit Exp. Dat

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldeh
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 2/04/00
Date Received: 2/01/00

Work Order #: 0002-00019

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: GROUND WATER

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01	GROUND WATER-EFF GRAB	2/01/2000	8:30	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	2/01/00	
Benzene	217	<0.5 ug/L	MB	2/01/00	
Bromobenzene	217	<0.5 ug/L	MB	2/01/00	
Bromochloromethane	217	<0.5 ug/L	MB	2/01/00	
Bromodichloromethane	217	<0.5 ug/L	MB	2/01/00	
Bromoform	217	<0.5 ug/L	MB	2/01/00	
Bromomethane	217	<0.5 ug/L	MB	2/01/00	
n-Butylbenzene	217	<0.5 ug/L	MB	2/01/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	2/01/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	2/01/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	2/01/00	
Chlorobenzene	217	<0.5 ug/L	MB	2/01/00	
Chloroethane	217	<0.5 ug/L	MB	2/01/00	
Chloroform	217	<0.5 ug/L	MB	2/01/00	
Chloromethane	217	<0.5 ug/L	MB	2/01/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Dibromomethane	217	<0.5 ug/L	MB	2/01/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	2/01/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	2/01/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	2/01/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	2/01/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/01/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/01/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	2/01/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 2/04/0

Project No. 01 Work Order No. 0002-0001

No. Sample ID
01 GROUND WATER-EFF GRAB

Test Performed	Method	Results	Tech	Analyzed	Qua
1,3-Dichloropropane	217	<0.5 ug/L	MB	2/01/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	2/01/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	2/01/00	
Ethylbenzene	217	<0.5 ug/L	MB	2/01/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	2/01/00	
Isopropylbenzene	217	<0.5 ug/L	MB	2/01/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Naphthalene	217	<0.5 ug/L	MB	2/01/00	
n-Propylbenzene	217	<0.5 ug/L	MB	2/01/00	
Styrene	217	<0.5 ug/L	MB	2/01/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/01/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/01/00	
Tetrachloroethene	217	<0.5 ug/L	MB	2/01/00	
Toluene	217	<0.5 ug/L	MB	2/01/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	2/01/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	2/01/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	2/01/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	2/01/00	
Trichloroethene	217	<0.5 ug/L	MB	2/01/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	2/01/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	2/01/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	2/01/00	
Vinyl chloride	221	<0.5 ug/L	MB	2/01/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	2/03/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	2/02/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	2/02/00	
Iron by ICP/MS-Waters	EPA 200.8	0.046 mg/L	SRB	2/02/00	
Manganese by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	2/02/00	
Metals Prep	EPA 3050	done	CLP	2/01/00	

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Laboratory Report

Alcatel Network Systems, Inc. Report Date 2/04/0

Project No. 01 Work Order No. 0002-0001

o.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	GROUND WATER INF GRAB	2/01/2000	8:30	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	2/01/00	
Benzene	217	<0.5 ug/L	MB	2/01/00	
Bromobenzene	217	<0.5 ug/L	MB	2/01/00	
Bromochloromethane	217	<0.5 ug/L	MB	2/01/00	
Bromodichloromethane	217	<0.5 ug/L	MB	2/01/00	
Bromoform	217	<0.5 ug/L	MB	2/01/00	
Bromomethane	217	<0.5 ug/L	MB	2/01/00	
n-Butylbenzene	217	<0.5 ug/L	MB	2/01/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	2/01/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	2/01/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	2/01/00	
Chlorobenzene	217	<0.5 ug/L	MB	2/01/00	
Chloroethane	217	<0.5 ug/L	MB	2/01/00	
Chloroform	217	<0.5 ug/L	MB	2/01/00	
Chloromethane	217	<0.5 ug/L	MB	2/01/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Dibromomethane	217	<0.5 ug/L	MB	2/01/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	2/01/00	
1,1-Dichloroethane	217	1.46 ug/L	MB	2/01/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	2/01/00	
1,1-Dichloroethene	217	33.1 ug/L	MB	2/01/00	D8.
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/01/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/01/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	2/01/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	2/01/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	2/01/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	2/01/00	
Ethylbenzene	217	<0.5 ug/L	MB	2/01/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	2/01/00	
Isopropylbenzene	217	<0.5 ug/L	MB	2/01/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Naphthalene	217	<0.5 ug/L	MB	2/01/00	
n-Propylbenzene	217	<0.5 ug/L	MB	2/01/00	
Styrene	217	<0.5 ug/L	MB	2/01/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/01/00	

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Laboratory Report

Alcatel Network Systems, Inc. Report Date 2/04/(

Project No. 01 Work Order No. 0002-0001

No. Sample ID
02 GROUND WATER INF GRAB

Test Performed	Method	Results	Tech	Analyzed	Qua
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/01/00	
Tetrachloroethene	217	67.1 ug/L	MB	2/01/00	D8.
Toluene	217	<0.5 ug/L	MB	2/01/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	2/01/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	2/01/00	
1,1,1-Trichloroethane	217	33.4 ug/L	MB	2/01/00	D8.
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	2/01/00	
Trichloroethene	217	3.23 ug/L	MB	2/01/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	2/01/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	2/01/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	2/01/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	2/01/00	
Vinyl chloride	221	<0.5 ug/L	MB	2/01/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	2/01/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	2/03/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	2/02/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	2/02/00	
Iron by ICP/MS-Waters	EPA 200.8	0.113 mg/L	SRB	2/02/00	
Manganese by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	2/02/00	
Metals Prep	EPA 3050	done	CLP	2/01/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

Report certified by:

for Tritest, Inc.

[redacted] C.
39[redacted] Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. ~~# 9912-01072~~ 0002-00019-01

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Neal Blackmon

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G	2/1/00 0800	2/1/00 08:30	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-FEW, AA-MNW, AA-METLX	

Relinquished by (signature)	Received by (signature)	Date	Time
Neal Blackmon	[illegible]	2/1/00	8:30 AM
[illegible]	[illegible]	2-1-00	1340
[illegible]	[illegible]	02/01/00	1400
[illegible]	[illegible]	2/1	[illegible]

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 1.5 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

Tritest, Inc.

Phone (919) 834-4984
Fax (919) 834-6497

February 1, 2000

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Road
Raleigh, NC 27609

Re: Fluctuations in Reported Ground Water Monitoring for Alcatel Network Systems

Dear Mr. Kabbendjian:

After receiving your fax, I pulled all raw data for your monthly samples from December 1998 through December 1999 for a complete review.

My findings were as follows:

→ 1,1-Dichloroethane and 1,1-Dichloroethene are labeled correctly on the analytical printout.

→ 1,1,1-Trichloroethane was present in the influent samples, but was not reported in December 1998 and November 1999.

→ 1,1-Dichloroethane and 1,1-Dichloroethene were mislabeled in our data entry system.

After thoroughly reviewing how your samples were analyzed and processed through our laboratory system I find that the mistakes were being made in the data entry. This was due in part to new technicians in both data entry and volatile analysis. Also, we were in the process of updating our computer systems for Y2K compliance. Our old analytical software abbreviated the names of 1,1-Dichloroethane and 1,1-Dichloroethene, which was the source of the values being entered incorrectly.

Additionally, all the analyst and technicians involved in this mistake have had supplemental training to insure this will no longer be a problem.

I regret any problem or confusion this has caused. If you need any further information or have any questions, feel free to call me at (919) 834-4984.

Sincerely,

Steve Branch
Laboratory Manager

3909 Beryl Road, Raleigh, NC 27607 ✦ **P.O. Box 33190, Raleigh, NC 27636**

Original and Amended (amended results in Blue) Laboratory results for System Influent Water Samples.
Amended results were provided to Alcatel by Tritest, Inc. on February 3, 2000, following a request by Alcatel to review results for inconsistencies.

	12/20/98	12/20/98A	1/15/99	1/15/99A	2/23/99	2/23/99A	3/18/99	3/18/99A	5/20/99	5/20/99A	8/26/99	8/26/99A	11/24/99	11/24/99A	12/14/99	12/14/99A
1,1 DCE	43.4	28.5	58.2	63.3	57.9	71.4	BDL	60.4	2.1	40.2	1.69	51.7	30.6	30.6	49.7	49.7
Tetrachloroethene	85.4	80.3	82.3	70.1	84.3	92.5	66.9	66.9	67.7	67.7	69.1	69.1	54.2	54.2	BDL	64.7
1,1,1 Trichloroethane	BDL	73.1	51	51.1	66.4	66.3	47.9	47.9	43.6	43.6	41.7	41.7	BDL	28.5	31.5	31.5
Trichloroethene	4.51	5.33	4.87	4.76	4.45	5.9	BDL	BDL	3.27	3.27	2.77	2.77	2.34	2.34	2.49	2.49
1,1-DCA	BDL	2.59	BDL	BDL	BDL	BDL	60.4	BDL	40.2	2.1	51.7	1.69	1.31	1.31	BDL	BDL
Chloroform	BDL	1.07	BDL	BDL	BDL	BDL	BDL	BDL	0.834	0.834	1.02	1.02	BDL	BDL	BDL	BDL
Total Organics	133.3	190.9	196.4	189.3	213.1	236.1	175.2	175.2	157.7	157.7	168.0	168.0	88.5	117.0	83.7	148.4
6230-D																

Of eight monthly results amended above, the Total Organics rose in four, remained the same in three and dropped in one.
Alcatel is in the process of evaluating other area laboratories. In the meantime, all work done by Tritest will be carefully scrutinized.

Note - Lab switched Inf + Eff. Samples

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

March 6, 2000

Central Files
Div. of Environmental Management
DENR
P. O. Box 29535
Raleigh, North Carolina 27626-0535

SUBJECT: February 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on February 24, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

March 6, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: February 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on February 24, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

BMI RM ELL APE NLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL NETWORK SYSTEMS
Permit Name (if different):
Facility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit):
Well Depth: ft. Well Diameter: in.
Screened Interval: ft. to ft.
Depth to Water Level: ft. below measuring point.
Measuring Point is ft. above land surface.
Gallons of water pumped/bailed before sampling:
Field analysis: pH , Specific Conductance uMhos
Temp. °C, Odor Appearance

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ0012221 UIC
NPDES

TYPE OF PERMITTED OPERATION BEING MONITORED
___ Lagoon ___ Remediation: Infiltration Gallery
___ Spray Field X Remediation: Injection Wells
___ Rotary Distributor ___ Land Application of Sludge
___ Other:

NOTE: **Values should reflect dissolved and colloidal concentrations.**

Date sample collected: Date sample analyzed:
Laboratory Name: TRITEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ___ NO and field acidified ✓ YES ___ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l	TTO <1.0	
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l	**ORGANICS:** (GC,GC/MS,HPLC)	
Sulfate	mg/l	Hg - Mercury	mg/l	**(Specify test and method #. Attach lab report.)**	
Specific Conductance	uMhos	K - Potassium	mg/l	**Report Attached?** Yes ✓ (1) No ___ (0)	
Total Ammonia	mg/l	Mg - Magnesium	mg/l	VOC : method # = 6230-D	
TKN as N	mg/l	Mn - Manganese	mg/l	: method # =	
				: method # =	

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

Dikran V. Kabbendjian 3/6/00

GW-59 Rev. 4/98

EFFLUENT

NPDES PERMIT NO. NC00 86126 DISCHARGE NO. _____ MONTH _____ YEAR _____
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-62
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES DIKRAN KABBENDJI

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 3/6/00
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☐ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total suspended solids mg/l	01042 Copper mg/l	01051 Lead mg/l								
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
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22																		
23																		
24			X					<1.0	<.010	<.005								
25																		
26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.06														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit				0.08														

DEM Form MR-1.1

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accord with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significa penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran Kabbendjian
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/200
Permittee Address Phone Number Permit Exp. Da

(919) 850-6248

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldel
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b (2) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 3/01/00
Date Received: 2/24/00

Work Order #: 0001-01132

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
001	Ground Water-Effluent	2/24/2000	10:30	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	2/24/00	
Benzene	217	<0.5 ug/L	MB	2/24/00	
Bromobenzene	217	<0.5 ug/L	MB	2/24/00	
Bromochloromethane	217	<0.5 ug/L	MB	2/24/00	
Bromodichloromethane	217	<0.5 ug/L	MB	2/24/00	
Bromoform	217	<0.5 ug/L	MB	2/24/00	
Bromomethane	217	<0.5 ug/L	MB	2/24/00	
n-Butylbenzene	217	<0.5 ug/L	MB	2/24/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	2/24/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	2/24/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	2/24/00	
Chlorobenzene	217	<0.5 ug/L	MB	2/24/00	
Chloroethane	217	<0.5 ug/L	MB	2/24/00	
Chloroform	217	<0.5 ug/L	MB	2/24/00	
Chloromethane	217	<0.5 ug/L	MB	2/24/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Dibromomethane	217	<0.5 ug/L	MB	2/24/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	2/24/00	
1,1-Dichloroethane	217	1.64 ug/L	MB	2/24/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	2/24/00	
1,1-Dichloroethene	217	42.3 ug/L	MB	2/24/00	D8.8
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/24/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/24/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	2/24/00	

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Laboratory Report

Alcatel Network Systems, Inc. Report Date 3/01/0

Project No. 01 Work Order No. 0001-0113

No. Sample ID
01 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,3-Dichloropropane	217	<0.5 ug/L	MB	2/24/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	2/24/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	2/24/00	
Ethylbenzene	217	<0.5 ug/L	MB	2/24/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	2/24/00	
Isopropylbenzene	217	<0.5 ug/L	MB	2/24/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Naphthalene	217	<0.5 ug/L	MB	2/24/00	
n-Propylbenzene	217	<0.5 ug/L	MB	2/24/00	
Styrene	217	<0.5 ug/L	MB	2/24/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/24/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/24/00	
Tetrachloroethene	217	<0.5 ug/L	MB	2/24/00	
Toluene	217	<0.5 ug/L	MB	2/24/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	2/24/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	2/24/00	
1,1,1-Trichloroethane	217	41.6 ug/L	MB	2/24/00	D8.8
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	2/24/00	
Trichloroethene	217	2.45 ug/L	MB	2/24/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	2/24/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	2/24/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	2/24/00	
Vinyl chloride	221	<0.5 ug/L	MB	2/24/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	2/29/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	2/25/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	2/25/00	
Metals Prep	EPA 3050	done	CLP	2/24/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

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Laboratory Report

Alcatel Network Systems, Inc. Report Date 3/01/00

Project No. 01 Work Order No. 0001-01132

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
02	Ground Water- Influent	2/24/2000	10:45	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	2/24/00	
Benzene	217	<0.5 ug/L	MB	2/24/00	
Bromobenzene	217	<0.5 ug/L	MB	2/24/00	
Bromochloromethane	217	<0.5 ug/L	MB	2/24/00	
Bromodichloromethane	217	<0.5 ug/L	MB	2/24/00	
Bromoform	217	<0.5 ug/L	MB	2/24/00	
Bromomethane	217	<0.5 ug/L	MB	2/24/00	
n-Butylbenzene	217	<0.5 ug/L	MB	2/24/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	2/24/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	2/24/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	2/24/00	
Chlorobenzene	217	<0.5 ug/L	MB	2/24/00	
Chloroethane	217	<0.5 ug/L	MB	2/24/00	
Chloroform	217	<0.5 ug/L	MB	2/24/00	
Chloromethane	217	<0.5 ug/L	MB	2/24/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Dibromomethane	217	<0.5 ug/L	MB	2/24/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	2/24/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	2/24/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	2/24/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	2/24/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/24/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	2/24/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	2/24/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	2/24/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	2/24/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	2/24/00	
Ethylbenzene	217	<0.5 ug/L	MB	2/24/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	2/24/00	
Isopropylbenzene	217	<0.5 ug/L	MB	2/24/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Naphthalene	217	<0.5 ug/L	MB	2/24/00	
n-Propylbenzene	217	<0.5 ug/L	MB	2/24/00	
Styrene	217	<0.5 ug/L	MB	2/24/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/24/00	

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Laboratory Report

Alcatel Network Systems, Inc. Report Date 3/01/0

Project No. 01 Work Order No. 0001-0113:

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qua
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	2/24/00	
Tetrachloroethene	217	<0.5 ug/L	MB	2/24/00	
Toluene	217	<0.5 ug/L	MB	2/24/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	2/24/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	2/24/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	2/24/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	2/24/00	
Trichloroethene	217	<0.5 ug/L	MB	2/24/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	2/24/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	2/24/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	2/24/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	2/24/00	
Vinyl chloride	221	<0.5 ug/L	MB	2/24/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	2/24/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	2/29/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	2/25/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	2/25/00	
Metals Prep	EPA 3050	done	CLP	2/24/00	

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0001-01132

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D V Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent			2/24/00 1045	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-~~PEW~~, AA-~~MNW~~, AA-METLX Do not analyze for Iron & Manganese	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran V. Kabbendjian	1240	2/24/00	11:10
S/O Campbell	S/O Campbell	2/24/00	12:40
		2-24	1300

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☒ Temp: 4.5 °C
Res. Chlorine ☐ Absent ☐ Present ☐ n/a
Acid preserv. <2? ☐ Yes ☐ No ☐ n/a
Base preserv. >12? ☐ Yes ☐ No ☐ n/a

3/24

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0001-01132

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent			2/24/00 10:30	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, ~~AA-FEW~~, ~~AA-MNW~~, AA-METLX Do not analyze for IRON & Manganese	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran Kabbendjian	1240	2/24/00	11:10
		2/24/00	12:40
		2-24	1300

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☒ Temp: 4.5 °C
Res. Chlorine ☐ Absent ☐ Present ☐ n/a
Acid preserv. <2? ☑ Yes ☐ No ☐ n/a
Base preserv. >12? ☐ Yes ☐ No ☑ n/a

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

April 5, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: March 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on March 22, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

April 5, 2000

Central Files
Div. of Environmental Management
DENR
P. O. Box 29535
Raleigh, North Carolina 27626-0535

SUBJECT: March 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on March 22, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL NETWORK SYSTEMS
Permit Name (if different):
Facility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit):
Well Depth: ft. Well Diameter: in.
Screened Interval: ft. to ft.
Depth to Water Level: ft. below measuring point.
Measuring Point is ft. above land surface.
Gallons of water pumped/bailed before sampling:
Field analysis: pH , Specific Conductance uMhos
Temp. °C, Odor Appearance

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ001221 UIC
NPDES

TYPE OF PERMITTED OPERATION BEING MONITORED
___ Lagoon ___ Remediation: Infiltration Gallery
___ Spray Field X Remediation: Injection Wells
___ Rotary Distributor ___ Land Application of Sludge
___ Other:

NOTE: Values should reflect dissolved and colloidal concentrations.

Date sample collected: 3/22/2000 Date sample analyzed: 3/24/2000
Laboratory Name: TRITEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ___ NO and field acidified ✓ YES ___ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l	TTS <1.0 mg/L	
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ___ (0)
VOC : method # = 6230-D
: method # =
: method # =

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

Dikran V. Kabbendjian 4/5/2000

GW-59 Rev. 4/98

EFFLUENT

NPDES PERMIT NO. NC0086126 DISCHARGE NO. _____ MONTH March YEAR 2001
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-62
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES D V Kabbendjian

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 4/5/200
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☒ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspendy Solids mg/l	01042 Copper mg/l	01051 Lead mg/l								
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
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21																		
22			Y					<1.0	<.010	<.005								
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.050														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit				0.08														

DEM Form MR-1.1

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, e and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordan with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V. Kabbendjian 4/5/00
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/2006
Permittee Address Phone Number (919) 850-6248 Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldeh
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 3/30/00
Date Received: 3/22/00

Work Order #: 0002-00708

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
001	Ground Water-Eff. GRAB	3/22/2000	8:20	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	3/24/00	
Benzene	217	<0.5 ug/L	MB	3/24/00	
Bromobenzene	217	<0.5 ug/L	MB	3/24/00	
Bromochloromethane	217	<0.5 ug/L	MB	3/24/00	
Bromodichloromethane	217	<0.5 ug/L	MB	3/24/00	
Bromoform	217	<0.5 ug/L	MB	3/24/00	
Bromomethane	217	<0.5 ug/L	MB	3/24/00	
n-Butylbenzene	217	<0.5 ug/L	MB	3/24/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	3/24/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	3/24/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	3/24/00	
Chlorobenzene	217	<0.5 ug/L	MB	3/24/00	
Chloroethane	217	<0.5 ug/L	MB	3/24/00	
Chloroform	217	<0.5 ug/L	MB	3/24/00	
Chloromethane	217	<0.5 ug/L	MB	3/24/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Dibromomethane	217	<0.5 ug/L	MB	3/24/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	3/24/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	3/24/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	3/24/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	3/24/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	3/24/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	3/24/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	3/24/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 3/30/0

Project No. 01 Work Order No. 0002-0070

No. Sample ID
001 Ground Water-Eff. GRAB

Test Performed	Method	Results	Tech	Analyzed	Qua
1,3-Dichloropropane	217	<0.5 ug/L	MB	3/24/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	3/24/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	3/24/00	
Ethylbenzene	217	<0.5 ug/L	MB	3/24/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	3/24/00	
Isopropylbenzene	217	<0.5 ug/L	MB	3/24/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Naphthalene	217	<0.5 ug/L	MB	3/24/00	
n-Propylbenzene	217	<0.5 ug/L	MB	3/24/00	
Styrene	217	<0.5 ug/L	MB	3/24/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	3/24/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	3/24/00	
Tetrachloroethene	217	<0.5 ug/L	MB	3/24/00	
Toluene	217	<0.5 ug/L	MB	3/24/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	3/24/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	3/24/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	3/24/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	3/24/00	
Trichloroethene	217	<0.5 ug/L	MB	3/24/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	3/24/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	3/24/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	3/24/00	
Vinyl chloride	221	<0.5 ug/L	MB	3/24/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	3/23/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	3/24/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	3/24/00	
Metals Prep	EPA 3050	done	CLP	3/23/00	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Inf. GRAB	3/22/2000	8:30	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	3/24/00	
Benzene	217	<0.5 ug/L	MB	3/24/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 3/30/0

Project No. 01 Work Order No. 0002-0070

N. Sample ID
0 2 Ground Water- Inf. GRAB

Test Performed	Method	Results	Tech	Analyzed	Qual
Bromobenzene	217	<0.5 ug/L	MB	3/24/00	
Bromochloromethane	217	<0.5 ug/L	MB	3/24/00	
Bromodichloromethane	217	<0.5 ug/L	MB	3/24/00	
Bromoform	217	<0.5 ug/L	MB	3/24/00	
Bromomethane	217	<0.5 ug/L	MB	3/24/00	
n-Butylbenzene	217	<0.5 ug/L	MB	3/24/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	3/24/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	3/24/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	3/24/00	
Chlorobenzene	217	<0.5 ug/L	MB	3/24/00	
Chloroethane	217	<0.5 ug/L	MB	3/24/00	
Chloroform	217	<0.5 ug/L	MB	3/24/00	
Chloromethane	217	<0.5 ug/L	MB	3/24/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Dibromomethane	217	<0.5 ug/L	MB	3/24/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	3/24/00	
1,1-Dichloroethane	217	1.55 ug/L	MB	3/24/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	3/24/00	
1,1-Dichloroethene	217	29.92 ug/L	MB	3/24/00	D8.8
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	3/24/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	3/24/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	3/24/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	3/24/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	3/24/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	3/24/00	
Ethylbenzene	217	<0.5 ug/L	MB	3/24/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	3/24/00	
Isopropylbenzene	217	<0.5 ug/L	MB	3/24/00	–
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Naphthalene	217	<0.5 ug/L	MB	3/24/00	
n-Propylbenzene	217	<0.5 ug/L	MB	3/24/00	
Styrene	217	<0.5 ug/L	MB	3/24/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	3/24/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	3/24/00	
Tetrachloroethene	217	60.21 ug/L	MB	3/24/00	D8.8
Toluene	217	<0.5 ug/L	MB	3/24/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 3/30/0

Project No. 01 Work Order No. 0002-0070

N . Sample ID
0 2 Ground Water- Inf. GRAB

Test Performed	Method	Results	Tech	Analyzed	Qua
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	3/24/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	3/24/00	
1,1,1-Trichloroethane	217	35.15 ug/L	MB	3/24/00	D8.
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	3/24/00	
Trichloroethene	217	2.42 ug/L	MB	3/24/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	3/24/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	3/24/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	3/24/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	3/24/00	
Vinyl chloride	221	<0.5 ug/L	MB	3/24/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	3/24/00	
Total Suspended Solids	EPA 160.2	1.6 mg/L	TP	3/23/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	3/24/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	3/24/00	
Metals Prep	EPA 3050	done	CLP	3/23/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0002-00708

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran V. Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☑ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G	3/22 8:20		GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-~~FEW~~, AA-~~MNW~~, AA-METLX Do not analyze for Fe and MN	

Relinquished by (signature)	Received by (signature)	Date	Time
D Kabbendjian	[illegible]	3/22	8:45
[illegible]	[illegible]	032200	1315
[illegible]	[illegible]	032200	1345

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 3.5 °C
Res. Chlorine ☐Absent ☐Present ☑n/a
Acid preserv. <2? ☑Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☑n/a

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0002-00708

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G	3/22 8:30		GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, ~~AA-FEW~~, ~~AA-MNW~~, AA-METLX Do not run Iron & Manganese	

Relinquished by (signature)	Received by (signature)	Date	Time
D Kabbendjian	[illegible]	3/22	8:45
[illegible]	[illegible]	032200	1315
[illegible]	[illegible]	032200	1345

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 3.5 °C
Res. Chlorine ☐Absent ☐Present ☑n/a
Acid preserv. <2? ☑Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☑n/a

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

May 1, 2000

Central Files
Div. of Environmental Management
DENR
P. O. Box 29535
Raleigh, North Carolina 27626-0535

SUBJECT: April 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on April 14, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,
Dikran V. Kabbendjian
Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

UBM DRM YEL PAP ONL

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL NETWORK SYSTEMS
Permit Name (if different):
Facility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit):
Well Depth: ft. Well Diameter: in.
Screened Interval: ft. to ft.
Depth to Water Level: ft. below measuring point.
Measuring Point is ft. above land surface.
Gallons of water pumped/bailed before sampling:
Field analysis: pH , Specific Conductance uMhos
Temp. °C, Odor Appearance

For Groundwater Treatment Systems Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ001221 UIC
NPDES

TYPE OF PERMITTED OPERATION BEING MONITORED
___ Lagoon ___ Remediation: Infiltration Gallery
___ Spray Field X Remediation: Injection Wells
___ Rotary Distributor ___ Land Application of Sludge
___ Other:

NOTE: **Values should reflect dissolved and colloidal concentrations.**

Date sample collected: 4/14/2000 Date sample analyzed: 4/18/2000
Laboratory Name: TRITEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ___ NO and field acidified ✓ YES ___ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l	Total Suspended Solids 1.4 mg/l	
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ___ (0)
VOC : method # = 6230-D
: method # =
: method # =

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent) Name and Title - Please print or type
Dikran V. Kabbendjian 5/1/2000
Signature of Permittee (or Authorized Agent)

GW-59 Rev. 4/98

EFFLUENT

NPDES PERMIT NO. NC00 86126 DISCHARGE NO. ____ MONTH April YEAR 200
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-62
CERTIFIED LABORATORIES (1) TRI TEST (2) ____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES S. V. KABBENDJIAN

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 5.1.200
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☒ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspended Solids mg/l	01042 Copper mg/l	01051 Lead mg/l								
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14			✓					1.4	<0.010	<0.005								
15																		
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26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit																		

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, et and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordanc with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V. Kabbendjian 5.1.2000
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/2006
Permittee Address Phone Number (919) 850-6248 Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldehy
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 4/24/00
Date Received: 4/14/00

Work Order #: 0003-01179

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01	GW-Effluent COMP	4/14/2000	8:00	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	4/18/00	
Benzene	217	<0.5 ug/L	MB	4/18/00	
Bromobenzene	217	<0.5 ug/L	MB	4/18/00	
Bromochloromethane	217	<0.5 ug/L	MB	4/18/00	
Bromodichloromethane	217	<0.5 ug/L	MB	4/18/00	
Bromoform	217	<0.5 ug/L	MB	4/18/00	
Bromomethane	217	<0.5 ug/L	MB	4/18/00	
n-Butylbenzene	217	<0.5 ug/L	MB	4/18/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	4/18/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	4/18/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	4/18/00	
Chlorobenzene	217	<0.5 ug/L	MB	4/18/00	
Chloroethane	217	<0.5 ug/L	MB	4/18/00	
Chloroform	217	<0.5 ug/L	MB	4/18/00	
Chloromethane	217	<0.5 ug/L	MB	4/18/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Dibromomethane	217	<0.5 ug/L	MB	4/18/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	4/18/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	4/18/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	4/18/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	4/18/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	4/18/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	4/18/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	4/18/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 4/24/

Project No. 01 Work Order No. 0003-011

No. Sample ID
001 GW-Effluent COMP

Test Performed	Method	Results	Tech	Analyzed	Qu
1,3-Dichloropropane	217	<0.5 ug/L	MB	4/18/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	4/18/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	4/18/00	
Ethylbenzene	217	<0.5 ug/L	MB	4/18/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	4/18/00	
Isopropylbenzene	217	<0.5 ug/L	MB	4/18/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Naphthalene	217	<0.5 ug/L	MB	4/18/00	
n-Propylbenzene	217	<0.5 ug/L	MB	4/18/00	
Styrene	217	<0.5 ug/L	MB	4/18/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	4/18/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	4/18/00	
Tetrachloroethene	217	<0.5 ug/L	MB	4/18/00	
Toluene	217	<0.5 ug/L	MB	4/18/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	4/18/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	4/18/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	4/18/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	4/18/00	
Trichloroethene	217	<0.5 ug/L	MB	4/18/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	4/18/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	4/18/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	4/18/00	
Vinyl chloride	221	<0.5 ug/L	MB	4/18/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Total Suspended Solids	EPA 160.2	1.4 mg/L	TP	4/18/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	4/19/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	4/19/00	
Metals Prep	EPA 3050	done	CLP	4/18/00	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	GW-Influent COMP	4/14/2000	8:15	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qu
VOCs in GW	SM 6230D		MB	4/18/00	
Benzene	217	<0.5 ug/L	MB	4/18/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 4/24/

Project No. 01 Work Order No. 0003-011

No. Sample ID
002 GW-Influent COMP

Test Performed	Method	Results	Tech	Analyzed	Qu
Bromobenzene	217	<0.5 ug/L	MB	4/18/00	
Bromochloromethane	217	<0.5 ug/L	MB	4/18/00	
Bromodichloromethane	217	<0.5 ug/L	MB	4/18/00	
Bromoform	217	<0.5 ug/L	MB	4/18/00	
Bromomethane	217	<0.5 ug/L	MB	4/18/00	
n-Butylbenzene	217	<0.5 ug/L	MB	4/18/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	4/18/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	4/18/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	4/18/00	
Chlorobenzene	217	<0.5 ug/L	MB	4/18/00	
Chloroethane	217	<0.5 ug/L	MB	4/18/00	
Chloroform	217	0.756 ug/L	MB	4/18/00	
Chloromethane	217	<0.5 ug/L	MB	4/18/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Dibromomethane	217	<0.5 ug/L	MB	4/18/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	4/18/00	
1,1-Dichloroethane	217	1.89 ug/L	MB	4/18/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	4/18/00	
1,1-Dichloroethene	217	30.57 ug/L	MB	4/18/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	4/18/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	4/18/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	4/18/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	4/18/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	4/18/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	4/18/00	
Ethylbenzene	217	<0.5 ug/L	MB	4/18/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	4/18/00	
Isopropylbenzene	217	<0.5 ug/L	MB	4/18/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Naphthalene	217	<0.5 ug/L	MB	4/18/00	
n-Propylbenzene	217	<0.5 ug/L	MB	4/18/00	
Styrene	217	<0.5 ug/L	MB	4/18/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	4/18/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	4/18/00	
Tetrachloroethene	217	68.76 ug/L	MB	4/18/00	
Toluene	217	<0.5 ug/L	MB	4/18/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 4/24/0

Project No. 01 Work Order No. 0003-0117

No. Sample ID
02 GW-Influent COMP

Test Performed	Method	Results	Tech	Analyzed	Qua
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	4/18/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	4/18/00	
1,1,1-Trichloroethane	217	43.22 ug/L	MB	4/18/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	4/18/00	
Trichloroethene	217	2.43 ug/L	MB	4/18/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	4/18/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	4/18/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	4/18/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	4/18/00	
Vinyl chloride	221	<0.5 ug/L	MB	4/18/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	4/18/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	4/18/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	4/19/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	4/19/00	
Metals Prep	EPA 3050	done	CLP	4/18/00	

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0003-01179

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D V Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	C		4-14-00 815	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, ~~AA-FEW~~, ~~AA-MNW~~, AA-METLX Copper + Lead	

Relinquished by (signature)	Received by (signature)	Date	Time
D V Kabbendjian	[illegible]	4-14-00	845
[illegible]	[illegible]	4-14-00	0950
[illegible]		4-14-00	1005

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 4.0 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

4/14

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

June 14, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: May 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on May 24, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION

Please Print Clearly or Type

Facility Name: ALCATEL NETWORK SYSTEMS
Permit Name (if different):
Facility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: 919 850 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

PERMIT #:
Non-Discharge WQ001221 EXPIRATION DATE: 8/31/2001
UIC
NPDES

TYPE OF PERMITTED OPERATION BEING MONITORED

- ____ Lagoon
- ____ Spray Field
- ____ Rotary Distributor
- ____ Other:
- ____ Remediation: Infiltration Gallery
- X Remediation: Injection Wells
- ____ Land Application of Sludge

Well Identification Number (from Permit):
Well Depth: ____ ft. Well Diameter: ____ in.
Screened Interval: ____ ft. to ____ ft.
Depth to Water Level: ____ ft. below measuring point.
Measuring Point is ____ ft. above land surface.
Gallons of water pumped/bailed before sampling:
Field analysis: pH ____, Specific Conductance ____ uMhos
Temp. ____ °C, Odor ____ Appearance ____

For Groundwater Treatment Systems
Check One:
- ☐ Influent (98)
- ☒ Effluent (99)

NOTE: **Values should reflect dissolved and colloidal concentrations.**

Date sample collected: 5-24-00 Date sample analyzed: 6/5/00
Laboratory Name: TRITEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ____ NO and field acidified ✓ YES ____ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l	Total Suspended Solids <1.0	
Chloride	mg/l	Cd - Cadmium	mg/l		
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ____ (0)
VOC ____ : method # = 6230-D
____ : method # =
____ : method # =

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN - Mgr. ENV. Health + Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

Dikran V. Kabbendjian 6/14/00
Signature of Permittee (or Authorized Agent) (Date)

GW-59 Rev. 4/98

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

June 14, 2000

Central Files
Div. of Environmental Management
DENR
P. O. Box 29535
Raleigh, North Carolina 27626-0535

SUBJECT: May 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on May 24, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC00 86126 DISCHARGE NO. _____ MONTH May YEAR 2001
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-62
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES D.V. KABBENDJIAN

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V Kabbendjian 6/14/00
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☐ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspendy Solids mg/l	01042 Copper mg/l	01051 Lead mg/l								
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
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23																		
24			✓					<1.0	<.010	<.005								
25																		
26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit																		

DEM Form MR-1.1
(Revised 12/91)

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accorda with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significan penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran Kabbendjian 6/14/00
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/200
Permittee Address (919) 850-6248 Phone Number Permit Exp. Dat

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formalde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 ((2) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 6/08/00
Date Received: 5/24/00

Work Order #: 0004-01442

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01	Ground Water-Effluent	5/24/2000	9:30	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qu
VOCs in GW	SM 6230D		MB	6/05/00	
Benzene	217	<0.5 ug/L	MB	6/05/00	
Bromobenzene	217	<0.5 ug/L	MB	6/05/00	
Bromochloromethane	217	<0.5 ug/L	MB	6/05/00	
Bromodichloromethane	217	<0.5 ug/L	MB	6/05/00	
Bromoform	217	<0.5 ug/L	MB	6/05/00	
Bromomethane	217	<0.5 ug/L	MB	6/05/00	
n-Butylbenzene	217	<0.5 ug/L	MB	6/05/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	6/05/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	6/05/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	6/05/00	
Chlorobenzene	217	<0.5 ug/L	MB	6/05/00	
Chloroethane	217	<0.5 ug/L	MB	6/05/00	
Chloroform	217	<0.5 ug/L	MB	6/05/00	
Chloromethane	217	<0.5 ug/L	MB	6/05/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Dibromomethane	217	<0.5 ug/L	MB	6/05/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	6/05/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	6/05/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	6/05/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	6/05/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/05/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/05/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	6/05/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 6/08/

Project No. 01 Work Order No. 0004-014

No. Sample ID
01 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qu
1,3-Dichloropropane	217	<0.5 ug/L	MB	6/05/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	6/05/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	6/05/00	
Ethylbenzene	217	<0.5 ug/L	MB	6/05/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	6/05/00	
Isopropylbenzene	217	<0.5 ug/L	MB	6/05/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Naphthalene	217	<0.5 ug/L	MB	6/05/00	
n-Propylbenzene	217	<0.5 ug/L	MB	6/05/00	
Styrene	217	<0.5 ug/L	MB	6/05/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/05/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/05/00	
Tetrachloroethene	217	<0.5 ug/L	MB	6/05/00	
Toluene	217	<0.5 ug/L	MB	6/05/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	6/05/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	6/05/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	6/05/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	6/05/00	
Trichloroethene	217	<0.5 ug/L	MB	6/05/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	6/05/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	6/05/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	6/05/00	
Vinyl chloride	221	<0.5 ug/L	MB	6/05/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	5/25/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	5/26/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	5/26/00	
Metals Prep	EPA 3050	done	CLP	5/25/00	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	5/24/2000	9:40	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	6/05/00	
Benzene	217	<0.5 ug/L	MB	6/05/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 6/08/

Project No. 01 Work Order No. 0004-014

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qu
Bromobenzene	217	<0.5 ug/L	MB	6/05/00	
Bromochloromethane	217	<0.5 ug/L	MB	6/05/00	
Bromodichloromethane	217	<0.5 ug/L	MB	6/05/00	
Bromoform	217	<0.5 ug/L	MB	6/05/00	
Bromomethane	217	<0.5 ug/L	MB	6/05/00	
n-Butylbenzene	217	<0.5 ug/L	MB	6/05/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	6/05/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	6/05/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	6/05/00	
Chlorobenzene	217	<0.5 ug/L	MB	6/05/00	
Chloroethane	217	<0.5 ug/L	MB	6/05/00	
Chloroform	217	0.688 ug/L	MB	6/05/00	
Chloromethane	217	<0.5 ug/L	MB	6/05/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Dibromomethane	217	<0.5 ug/L	MB	6/05/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	6/05/00	
1,1-Dichloroethane	217	0.891 ug/L	MB	6/05/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	6/05/00	
1,1-Dichloroethene	217	8.90 ug/L	MB	6/05/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/05/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/05/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	6/05/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	6/05/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	6/05/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	6/05/00	
Ethylbenzene	217	<0.5 ug/L	MB	6/05/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	6/05/00	
Isopropylbenzene	217	<0.5 ug/L	MB	6/05/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Naphthalene	217	<0.5 ug/L	MB	6/05/00	
n-Propylbenzene	217	<0.5 ug/L	MB	6/05/00	
Styrene	217	<0.5 ug/L	MB	6/05/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/05/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/05/00	
Tetrachloroethene	217	38.4 ug/L	MB	6/05/00	D8
Toluene	217	<0.5 ug/L	MB	6/05/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 6/08/

Project No. 01 Work Order No. 0004-014

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qu
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	6/05/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	6/05/00	
1,1,1-Trichloroethane	217	35.0 ug/L	MB	6/05/00	D8
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	6/05/00	
Trichloroethene	217	1.01 ug/L	MB	6/05/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	6/05/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	6/05/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	6/05/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	6/05/00	
Vinyl chloride	221	<0.5 ug/L	MB	6/05/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	6/05/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TP	5/25/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	5/26/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	5/26/00	
Metals Prep	EPA 3050	done	CLP	5/25/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCDW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0004-01442

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G		9:30 5/24/00	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, ~~AA-FEW~~, ~~AA-MNW~~, AA-METLX Do not run MN, ~~Cu~~ & FE	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran Kabbendjian	[illegible]	5/24	9:50
[illegible]	[illegible]	5/24/00	2:40
[illegible]	[illegible]	5/24/00	3:38

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 3.0 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0004-01442

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Dikran Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent			9:40 5/24/00	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-FEW, AA-MNW, AA-METLX Do not rem MN & FE	

Relinquished by (signature)	Received by (signature)	Date	Time
Dikran Kabbendjian	Oei Mang	5/24	9:50 / 2:45
Relinquished by (signature)	Received by (signature)	Date	Time
Oei Mang		5/24	2:40
Relinquished by (signature)	Received by (signature)	Date	Time
	Emerill	5/24/00	3:25

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 3.0 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

July 6, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: June 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on June 16, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL USA
Permit Name (if different): ALCATEL NETWORK SYSTEMS
Facility Address: 2912 WAKE FOREST RD.
(Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: (919) 850 - 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit): _____
Well Depth: _____ ft. Well Diameter: _____ in.
Screened Interval: _____ ft. to _____ ft.
Depth to Water Level: _____ ft. below measuring point.
Measuring Point is _____ ft. above land surface.
Gallons of water pumped/bailed before sampling: _____
Field analysis: pH _____, Specific Conductance _____ uMhos
Temp. _____ °C, Odor _____ Appearance _____

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #:
Non-Discharge WQ0012221 EXPIRATION DATE: 8/31/2001
UIC _____
NPDES _____

TYPE OF PERMITTED OPERATION BEING MONITORED
_____ Lagoon
_____ Spray Field
_____ Rotary Distributor
_____ Other: _____
_____ Remediation: Infiltration Gallery
X Remediation: Injection Wells
_____ Land Application of Sludge

NOTE: **Values should reflect dissolved and colloidal concentrations.**

Date sample collected: 6-16-00 Date sample analyzed: 6-21-00
Laboratory Name: TRI TEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ____ NO and field acidified ____ YES ____ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	→Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l	Total Suspended Solids <1.0	
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	→Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ____ (0)
VOC : method # = 6230-D
_____ : method # = _____
_____ : method # = _____

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN Mgr. ENV. Health & Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

July 6, 2000

Central Files
NC Division of Water Quality
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

SUBJECT: June 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on June 16, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC00 86126 DISCHARGE NO. _____ MONTH June YEAR 2001
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-62
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Dikran KABBENDJIA

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 7/6/00
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☒ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspended Solids mg/l	01042 Copper mg/l	01051 Lead mg/l	6230-D							
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16			✓					<1.0	<.010	<.005								
17																		
18																		
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22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit																		

Attached

DEM Form MR-1.1
(Revised 12/94)

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, etc., and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V Kabbendjian 7/6/00
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 — 12/31/2002
Permittee Address — Phone Number (919) 850-6248 — Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldehyde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 6/28/00
Date Received: 6/16/00

Work Order #: 0005-00990

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01	Ground Water-Effluent	6/16/2000	10:00	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	6/21/00	
Benzene	217	<0.5 ug/L	MB	6/21/00	
Bromobenzene	217	<0.5 ug/L	MB	6/21/00	
Bromochloromethane	217	<0.5 ug/L	MB	6/21/00	
Bromodichloromethane	217	<0.5 ug/L	MB	6/21/00	
Bromoform	217	<0.5 ug/L	MB	6/21/00	
Bromomethane	217	<0.5 ug/L	MB	6/21/00	
n-Butylbenzene	217	<0.5 ug/L	MB	6/21/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	6/21/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	6/21/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	6/21/00	
Chlorobenzene	217	<0.5 ug/L	MB	6/21/00	
Chloroethane	217	<0.5 ug/L	MB	6/21/00	
Chloroform	217	<0.5 ug/L	MB	6/21/00	
Chloromethane	217	<0.5 ug/L	MB	6/21/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Dibromomethane	217	<0.5 ug/L	MB	6/21/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	6/21/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	6/21/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	6/21/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	6/21/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/21/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/21/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	6/21/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 6/28/0

Project No. 01 Work Order No. 0005-0099

No. Sample ID
01 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qua
1,3-Dichloropropane	217	<0.5 ug/L	MB	6/21/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	6/21/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	6/21/00	
Ethylbenzene	217	<0.5 ug/L	MB	6/21/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	6/21/00	
Isopropylbenzene	217	<0.5 ug/L	MB	6/21/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Naphthalene	217	<0.5 ug/L	MB	6/21/00	
n-Propylbenzene	217	<0.5 ug/L	MB	6/21/00	
Styrene	217	<0.5 ug/L	MB	6/21/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/21/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/21/00	
Tetrachloroethene	217	<0.5 ug/L	MB	6/21/00	
Toluene	217	<0.5 ug/L	MB	6/21/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	6/21/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	6/21/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	6/21/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	6/21/00	
Trichloroethene	217	<0.5 ug/L	MB	6/21/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	6/21/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	6/21/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	6/21/00	
Vinyl chloride	221	<0.5 ug/L	MB	6/21/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Total Suspended Solids	EPA 160.2	<1.0* mg/L	ELC	6/26/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	6/22/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	6/22/00	
Metals Prep	EPA 3050	DONE	CLP	6/20/00	

* ANALYZED OUT OF HOLDING TIME, LABORATORY ERROR.

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 6/28/0

Project No. 01 Work Order No. 0005-0099

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	6/16/2000	9:40	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	6/21/00	
Benzene	217	<0.5 ug/L	MB	6/21/00	
Bromobenzene	217	<0.5 ug/L	MB	6/21/00	
Bromochlcromethane	217	<0.5 ug/L	MB	6/21/00	
Bromodichloromethane	217	<0.5 ug/L	MB	6/21/00	
Bromoform	217	<0.5 ug/L	MB	6/21/00	
Bromomethane	217	<0.5 ug/L	MB	6/21/00	
n-Butylbenzene	217	<0.5 ug/L	MB	6/21/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	6/21/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	6/21/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	6/21/00	
Chlorobenzene	217	<0.5 ug/L	MB	6/21/00	
Chloroethane	217	<0.5 ug/L	MB	6/21/00	
Chloroform	217	0.76 ug/L	MB	6/21/00	
Chloromethane	217	<0.5 ug/L	MB	6/21/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Dibromomethane	217	<0.5 ug/L	MB	6/21/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	6/21/00	
1,1-Dichloroethane	217	1.77 ug/L	MB	6/21/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	6/21/00	
1,1-Dichloroethene	217	32.1 ug/L	MB	6/21/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/21/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	6/21/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	6/21/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	6/21/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	6/21/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	6/21/00	
Ethylbenzene	217	<0.5 ug/L	MB	6/21/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	6/21/00	
Isopropylbenzene	217	<0.5 ug/L	MB	6/21/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Naphthalene	217	<0.5 ug/L	MB	6/21/00	
n-Propylbenzene	217	<0.5 ug/L	MB	6/21/00	
Styrene	217	<0.5 ug/L	MB	6/21/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/21/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 6/28/0

Project No. 01 Work Order No. 0005-0099

Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qua
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	6/21/00	
Tetrachloroethene	217	69.3 ug/L	MB	6/21/00	
Toluene	217	<0.5 ug/L	MB	6/21/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	6/21/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	6/21/00	
1,1,1-Trichloroethane	217	36.9 ug/L	MB	6/21/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	6/21/00	
Trichloroethene	217	2.41 ug/L	MB	6/21/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	6/21/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	6/21/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	6/21/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	6/21/00	
Vinyl chloride	221	<0.5 ug/L	MB	6/21/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	6/21/00	
Total Suspended Solids	EPA 160.2	<1.0* mg/L	ELC	6/26/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	6/22/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	6/22/00	
Metals Prep	EPA 3050	DONE	CLP	6/20/00	

* ANALYZED OUT OF HOLDING TIME, LABORATORY ERROR.

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0005-00990

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): [signature]

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☑ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G	6-16-00	9:00	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, ~~AA-FEW~~, ~~AA-MNW~~, AA-METLX Run only Cu + Pb metals + 6230 D	

Relinquished by (signature)	Received by (signature)	Date	Time
[signature]	[signature]	6-16-00	10:30
Relinquished by (signature)	Received by (signature)	Date	Time
	[signature]		
Relinquished by (signature)	Received by (signature)	Date	Time
CDL	[signature]	6/16	12:00

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 4.5 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

RECEIVED
AUG 17 2000
BY:

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

August 16, 2000

Central Files
NC Division of Water Quality
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

SUBJECT: ~~June~~ JULY 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on July 25, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC 00 86126 DISCHARGE NO. _____ MONTH July YEAR 2001
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-62
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Neal Blackmon

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran H Kabbendjian 8/16/01
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☑ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspended Solids mg/l	01042 Copper mg/l	01051 Lead mg/l								
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
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25			✓					<1.0	<.010	<.005								
26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit																		

DEM Form MR-1.1
(Revised 1/12/01)

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, etc., and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V. Kabbendjian 8/16/2000
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/2002
Permittee Address Phone Number (919) 850-6248 Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldehyde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (D).

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

August 16, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: July 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on July 25, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL USA
Permit Name (if different): ALCATEL NETWORK SYSTEMS
Facility Address: 2912 WAKE FOREST RD.
RALEIGH (Street) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: (919) 850 - 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit): _____
Well Depth: _____ ft. Well Diameter: _____ in.
Screened Interval: _____ ft. to _____ ft.
Depth to Water Level: _____ ft. below measuring point.
Measuring Point is _____ ft. above land surface.
Gallons of water pumped/bailed before sampling: _____
Field analysis: pH _____, Specific Conductance _____ uMhos
Temp. _____ °C, Odor _____ Appearance _____

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #:
Non-Discharge WQ0012201 UIC _____
NPDES _____
EXPIRATION DATE: 8/31/2001

TYPE OF PERMITTED OPERATION BEING MONITORED
_____ Lagoon
_____ Spray Field
_____ Rotary Distributor
_____ Other:
_____ Remediation: Infiltration Gallery
X Remediation: Injection Wells
_____ Land Application of Sludge

NOTE: Values should reflect dissolved and colloidal concentrations.

Date sample collected: 7/25/00 Date sample analyzed: 8/2/2000
Laboratory Name: TRI TEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ____ NO and field acidified ____ YES ____ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	→Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l	Total Suspended Solids <1.0	
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	→Cu - Copper	<0.10 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ____ (0)
VOC _____ : method # = 6230-D
_____ : method # = _____
_____ : method # = _____

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN Mgr. ENV. Health & Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

Dikran V. Kabbendjian 8/11/2000

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 8/06/00
Date Received: 7/25/00

Work Order #: 0006-01221

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01	Ground Water-Effluent	7/25/2000	10:00	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	8/02/00	
Benzene	217	<0.5 ug/L	MB	8/02/00	
Bromobenzene	217	<0.5 ug/L	MB	8/02/00	
Bromochloromethane	217	<0.5 ug/L	MB	8/02/00	
Bromodichloromethane	217	<0.5 ug/L	MB	8/02/00	
Bromoform	217	<0.5 ug/L	MB	8/02/00	
Bromomethane	217	<0.5 ug/L	MB	8/02/00	
n-Butylbenzene	217	<0.5 ug/L	MB	8/02/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	8/02/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	8/02/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	8/02/00	
Chlorobenzene	217	<0.5 ug/L	MB	8/02/00	
Chloroethane	217	<0.5 ug/L	MB	8/02/00	
Chloroform	217	<0.5 ug/L	MB	8/02/00	
Chloromethane	217	<0.5 ug/L	MB	8/02/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Dibromomethane	217	<0.5 ug/L	MB	8/02/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	8/02/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	8/02/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	8/02/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	8/02/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/02/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/02/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	8/02/00	

---- Continued on Next Page ----

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 8/06/00
Date Received: 7/25/00

Work Order #: 0006-01221

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No. Sample ID
001 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,3-Dichloropropane	217	<0.5 ug/L	MB	8/02/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	8/02/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	8/02/00	
Ethylbenzene	217	<0.5 ug/L	MB	8/02/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	8/02/00	
Isopropylbenzene	217	<0.5 ug/L	MB	8/02/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Naphthalene	217	<0.5 ug/L	MB	8/02/00	
n-Propylbenzene	217	<0.5 ug/L	MB	8/02/00	
Styrene	217	<0.5 ug/L	MB	8/02/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/02/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/02/00	
Tetrachloroethene	217	<0.5 ug/L	MB	8/02/00	
Toluene	217	<0.5 ug/L	MB	8/02/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	8/02/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	8/02/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	8/02/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	8/02/00	
Trichloroethene	217	<0.5 ug/L	MB	8/02/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	8/02/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	8/02/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	8/02/00	
Vinyl chloride	221	<0.5 ug/L	MB	8/02/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TG	7/27/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	7/27/00	

---- Continued on Next Page ----

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 8/06/00
Date Received: 7/25/00

Work Order #: 0006-01221

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No. Sample ID
001 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qua
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	7/27/00	
Metals Prep	EPA 3050	DONE	CLP	7/25/00	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	7/25/2000	10:00	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	8/02/00	
Benzene	217	<0.5 ug/L	MB	8/02/00	
Bromobenzene	217	<0.5 ug/L	MB	8/02/00	
Bromochloromethane	217	<0.5 ug/L	MB	8/02/00	
Bromodichloromethane	217	<0.5 ug/L	MB	8/02/00	
Bromoform	217	<0.5 ug/L	MB	8/02/00	
Bromomethane	217	<0.5 ug/L	MB	8/02/00	
n-Butylbenzene	217	<0.5 ug/L	MB	8/02/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	8/02/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	8/02/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	8/02/00	
Chlorobenzene	217	<0.5 ug/L	MB	8/02/00	
Chloroethane	217	<0.5 ug/L	MB	8/02/00	
Chloroform	217	0.66 ug/L	MB	8/02/00	
Chloromethane	217	<0.5 ug/L	MB	8/02/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	8/02/00	

---- Continued on Next Page ----

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 8/06/00
Date Received: 7/25/00

Work Order #: 0006-01221

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No. Sample ID
002 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Dibromomethane	217	1.05 ug/L	MB	8/02/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	8/02/00	
1,1-Dichloroethane	217	1.81 ug/L	MB	8/02/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	8/02/00	
1,1-Dichloroethene	217	27.1 ug/L	MB	8/02/00	D8.
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/02/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/02/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	8/02/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	8/02/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	8/02/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	8/02/00	
Ethylbenzene	217	<0.5 ug/L	MB	8/02/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	8/02/00	
Isopropylbenzene	217	<0.5 ug/L	MB	8/02/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Naphthalene	217	<0.5 ug/L	MB	8/02/00	
n-Propylbenzene	217	<0.5 ug/L	MB	8/02/00	
Styrene	217	<0.5 ug/L	MB	8/02/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/02/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/02/00	
Tetrachloroethene	217	71.3 ug/L	MB	8/02/00	D8.
Toluene	217	<0.5 ug/L	MB	8/02/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	8/02/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	8/02/00	
1,1,1-Trichloroethane	217	37.2 ug/L	MB	8/02/00	D8.
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	8/02/00	
Trichloroethene	217	2.40 ug/L	MB	8/02/00	

---- Continued on Next Page ----

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 8/06/00
Date Received: 7/25/00

Work Order #: 0006-01221

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No. Sample ID
002 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qual
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	8/02/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	8/02/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	8/02/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	8/02/00	
Vinyl chloride	221	<0.5 ug/L	MB	8/02/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	8/02/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	TG	7/27/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	7/27/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	7/27/00	
Metals Prep	EPA 3050	DONE	CLP	7/25/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0006-01221

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): Neal Blackman

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G	7/25/00 10:00 AM	7/25/00 10:00 AM	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-METLX	

Preserved upon receipt. DT

Relinquished by (signature)	Received by (signature)	Date	Time
Neal Blackman	x S/O Campbell	7/25/00	1010
Orin Mann	David Davis	7/25	1327
David Davis	[illegible]	7/25	1345

Receipt Conditions (Lab Use Only): KB 7/25
☐ 4±2°C ☐Temp: 1.5 °C
Res. Chlorine ☐Absent ☐Present ☑n/a
Acid preserv. <2? ☑Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☑n/a

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

September 11, 2000

Central Files
NC Division of Water Quality
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

SUBJECT: August 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on August 24, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC 0086126 DISCHARGE NO. _____ MONTH August YEAR 2000
FACILITY NAME ALCATEL CLASS _____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. Kabbendjian GRADE III PHONE 919-850-6248
CERTIFIED LABORATORIES (1) TRI TEST (2) _____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Dikran Kabbendjian

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIVISION OF WATER QUALITY
1617 MAIL SERVICE CENTER
RALEIGH, NC 27699-1617

x Dikran V. Kabbendjian 9-11-00
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE

BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☐ INF ☐ DAILY RATE	00010 TEMPERATURE CELSIUS	00400 pH	50060 RESIDUAL CHLORINE ☐ MG/L ☐ UG/L	00310 BOD5 20°C	00610 AMMONIA NITROGEN	00530 TOTAL SUSPENDED RESIDUE	31616 FECAL COLIFORM (Geometric Mean)	00300 DISSOLVED OXYGEN	00600 TOTAL NITROGEN	00665 TOTAL PHOSPHOROUS	01042 Copper	01051 Lead		
															ENTER PARAMETER CODE ABOVE NAME AND UNITS BELOW			
	HRS	HRS	Y/B/N	MGD	°C	UNITS	UG/L	MG/L	MG/L	MG/L	#/100ML	MG/L	MG/L	MG/L	MG/L	MG/L		
1																		
2																		
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24	8:00	0.6	Y							<1.0					<.010	<.005		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)																		
Monthly Limit				0.08														

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, etc., and a time-table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

D V Kabbendjian 9.11.00
Signature of Permittee** (Required) Date

ALCATEL 2912 WAKE FOREST RD. RALEIGH, NC 27609
Permittee Address

(919) 850 - 6248
Phone Number

12-31-2002
Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldehyde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium	01045	Iron	38260	MBAS		
		00929	Total Sodium	01051	Lead	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01062	Molybdenum	50050	Flow		

Parameter Code assistance may obtained by calling the Point Source Compliance/Enforcement Unit at (919) 733-5083 or by visiting the Water Quality Section's web site at h2o.enr.state.nc.us/wqs and linking to the Unit's information pages.

Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

September 11, 2000

Groundwater Section
Permits and Compliance Unit
P. O. Box 29578
Raleigh, North Carolina 27626-0578

SUBJECT: August 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on August 24, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

SUBMIT FORM ON YELLOW PAPER ONLY

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DIVISION OF WATER QUALITY
GROUNDWATER SECTION - PERMITS AND COMPLIANCE UNIT
P.O. BOX 29578
RALEIGH, NC 27626-0578 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL USA
Permit Name (if different): ALCATEL NETWORK SYSTEMS
Facility Address: 2912 WAKE FOREST RD. (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone #: (919) 850 - 6248
Well Location/ Site Name: Treatment System No. of Wells to be Sampled: (from Permit)

Well Identification Number (from Permit): _____
Well Depth: _____ ft. Well Diameter: _____ in.
Screened Interval: _____ ft. to _____ ft.
Depth to Water Level: _____ ft. below measuring point.
Measuring Point is _____ ft. above land surface.
Gallons of water pumped/bailed before sampling: _____
Field analysis: pH _____, Specific Conductance _____ uMhos
Temp. _____ °C, Odor _____ Appearance _____

For Groundwater Treatment Systems
Check One:
☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ0012201 UIC _____
NPDES _____

TYPE OF PERMITTED OPERATION BEING MONITORED
_____ Lagoon _____ Remediation: Infiltration Gallery
_____ Spray Field X Remediation: Injection Wells
_____ Rotary Distributor _____ Land Application of Sludge
_____ Other: _____

NOTE: Values should reflect dissolved and colloidal concentrations.

Date sample collected: 8/24/00 Date sample analyzed: 8/31/00
Laboratory Name: TRI TEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ____ NO and field acidified ✓ YES ____ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	→Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l	Total Suspended Solids	<1.0
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	→Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l		
Sulfate	mg/l	Hg - Mercury	mg/l		
Specific Conductance	uMhos	K - Potassium	mg/l		
Total Ammonia	mg/l	Mg - Magnesium	mg/l		
TKN as N	mg/l	Mn - Manganese	mg/l		

ORGANICS: (GC,GC/MS,HPLC)
(Specify test and method #. Attach lab report.)
Report Attached? Yes ✓ (1) No ____ (0)
VOC : method # = 6230-D
: method # = _____
: method # = _____

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN Mgr. ENV. Health & Safety
Permittee (or Authorized Agent) Name and Title - Please print or type

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 9/06/00
Date Received: 8/24/00

Work Order #: 0007-01526

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

#. Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01 Ground Water-Effluent	8/24/2000	8:10	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	8/31/00	
Benzene	217	<0.5 ug/L	MB	8/31/00	
Bromobenzene	217	<0.5 ug/L	MB	8/31/00	
Bromochloromethane	217	<0.5 ug/L	MB	8/31/00	
Bromodichloromethane	217	<0.5 ug/L	MB	8/31/00	
Bromoform	217	<0.5 ug/L	MB	8/31/00	
Bromomethane	217	<0.5 ug/L	MB	8/31/00	
n-Butylbenzene	217	<0.5 ug/L	MB	8/31/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	8/31/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	8/31/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	8/31/00	
Chlorobenzene	217	<0.5 ug/L	MB	8/31/00	
Chloroethane	217	<0.5 ug/L	MB	8/31/00	
Chloroform	217	<0.5 ug/L	MB	8/31/00	
Chloromethane	217	<0.5 ug/L	MB	8/31/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Dibromomethane	217	<0.5 ug/L	MB	8/31/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	8/31/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	8/31/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	8/31/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	8/31/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/31/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/31/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	8/31/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 9/06/00

Project No. 01 Work Order No. 0007-01526

No. Sample ID
001 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,3-Dichloropropane	217	<0.5 ug/L	MB	8/31/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	8/31/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	8/31/00	
Ethylbenzene	217	<0.5 ug/L	MB	8/31/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	8/31/00	
Isopropylbenzene	217	<0.5 ug/L	MB	8/31/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Naphthalene	217	<0.5 ug/L	MB	8/31/00	
n-Propylbenzene	217	<0.5 ug/L	MB	8/31/00	
Styrene	217	<0.5 ug/L	MB	8/31/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/31/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/31/00	
Tetrachloroethene	217	<0.5 ug/L	MB	8/31/00	
Toluene	217	<0.5 ug/L	MB	8/31/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	8/31/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	8/31/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	8/31/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	8/31/00	
Trichloroethene	217	<0.5 ug/L	MB	8/31/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	8/31/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	8/31/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	8/31/00	
Vinyl chloride	221	<0.5 ug/L	MB	8/31/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	ELC	8/24/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	8/29/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	8/29/00	
Metals Prep	EPA 3050	DONE	CLP	8/28/00	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	8/24/2000	8:00	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	8/31/00	
Benzene	217	<0.5 ug/L	MB	8/31/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 9/06/0

Project No. 01 Work Order No. 0007-0152

b. Sample ID
002 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qua
Bromobenzene	217	<0.5 ug/L	MB	8/31/00	
Bromochloromethane	217	<0.5 ug/L	MB	8/31/00	
Bromodichloromethane	217	<0.5 ug/L	MB	8/31/00	
Bromoform	217	<0.5 ug/L	MB	8/31/00	
Bromomethane	217	<0.5 ug/L	MB	8/31/00	
n-Butylbenzene	217	<0.5 ug/L	MB	8/31/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	8/31/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	8/31/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	8/31/00	
Chlorobenzene	217	<0.5 ug/L	MB	8/31/00	
Chloroethane	217	<0.5 ug/L	MB	8/31/00	
Chloroform	217	0.71 ug/L	MB	8/31/00	
Chloromethane	217	<0.5 ug/L	MB	8/31/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Dibromomethane	217	<0.5 ug/L	MB	8/31/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	8/31/00	
1,1-Dichloroethane	217	1.15 ug/L	MB	8/31/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	8/31/00	
1,1-Dichloroethene	217	34.2 ug/L	MB	8/31/00	D8.
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/31/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	8/31/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	8/31/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	8/31/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	8/31/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	8/31/00	
Ethylbenzene	217	<0.5 ug/L	MB	8/31/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	8/31/00	
Isopropylbenzene	217	<0.5 ug/L	MB	8/31/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Naphthalene	217	<0.5 ug/L	MB	8/31/00	
n-Propylbenzene	217	<0.5 ug/L	MB	8/31/00	
Styrene	217	<0.5 ug/L	MB	8/31/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/31/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	8/31/00	
Tetrachloroethene	217	65.3 ug/L	MB	8/31/00	D8.
Toluene	217	<0.5 ug/L	MB	8/31/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 9/06/00

Project No. 01 Work Order No. 0007-01526

No. Sample ID
002 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	8/31/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	8/31/00	
1,1,1-Trichloroethane	217	47.8 ug/L	MB	8/31/00	D8.8
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	8/31/00	
Trichloroethene	217	2.13 ug/L	MB	8/31/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	8/31/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	8/31/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	8/31/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	8/31/00	
Vinyl chloride	221	<0.5 ug/L	MB	8/31/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	8/31/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	ELC	8/24/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	8/29/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	8/29/00	
Metals Prep	EPA 3050	DONE	CLP	8/28/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0007-01526

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D V Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rusn Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G	8/24	8:00	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-METLX	

Relinquished by (signature)	Received by (signature)	Date	Time
D V Kabbendjian	Sgt [illegible]	8/24	8:20
Relinquished by (signature)	Received by (signature)	Date	Time
Sgt [illegible]	[illegible]	8/24	1:36
Relinquished by (signature)	Received by (signature)	Date	Time
[illegible]	[illegible]	8/24	1:50

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 5.5 °C
Res. Chlorine ☑Absent ☐Present ☐n/a
Acid preserv. <2? ☐Yes ☐No ☑n/a
Base preserv. >12? ☐Yes ☐No ☑n/a

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0007-01526

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☒ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G	8/24	8/10	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-METLX	

Relinquished by (signature)	Received by (signature)	Date	Time
D Kabbendjian	Sgt D. Mann	8/24	8:20
Sgt D. Mann		8/24	1:30
		8/24	1:50

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 5.5 °C
Res. Chlorine ☒Absent ☐Present ☐n/a
Acid preserv. <2? ☐Yes ☐No ☒n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

October 27, 2000

DENR Division of Water Quality
Groundwater Section
1636 Mail Service Center
Raleigh, North Carolina 27699-1636

SUBJECT: September 2000 Analytical Results
Alcatel
Non-Discharge Permit Number WQ0012221
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on September 26, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site. The overflow is discharged under NPDES permit # NC0086126.

If you have any questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure

cc: Triangle Environmental, Inc.

GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

Mail Original to: DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
WATER QUALITY DIVISION, GROUNDWATER SECTION
1636 MAIL SERVICE CENTER
RALEIGH, NC 27699-1636 Phone: (919) 733-3221

FACILITY INFORMATION *Please Print Clearly or Type*

Facility Name: ALCATEL USA
Permit Name (if different): ALCATEL NETWORK SYSTEMS
Facility Address: 2912 WAKE FOREST RD (Street)
RALEIGH (City) NC (State) 27609 (Zip) County WAKE
Contact Person: DIKRAN KABBENDJIAN Telephone # (919) 850-6248
Well Location/ Site Name: _____ No. of Wells to be Sampled: _____ (from Permit)

Well Identification Number (from Permit): _____
Well Depth: _____ ft. Well Diameter: _____ in.
Screened Interval: _____ ft. to _____ ft.
Depth to Water Level: _____ ft. below measuring point.
Measuring Point (M.P.) is: _____ ft. above land surface. Relative M.P. Elevation in ft.: _____
Gallons of water pumped/bailed before sampling: _____ Date sample collected: _____
Field analysis: pH _____, Specific Conductance _____ uMhos
Temp. _____ °C, Odor _____ Appearance _____

For Groundwater Treatment Systems
Check One: ☐ Influent (98)
☒ Effluent (99)

PERMIT #: EXPIRATION DATE: 8/31/2001
Non-Discharge WQ0012221 UIC _____
NPDES _____

TYPE OF PERMITTED OPERATION BEING MONITORED
_____ Lagoon _____ Remediation: Infiltration Gallery
_____ Spray Field X Remediation: Injection Wells
_____ Rotary Distributor _____ Land Application of Sludge
_____ Other: _____

NOTE: Values should reflect dissolved and colloidal concentrations.

Date sample analyzed: 9/29/00
Laboratory Name: TRITEST
Certification No. WW # 067

PARAMETERS (Samples for metals were collected unfiltered ✓ YES ____ NO and field acidified ____ YES ____ NO)

COD	mg/l	Nitrite (NO_2) as N	mg/l	Ni - Nickel	mg/l
Coliform: MF Fecal	/100ml	Nitrate (NO_3) as N	mg/l	→ Pb - Lead	<0.005 mg/l
Coliform: MF Total	/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)		Orthophosphate	mg/l	Ammonia Nitrogen	mg/l
Dissolved Solids: Total	mg/l	Al - Aluminum	mg/l	Other (Specify Compounds and Concentration Units)	
pH (when analyzed)	units	Ba - Barium	mg/l		
TOC	mg/l	Ca - Calcium	mg/l		
Chloride	mg/l	Cd - Cadmium	mg/l	Total Suspended Solids	<1.0
Arsenic	mg/l	Chromium: Total	mg/l		
Grease and Oils	mg/l	→ Cu - Copper	<0.010 mg/l		
Phenol	mg/l	Fe - Iron	mg/l	ORGANICS: (GC,GC/MS,HPLC)	
Sulfate	mg/l	Hg - Mercury	mg/l	(Specify test and method #. Attach lab report.)	
Specific Conductance	uMhos	K - Potassium	mg/l	Report Attached? Yes ✓ (1) No ____ (0)	
Total Ammonia	mg/l	Mg - Magnesium	mg/l	VOC : method # = 6230-D	
TKN as N	mg/l	Mn - Manganese	mg/l	: method # =	
				: method # =	

I certify that, to the best of my knowledge and belief, the information submitted in this report is true, accurate, and complete, and that the laboratory analytical data was produced using approved methods of analysis by a North Carolina DWQ (formerly DEM) certified laboratory. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

DIKRAN V. KABBENDJIAN
Permittee (or Authorized Agent) Name and Title - Please print or type

Dikran V. Kabbendjian 10/27/00
Signature of Permittee (or Authorized Agent) (Date)

GW-59
Rev. 03/2000

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

October 27, 2000

Central Files
NC Division of Water Quality
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

SUBJECT: September 2000 Analytical Results
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find the monthly analytical laboratory results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Water samples were collected on September 26, 2000 from the Influent and Effluent sampling ports of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please do not hesitate to contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure 2 copies

cc: Triangle Environmental, Inc.

EFFLUENT

NPDES PERMIT NO. NC0086126 DISCHARGE NO._____ MONTH_____ YEAR_____
FACILITY NAME ALCATEL CLASS_____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-6248
CERTIFIED LABORATORIES (1) TRI TEST (2)_____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES D. KABBENDJIAN

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIVISION OF WATER QUALITY
1617 MAIL SERVICE CENTER
RALEIGH, NC 27699-1617

x Dikran V. Kabbendjian 10/27/00
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE

BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☒ INF ☐ DAILY RATE	00010 TEMPERATURE CELSIUS	00400 pH	50060 RESIDUAL CHLORINE ☐ MG/L ☐ UG/L	00310 BOD5 20°C	00610 AMMONIA NITROGEN	00530 TOTAL SUSPENDED RESIDUE	31616 FECAL COLIFORM (Geometric Mean)	00300 DISSOLVED OXYGEN	00600 TOTAL NITROGEN	00665 TOTAL PHOSPHOROUS	01042 Copper	01051 Lead	6230-D	
															ENTER PARAMETER CODE ABOVE NAME AND UNITS BELOW			
	HRS	HRS	Y/B/N	MGD	°C	UNITS	UG/L	MG/L	MG/L	MG/L	#/100ML	MG/L	MG/L	MG/L	MG/L	MG/L	µg/L	
1																		
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25																		
26		✓								<1.0					<0.010	<.005	Enclosed	
27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)																		
Monthly Limit				0.08														

DWQ Form MR-1 (01/00)

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements ☒ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, etc., and a time-table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran V Kabbendjian 10/27/00
Signature of Permittee** (Required) Date

ALCATEL 2912 WAKE FOREST RD. RALEIGH NC 27609 12/31/200
Permittee Address Phone Number (919)850-6248 Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldehyde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium	01045	Iron	38260	MBAS		
		00929	Total Sodium	01051	Lead	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01062	Molybdenum	50050	Flow		

Parameter Code assistance may obtained by calling the Point Source Compliance/Enforcement Unit at (919) 733-5083 or by visiting the Water Quality Section's web site at h2o.enr.state.nc.us/wqs and linking to the Unit's information pages.

Use only units designated in the reporting facility's permit for reporting data.

* ORC must visit facility and document visitation of facility as required per 15A NCAC 8G .0204.

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (2) (D).

TRITEST, INC.
3909 Beryl Road
Raleigh, NC 27607
Telephone: (919) 834-4984
Fax: (919) 834-6497
NC/WW Cert.#: 067

Laboratory Report

--- Prepared for ---

Mr. Dikran V. Kabbendjian
Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Report Date: 10/10/00
Date Received: 9/26/00

Work Order #: 0008-00737

Cust. Code: AL6248
Cust. P.O.#:

Project ID: 01
Project Info: Monthly Analysis

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
01	Ground Water-Effluent	9/26/2000	10:15	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qual
VOCs in GW	SM 6230D		MB	9/29/00	
Benzene	217	<0.5 ug/L	MB	9/29/00	
Bromobenzene	217	<0.5 ug/L	MB	9/29/00	
Bromochloromethane	217	<0.5 ug/L	MB	9/29/00	
Bromodichloromethane	217	<0.5 ug/L	MB	9/29/00	
Bromoform	217	<0.5 ug/L	MB	9/29/00	
Bromomethane	217	<0.5 ug/L	MB	9/29/00	
n-Butylbenzene	217	<0.5 ug/L	MB	9/29/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	9/29/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	9/29/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	9/29/00	
Chlorobenzene	217	<0.5 ug/L	MB	9/29/00	
Chloroethane	217	<0.5 ug/L	MB	9/29/00	
Chloroform	217	<0.5 ug/L	MB	9/29/00	
Chloromethane	217	<0.5 ug/L	MB	9/29/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Dibromomethane	217	<0.5 ug/L	MB	9/29/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	9/29/00	
1,1-Dichloroethane	217	<0.5 ug/L	MB	9/29/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	9/29/00	
1,1-Dichloroethene	217	<0.5 ug/L	MB	9/29/00	
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	9/29/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	9/29/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	9/29/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 10/10/0

Project No. 01 Work Order No. 0008-0073

No. Sample ID
001 Ground Water-Effluent

Test Performed	Method	Results	Tech	Analyzed	Qua
1,3-Dichloropropane	217	<0.5 ug/L	MB	9/29/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	9/29/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	9/29/00	
Ethylbenzene	217	<0.5 ug/L	MB	9/29/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	9/29/00	
Isopropylbenzene	217	<0.5 ug/L	MB	9/29/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Naphthalene	217	<0.5 ug/L	MB	9/29/00	
n-Propylbenzene	217	<0.5 ug/L	MB	9/29/00	
Styrene	217	<0.5 ug/L	MB	9/29/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	9/29/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	9/29/00	
Tetrachloroethene	217	<0.5 ug/L	MB	9/29/00	
Toluene	217	<0.5 ug/L	MB	9/29/00	
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	9/29/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	9/29/00	
1,1,1-Trichloroethane	217	<0.5 ug/L	MB	9/29/00	
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	9/29/00	
Trichloroethene	217	<0.5 ug/L	MB	9/29/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	9/29/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	9/29/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	9/29/00	
Vinyl chloride	221	<0.5 ug/L	MB	9/29/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	CTP	10/02/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	10/03/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	10/03/00	
Metals Prep	EPA 3050	DONE	CLP	9/28/00	

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Condition
002	Ground Water- Influent	9/26/2000	10:15	GW	4±2°C

Test Performed	Method	Results	Tech	Analyzed	Qua
VOCs in GW	SM 6230D		MB	9/29/00	
Benzene	217	<0.5 ug/L	MB	9/29/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 10/10/0(

Project No. 01 Work Order No. 0008-0073

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qual
Bromobenzene	217	<0.5 ug/L	MB	9/29/00	
Bromochloromethane	217	<0.5 ug/L	MB	9/29/00	
Bromodichloromethane	217	<0.5 ug/L	MB	9/29/00	
Bromoform	217	<0.5 ug/L	MB	9/29/00	
Bromomethane	217	<0.5 ug/L	MB	9/29/00	
n-Butylbenzene	217	<0.5 ug/L	MB	9/29/00	
sec-Butylbenzene	217	<0.5 ug/L	MB	9/29/00	
tert-Butylbenzene	217	<0.5 ug/L	MB	9/29/00	
Carbon tetrachloride	217	<0.5 ug/L	MB	9/29/00	
Chlorobenzene	217	<0.5 ug/L	MB	9/29/00	
Chloroethane	217	<0.5 ug/L	MB	9/29/00	
Chloroform	217	<0.5 ug/L	MB	9/29/00	
Chloromethane	217	<0.5 ug/L	MB	9/29/00	
2-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
4-Chlorotoluene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Dibromochloromethane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
1,2-Dibromo-3-chloropropane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
1,2-Dibromoethane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Dibromomethane	217	<0.5 ug/L	MB	9/29/00	
Dichlorodifluoromethane	217	<0.5 ug/L	MB	9/29/00	
1,1-Dichloroethane	217	2.10 ug/L	MB	9/29/00	
1,2-Dichloroethane	221	<0.5 ug/L	MB	9/29/00	
1,1-Dichloroethene	217	41.0 ug/L	MB	9/29/00	D8.
cis-1,2-Dichloroethene	217	<0.5 ug/L	MB	9/29/00	
trans-1,2-Dichloroethene	217	<0.5 ug/L	MB	9/29/00	
1,2-Dichloropropane	217	<0.5 ug/L	MB	9/29/00	
1,3-Dichloropropane	217	<0.5 ug/L	MB	9/29/00	
2,2-Dichloropropane	217	<0.5 ug/L	MB	9/29/00	
1,1-Dichloropropene	217	<0.5 ug/L	MB	9/29/00	
Ethylbenzene	217	<0.5 ug/L	MB	9/29/00	
Hexachlorobutadiene	217	<0.5 ug/L	MB	9/29/00	
Isopropylbenzene	217	<0.5 ug/L	MB	9/29/00	
4-Isopropyltoluene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Methylene chloride	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Naphthalene	217	<0.5 ug/L	MB	9/29/00	
n-Propylbenzene	217	<0.5 ug/L	MB	9/29/00	
Styrene	217	<0.5 ug/L	MB	9/29/00	
1,1,1,2-Tetrachloroethane	217	<0.5 ug/L	MB	9/29/00	
1,1,2,2-Tetrachloroethane	217	<0.5 ug/L	MB	9/29/00	
Tetrachloroethene	217	80.5 ug/L	MB	9/29/00	D8.
Toluene	217	<0.5 ug/L	MB	9/29/00	

---- Continued on Next Page ----

Laboratory Report

Alcatel Network Systems, Inc. Report Date 10/10/00

Project No. 01 Work Order No. 0008-00737

No. Sample ID
02 Ground Water- Influent

Test Performed	Method	Results	Tech	Analyzed	Qual
1,2,3-Trichlorobenzene	217	<0.5 ug/L	MB	9/29/00	
1,2,4-Trichlorobenzene	217	<0.5 ug/L	MB	9/29/00	
1,1,1-Trichloroethane	217	28.6 ug/L	MB	9/29/00	D8.8
1,1,2-Trichloroethane	217	<0.5 ug/L	MB	9/29/00	
Trichloroethene	217	2.73 ug/L	MB	9/29/00	
Trichlorofluoromethane	EPA 502.2	<0.5 ug/L	MB	9/29/00	
1,2,3-Trichloropropane	217	<0.5 ug/L	MB	9/29/00	
1,2,4-Trimethylbenzene	217	<0.5 ug/L	MB	9/29/00	
1,3,5-Trimethylbenzene	217	<0.5 ug/L	MB	9/29/00	
Vinyl chloride	221	<0.5 ug/L	MB	9/29/00	
o-Xylene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
m,p-Xylene	EPA 502.2	<0.5 ug/L	MB	9/29/00	
Total Suspended Solids	EPA 160.2	<1.0 mg/L	CTP	10/02/00	
Copper by ICP/MS-Waters	EPA 200.8	<0.010 mg/L	SRB	10/03/00	
Lead by ICP/MS-Waters	EPA 200.8	<0.005 mg/L	SRB	10/03/00	
Metals Prep	EPA 3050	DONE	CLP	9/28/00	

D8.8: ANALYTE VALUE DETERMINED FROM A 1:8.8 DILUTION.

Report certified by:

for Tritest, Inc.

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0008-00737

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water-Effluent	G	9-26	10:15	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	001
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-METLX Metal sample preserved @ rept. in lab 9/26	

Relinquished by (signature)	Received by (signature)	Date	Time
D Kabbendjian	Siri Mar	9/26/00	10:35
Siri Mar	Carl Allen	9-26-00	3:40
Carl Allen	Stmerill	9-26-00	4:00

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 3.5 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

Tritest, Inc.
3909 Beryl Road, Raleigh, NC 27607
ph: (919) 834-4984 fax: (919) 834-6497
NCWW CERT#67, NCDW CERT#37731

Chain of Custody

Tritest W.O. # 0008-00737

Report Results To:

Company: Alcatel Network Systems, Inc.
Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

Attn: Mr. Dikran V. Kabbendjian

Phone: 850-6248 Fax: 850-6477

Sampled by (signature): D V Kabbendjian

Bill To:

Alcatel Network Systems, Inc.
2912 Wake Forest Rd.
Raleigh, NC 27609

Project Reference: Standard Project
Project Number: 01
Purchase Order #:

☐ Standard Report Delivery
☐ Rush Report Delivery (w/surcharge)
**Rush projects are subject to prior approval by the laboratory
Requested Due Date:

Sample Description	Composite / Grab	Start Date / Start Time	End Date / End Time	Matrix WW,DW SW,GWS	Analyses Requested	Tritest Sample #
Ground Water- Influent	G	9-26	10:25	GW	CR-6230D, ZZ-502-1, ZZ-502-2, ZZ-502-3, ZZ-502-4, ZZ-502-5, ZZ-502-6, ZZ-502-7, ZZ-502-8, ZZ-502-9, ZZ-502-10, ZZ-502-11, ZZ-502-12, ZZ-502-13, ZZ-502-14, ZZ-502-15,	002
					ZZ-502-16, ZZ-502-17, ZZ-502-18, ZZ-502-19, ZZ-502-20, ZZ-502-21, ZZ-502-22, ZZ-502-23, ZZ-502-24, ZZ-502-25, ZZ-502-26, ZZ-502-27, ZZ-502-28, ZZ-502-29, ZZ-502-30, ZZ-502-33, ZZ-502-34, ZZ-502-35, ZZ-502-36, ZZ-502-37, ZZ-502-38, ZZ-502-39, ZZ-502-40, ZZ-502-41, ZZ-502-42, ZZ-502-43, ZZ-502-44, ZZ-502-45, ZZ-502-46, ZZ-502-47, ZZ-502-48, ZZ-502-49, ZZ-502-50, ZZ-502-51, ZZ-502-52, ZZ-502-53, ZZ-502-54, ZZ-502-55, ZZ-502-56, WC-TSS, AA-CUW, AA-PBW, AA-METLX Metal sample preserved upon rcpt @ lab 9/26	

Relinquished by (signature)	Received by (signature)	Date	Time
D V Kabbendjian	Dia Mann	9/26/00	10:35
Dia Mann	Carl Ulla	9-26-00	340
Carl Ulla	Sherrill	9-26-00	400

Receipt Conditions (Lab Use Only):
☐ 4±2°C ☐Temp: 3.5 °C
Res. Chlorine ☐Absent ☐Present ☒n/a
Acid preserv. <2? ☒Yes ☐No ☐n/a
Base preserv. >12? ☐Yes ☐No ☒n/a

APPENDIX B

CERIODAPHNIA TOXICITY TEST AND PERMIT SAMPLING RESULTS

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

February 29, 2000

Environmental Sciences Branch
Div. of Environmental Management
NC DENR
4401 Reedy Creek Road
Raleigh, North Carolina 27607-6445

SUBJECT: Results of Chronic Toxicity Test for First-Quarter, 2000
NPDES Permit No. NC0086126
Alcatel Network Systems, Inc.
Raleigh, North Carolina

Enclosed you will find two copies of the Chronic Toxicity test results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Two twenty-four hour composite water samples were collected on February 1 and 4, 2000 from the Effluent sampling port of the system.

Our earlier attempt to collect samples during the week of January 24, were interrupted due to the record snow-fall that shut our plant and the laboratory down for several days. As a result, the samples were collected the following week. I called and left a message at your office on Thursday, January 24 to alert you of this matter.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure
cc: Triangle Environmental, Inc.

Effluent Toxicity Report Form - Chronic Pass/Fail and Acute LC50 Date: 02/23/00

Facility: ALCALTEL NETWORK SYSTEMS NPDES#: NC0086126 Pipe#: 001 County: WAKE

Laboratory Performing Test: TRITEST, INC.

X Signature of Operator in Responsible Charge

X Signature of Laboratory Supervisor

Comments: _____

* PASSED: -4.13% Reduction *

Work Order: 0001-00745

MAIL ORIGINAL TO:

Environmental Sciences Branch
Div. of Environmental Management
N.C. Dept. of EHNR
4401 Reedy Creek Road
Raleigh, North Carolina 27607-6445

North Carolina Ceriodaphnia
Chronic Pass/Fail Reproduction Toxicity Test

CONTROL ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12
# Young Produced	33	38	32	29	35	30	27	36	40	28	32	27
Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L	L	L

Effluent %: 6.1%

TREATMENT 2 ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12
# Young Produced	35	33	34	35	34	29	37	38	29	32	33	34
Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L	L	L

Chronic Test Results
Calculated t = -0.907
Tabular t = 2.508
% Reduction = -4.13

% Mortality	Avg.Reprod.
0.00 Control	32.25 Control
0.00 Treatment 2	33.58 Treatment 2

Control CV 13.361%

% control orgs producing 3rd brood 100%

PASS	FAIL
X	
Check One	

pH	1st sample start	1st sample end	1st sample start	1st sample end	2nd sample start	2nd sample end
Control	7.8	7.9	7.9	8.1	7.9	7.9
Treatment 2	7.8	8.0	7.9	8.1	7.9	7.9

D.O.	1st sample start	1st sample end	1st sample start	1st sample end	2nd sample start	2nd sample end
Control	8.0	8.0	8.0	8.0	8.2	8.1
Treatment 2	8.0	8.0	8.0	8.0	8.2	8.1

Complete This For Either Test
Test Start Date: 02/02/00
Collection (Start) Date
Sample 1: 01/31/00 Sample 2: 02/03/00
Sample Type/Duration

	Grab	Comp.	Duration	DILUT	1st SAMP	2nd P/F SAMP
Sample 1		X	24 hrs			
Sample 2		X	24 hrs			
Hardness (mg/l)					47	
Spec. Cond. (µmhos)					190	200	195
Chlorine (mg/l)						<0.1	<0.1
Sample temp. at receipt (°C)						1.5	0.5

LC50/Acute Toxicity Test

(Mortality expressed as %, combining replicates)

%	%	%	%	%	%	%	%	%	%	Concentration
%	%	%	%	%	%	%	%	%	%	Mortality

Note: Please Complete This Section Also

LC50 = _____ %
95% Confidence Limits
_____ % -- _____ %

Method of Determination
Moving Average __ Probit __
Spearman Karber __ Other ____

	pH start/end		D.O. start/end	
Control				
High Conc.				

Organism Tested: Ceriodaphnia dubia Duration(hrs): _____

Copied from DEM form AT-1 (3/87) rev. 11/95 (DUBIA ver. 4.32)

EFFLUENT

1Q2000

NPDES PERMIT NO. NC0086126 DISCHARGE NO. _____ MONTH Jan/Feb YEAR 2000

FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE

OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-6243

CERTIFIED LABORATORIES (1) TRI TEST (2) _____

CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES Dikran Kabbendjian

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

x Dikran V. Kabbendjian 2/29/20
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE

BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? *	50050 FLOW EFF ☐ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total Suspended Solids mg/l	01042 Copper mg/l	01045 Iron mg/l	01051 Lead mg/l	01055 Manganese mg/l						
	HRS	HRS	Y/N	MGD														
1					X													
2																		
3																		
4					X													
5																		
6																		
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28																		
29																		
30																		
31																		
AVERAGE																		
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)																		
Monthly Limit				0.08				G	G	G	G	G						

Chronic Toxicity - Pass

Facility Status: (Please check one of the following)

All monitoring data and sampling frequencies meet permit requirements — ☑ Compliant

All monitoring data and sampling frequencies do NOT meet permit requirements — ☐ Noncompliant

If the facility is noncompliant, please comment on corrective actions being taken in respect to equipment, operation, maintenance, etc., and a time table for improvements to be made.

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

DIKRAN V. KABBENDJIAN
Permittee (Please print or type)

Dikran Kabbendjian 2/29/2000
Signature of Permittee** Date

ALCATEL - 2912 WAKE FOREST RD. RALEIGH NC 27609 — 12/31/2002
Permittee Address — Phone Number (919) 850-6248 — Permit Exp. Date

PARAMETER CODES

00010	Temperature	00556	Oil & Grease	00951	Total Fluoride	01067	Nickel	50060	Total Residual Chlorine
00076	Turbidity	00600	Total Nitrogen	01002	Total Arsenic	01077	Silver		
00080	Color (Pt-Co)	00610	Ammonia Nitrogen			01092	Zinc		
00082	Color (ADMI)	00625	Total Kjeldhal Nitrogen	01027	Cadmium	01105	Aluminum		
00095	Conductivity	00630	Nitrates/Nitrites	01032	Hexavalent Chromium	01147	Total Selenium	71880	Formaldehyde
00300	Dissolved Oxygen			01034	Chromium	31616	Fecal Coliform	71900	Mercury
00310	BOD_5	00665	Total Phosphorous			32730	Total Phenolics	81551	Xylene
00340	COD	00720	Cyanide	01037	Total Cobalt	34235	Benzene		
00400	pH	00745	Total Sulfide	01042	Copper	34481	Toluene		
00530	Total Suspended Residue	00927	Total Magnesium			38260	MBAS		
		00929	Total Sodium	01045	Iron	39516	PCBs		
00545	Settleable Matter	00940	Total Chloride	01051	Lead	50050	Flow		

Parameter Code assistance may obtained by calling the Water Quality Compliance Group at (919) 733-5083, extension 581 or 534.

The monthly average for fecal coliform is to be reported as a GEOMETRIC mean. Use only units designated in the reporting facility's permit for reporting data.

ORC must visit facility and document visitation of facility as required per 15A NCAC 8A .0202 (b) (5) (B).

** If signed by other than the permittee, delegation of signatory authority must be on file with the state per 15A NCAC 2B .0506 (b) (D).

TRITEST, INC.

Bioassay Chain of Custody Form

Facility Name: ALCATEL

Address: 2912 WAKE FOREST Rd.
RALEIGH N.C. 27609

P.O. #:

Phone #: (919) 850-6248

Contact: Dikran Kabbendjian

County: WAKE Outfall/ Pipe #: NPDES Permit #: NC0086126

%Effluent Dilution : Test Method: Chronic Toxicity

Sample Site Description: Remediation System Effluent

Sample Collector: Print > NEAL BLACKMON

Signature > Neal Blackmon

Sample Type: **Composite :**

Date Started : 2/3/00 Time : 8:00 AM or PM

Date Ended : 2/4/00 Time : 8:00 AM or PM

Samples per Hour : 15 # Hours : 24

Grab :

Date : Time : AM or PM

Sample Volume: 2 1 liter bottles Chilled during Collection? YES

Method of Transportation to Lab :

Chain of Custody Release

Relinquished By	Date	Time	Received By	Date	Time
Neal Blackmon	2/4/00	0815	[illegible]	2/4/00	0825
[illegible]	2/4/00	1437	[illegible]	2/4/00	1440

For Laboratory Use Only

Receiving Temperature: 0.5°C By: [illegible]

Residual Chlorine: Number of Bottles :

Address: 3909 Beryl Rd.- Raleigh, NC 27607 Phone(919) 834 -4984 Fax (919) 834-6497

TRITEST, INC.

Bioassay Chain of Custody Form

Facility Name: ALCATEL

Address: 2912 WAKE FOREST Rd
Raleigh, N.C. 27609

P.O. #:

Phone # (919) 850-6248

Contact: Dikran Kabbendjian

County: WAKE

Outfall/ Pipe #:

NPDES Permit #: NC0086126

%Effluent Dilution :

Test Method: Chronic Tox

Sample Site Description: Remediation System Effluent

Sample Collector: Print > NEAL BLACKMON

Signature > Neal Blackmon

Sample Type: **Composite :**

Date Started : 1/31/00 Time : 8:00 (AM) or PM

Date Ended : 2/1/00 Time : 8:00 (AM) or PM

Samples per Hour : 15 # Hours : 24

Grab :

Date : Time : AM or PM

Sample Volume: 2 - 1liter bottles Chilled during Collection? YES

Method of Transportation to Lab :

Chain of Custody Release

Relinquished By	Date	Time	Received By	Date	Time
Neal Blackmon	2/1/00	8:30 AM	[illegible]	2-1-00	8:30
[illegible]	2-1-00	1340	[illegible]	2-1-00	1340
[illegible]	02-01-00	1400	[illegible]	2/1	14:00

For Laboratory Use Only

Receiving Temperature: 1.5°C By: [illegible]

Residual Chlorine: Number of Bottles :

0001-00745

Tritest, Inc. Phone 919-834-4984

919) 834-4984, Fax (919) 834-6497

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

May 8, 2000

Environmental Sciences Branch
Div. of Environmental Management
NC DENR
4401 Reedy Creek Road
Raleigh, North Carolina 27607-6445

SUBJECT: Results of Chronic Toxicity Test for Second Quarter, 2000
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find two copies of the Chronic Toxicity test results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Two twenty-four hour composite water samples were collected on April 11 and 14, 2000 from the Effluent sampling port of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please contact me at (919) 850-6248.

Very truly yours,

Dikran V. Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure
cc: Triangle Environmental, Inc.

Effluent Toxicity Report Form - Chronic Pass/Fail and Acute LC50 Date: 04/20/00

Facility: ALCALTEL NETWORK SYSTEMS NPDES#: NC0086126 Pipe#: 001 County: WAKE

Laboratory Performing Test: TRITEST, INC.

X _____
Signature of Operator in Responsible Charge

X _____
Signature of Laboratory Supervisor

Comments: _____

* PASSED: 0.00% Reduction *

Work Order: 0003-01181

MAIL ORIGINAL TO:

Environmental Sciences Branch
Div. of Environmental Management
N.C. Dept. of EHNR
4401 Reedy Creek Road
Raleigh, North Carolina 27607-6445

North Carolina Ceriodaphnia
Chronic Pass/Fail Reproduction Toxicity Test

CONTROL ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12
# Young Produced	31	28	29	20	25	23	21	30	17	12	28	26
Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L	L	L

Effluent %: 6.1%

TREATMENT 2 ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12
# Young Produced	26	23	25	31	9	28	26	28	27	18	26	23
Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L	L	L

Chronic Test Results
Calculated t =
Tabular t =
% Reduction = _____

% Mortality	Avg.Reprod.
0.00 Control	24.17 Control
0.00 Treatment 2	24.17 Treatment 2

Control CV 23.858%

% control orgs producing 3rd brood 100%

PASS	FAIL
X	
Check One	

pH	1st sample start	1st sample end	1st sample start	1st sample end	2nd sample start	2nd sample end
Control	7.9	8.0	7.7	7.8	7.8	8.1
Treatment 2	8.0	8.0	8.0	8.1	7.9	8.1

D.O.	1st sample start	1st sample end	1st sample start	1st sample end	2nd sample start	2nd sample end
Control	8.0	8.1	8.0	8.1	8.1	8.2
Treatment 2	8.0	8.0	7.9	7.9	8.0	8.1

Complete This For Either Test
Test Start Date: 04/12/00
Collection (Start) Date
Sample 1: 04/10/00 Sample 2: 04/13/00
Sample Type/Duration

	Grab	Comp.	Duration
Sample 1		X	24 hrs
Sample 2		X	24 hrs

DILUT	1st SAMP	2nd P/F SAMP
Hardness (mg/l)	49	
Spec. Cond. (µmhos)	190	195	195
Chlorine (mg/l)		<0.1	<0.1
Sample temp. at receipt (°C)		2.2	2.0

LC50/Acute Toxicity Test

(Mortality expressed as %, combining replicates)

%	%	%	%	%	%	%	%	%	%	Concentration
%	%	%	%	%	%	%	%	%	%	Mortality

Note: Please Complete This Section Also

LC50 = _____ %
95% Confidence Limits
_____ % -- _____ %

Method of Determination
Moving Average __ Probit __
Spearman Karber __ Other ____

	pH start/end		D.O. start/end	
Control				
High Conc.				

Organism Tested: Ceriodaphnia dubia Duration(hrs): _____

Copied from DEM form AT-1 (3/87) rev. 11/95 (DUBIA ver. 4.32)

2Q of 2000

EFFLUENT

NPDES PERMIT NO. NC0086126 DISCHARGE NO. ____ MONTH April YEAR 2000
FACILITY NAME ALCATEL CLASS ____ COUNTY WAKE
OPERATOR IN RESPONSIBLE CHARGE (ORC) D. KABBENDJIAN GRADE III PHONE (919) 850-624
CERTIFIED LABORATORIES (1) TRI TEST (2) ____
CHECK BOX IF ORC HAS CHANGED ☐ PERSON(S) COLLECTING SAMPLES ____

Mail ORIGINAL and ONE COPY to:
ATTN: CENTRAL FILES
DIV. OF ENVIRONMENTAL MANAGEMENT
DEHNR
P.O. BOX 29535
RALEIGH, NC 27626-0535

Dikran V Kabbendjian 5/8/2000
(SIGNATURE OF OPERATOR IN RESPONSIBLE CHARGE) DATE
BY THIS SIGNATURE, I CERTIFY THAT THIS REPORT IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE	Operator Arrival Time: 2400 Clock	Operator Time On Site	ORC On Site? •	50050 FLOW EFF ☐ INF ☐ DAILY RATE	Enter Parameter Code Above Name and Units Below			00530 Total suspendy solids mg/l	01042 Copper mg/l	01051 Lead mg/l								
	HRS	HRS	Y/N	MGD														
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11					X													
12																		
13																		
14																		
15					X													
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27																		
28																		
29																		
30																		
31																		
AVERAGE				0.05														
MAXIMUM																		
MINIMUM																		
Comp. (C) / Grab (G)								G	G	G								
Monthly Limit																		

Chronic TOXICITY PASS X

DEM Form MR-1.1
(Revised 12/94)

TRITEST, INC.

Bioassay Chain of Custody Form

Facility Name: ALCATEL

Address: 2912 Wake Forest Rd.
Raleigh, NC 27609

P.O. #:

Phone #: (919) 850-6248

Contact: D. Kabbendjian

County: Wake Outfall/ Pipe #: NPDES Permit #: NC 00 86126

%Effluent Dilution: Test Method: Chronic Tox

Sample Site Description: Remediation System Effluent

Sample Collector: Print > DIKRAN KABBENDJIAN

Signature > D Kabbendjian

Sample Type: **Composite:**

Date Started: 4/10/2000 Time: 10:00 AM or PM

Date Ended: 4/11/2000 Time: 10:00 AM or PM

Samples per Hour: 10 # Hours: 25

Grab:

Date: 4/11/2000 Time: AM or PM

Sample Volume: 2 - 1 liter bottle Chilled during Collection? yes

Method of Transportation to Lab:

Chain of Custody Release

Relinquished By	Date	Time	Received By	Date	Time
D Kabbendjian	4-11-00	11:20	[illegible]	4-11-00	11:20
[illegible]	4-11-00	1452	[illegible]	4-11-00	1450
[illegible]			[illegible]	4/11/00	1515

For Laboratory Use Only

Receiving Temperature: 2.2°C By: [illegible]

Number of Bottles: 2

0003-01181

Tritest, Inc. Phone 919-834-4984

(919) 834-4984 Fax (919) 834-6497

0003-01181

TRITEST, INC.

Bioassay Chain of Custody Form

Facility Name: ALCATEL

Address: 2912 Wake Forest Rd.
Raleigh NC 27609

P.O #:

Phone #: (919) 850-6248

Contact: D. Kabbendjian

County: Wake Outfall/ Pipe #: NPDES Permit #: NC0086126

%Effluent Dilution: Test Method: Chronic Tox

Sample Site Description: Remediation system effluent

Sample Collector: Print > DIKRAN KABBENDJIAN

Signature > D Kabbendjian

Sample Type: **Composite:**

Date Started: 4/13/00 Time: 820 AM or PM

Date Ended: 4/14/00 Time: 820 AM or PM

Samples per Hour: 18 # Hours: 24

Grab:

Date: Time: AM or PM

Sample Volume: 2 - 1 liter. Chilled during Collection? yes

Method of Transportation to Lab:

Chain of Custody Release

Relinquished By	Date	Time	Received By	Date	Time
D Kabbendjian	4-14-00	8:45	[illegible]	4-14-00	8:45
[illegible]	4-14-00	0950	[illegible]	4-14-00	0950
[illegible]	4-14-00	1005	S. Tremill	4-14-00	1005

For Laboratory Use Only

Receiving Temperature: 2.0 °C By: S Tremill

Residual Chlorine: Number of Bottles:

Address. 3909 Beryl Rd. - Raleigh, NC 27607 Phone(919) 834-4984 Fax (919) 834-6497

ALCATEL

2912 Wake Forest Road
Raleigh, NC 27609
(919) 850-6000

August 16, 2000

Environmental Sciences Branch
Div. of Environmental Management
NC DENR
4401 Reedy Creek Road
Raleigh, North Carolina 27607-6445

SUBJECT: Results of Chronic Toxicity Test for Third Quarter, 2000
NPDES Permit No. NC0086126
Alcatel
Raleigh, North Carolina

Enclosed you will find two copies of the Chronic Toxicity test results of water samples collected from the ground water treatment system located at 2912 Wake Forest Rd. Two twenty-four hour composite water samples were collected on July 25 and 28, 2000 from the Effluent sampling port of the system.

Treated ground water leaving the remediation system is discharged into eight injection wells on site in accordance with Non-Discharge Permit No. WQ0012221. The overflow is discharged under NPDES permit # NC0086126.

If you have any under questions, please contact me at (919) 850-6248.

Very truly yours,

Dikran Kabbendjian

Dikran V. Kabbendjian
Manager, Environmental Health
and Safety

Enclosure
cc: Triangle Environmental, Inc.

Effluent Toxicity Report Form - Chronic Pass/Fail and Acute LC50 Date: 08/03/00

Facility: ALCATEL NPDES#: NC0086126 Pipe#: County: WAKE

Laboratory Performing Test: WATER TECH AND CONTROLS INC

X _____
Signature of Operator in Responsible Charge

X _____
Signature of Laboratory Supervisor

Comments: _____

* PASSED: -3.21% Reduction *

Work Order: 07260047

MAIL ORIGINAL TO:

Environmental Sciences Branch
Div. of Water Quality
N.C. DENR
1621 Mail Service Center
Raleigh, North Carolina 27699-1621

North Carolina Ceriodaphnia
Chronic Pass/Fail Reproduction Toxicity Test

CONTROL ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12
# Young Produced	26	25	26	28	23	25	25	28	25	27	27	27
Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L	L	L

Effluent %: 6.1%

TREATMENT 2 ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12
# Young Produced	29	22	27	28	27	28	28	25	24	27	30	27
Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L	L	L

Chronic Test Results
Calculated t = -1.086
Tabular t = 2.508
% Reduction = -3.21

% Mortality	Avg.Reprod.
0.00 Control	26.00 Control
0.00 Treatment 2	26.83 Treatment 2

Control CV 5.681%

% control orgs producing 3rd brood 100%

PASS	FAIL
X	
Check One	

pH	1st sample start	1st sample end	1st sample start	1st sample end	2nd sample start	2nd sample end
Control	7.96	8.02	7.97	8.03	7.99	8.09
Treatment 2	7.87	7.96	7.89	7.92	7.87	7.94

D.O.	1st sample start	1st sample end	1st sample start	1st sample end	2nd sample start	2nd sample end
Control	7.40	7.37	7.52	7.43	7.57	7.49
Treatment 2	7.44	7.30	7.46	7.34	8.10	7.94

Complete This For Either Test
Test Start Date: 07/26/00
Collection (Start) Date
Sample 1: 07/24/00 Sample 2: 07/27/00
Sample Type/Duration

	Grab	Comp.	Duration
Sample 1		X	24 hrs
Sample 2		X	24 hrs

DILUT	1st SAMP	2nd P/F SAMP
Hardness (mg/l)	47	
Spec. Cond. (µmhos)	183	205	200
Chlorine (mg/l)		<0.1	<0.1
Sample temp. at receipt (°C)		0.7	2.0

LC50/Acute Toxicity Test
(Mortality expressed as %, combining replicates)

%	%	%	%	%	%	%	%	%	%	Concentration
%	%	%	%	%	%	%	%	%	%	Mortality

Note: Please Complete This Section Also

LC50 = _____%
95% Confidence Limits
_____% -- _____%

Method of Determination
Moving Average __ Probit __
Spearman Karber __ Other ____

	pH start	pH end		D.O. start	D.O. end
			Control		
			High Conc.		

Organism Tested: Ceriodaphnia dubia Duration(hrs): _____

Copied from DWQ form AT-1 (3/87) rev. 11/95 (DUBIA ver. 4.41)

072600 47

TRITEST, INC.

Bioassay Chain of Custody Form

Facility Name: ALCATEL

Address: 2912 Wake Forest Rd.
Raleigh NC 27609

P.O. #:

Phone #: (919) 8506248

Contact: D. Kabbendjian

County: Wake

Outfall/ Pipe #:

NPDES Permit #: NC0086126

% Effluent Dilution:

Test Method: Chronic Tox.

Sample Site Description: Remediation System Effluent

Sample Collector: Print > NEAL BLACKMON

Signature > Neal Blackmon

Sample Type: **Composite:**

Date Started: 7/24/00 Time: 0:00 AM or PM

Date Ended: 7/25/00 Time: 0100 AM or PM

Samples per Hour: ~~AF~~ 12 # Hours 24

Grab:

Date: Time: AM or PM

Sample Volume: 2 1-liter bottles Chilled during Collection? yes

Method of Transportation to Lab:

Chain of Custody Release

Relinquished By	Date	Time	Received By	Date	Time
Neal Blackmon	7/25/00	10:10AM	[illegible]		
[illegible]	7-25-00	1327	[illegible]	7/25	1327
[illegible]	7/25/00	1345	[illegible]	7/25/00	1350

For Laboratory Use On

Receiving Temperature: 0.7° By: [illegible]

Residual Chlorine: Number of Bottles:

Address: 3909 Beryl Rd.- Raleigh, NC 27607 Phone(919) 834-4984 Fax (919) 834-6497

TRITEST, INC. 07290008

Bioassay Chain of Custody Form

Facility Name: Alcatel Network Systems Phone # (919) 850-6248

Address: 2912 Wake Forest Rd Contact: Dikran Kabbendjian
Raleigh NC 27609

County: WAKE Outfall/ Pipe #

NPDES Permit #: NC0086126

Test Method: Chronic Toxicity - Ceriodephnia Chronic Effluent Bioassay Procedure

Sample Site Description: System Effluent

Sample Collector: Print > DIKRAN KABBENDJIAN

Signature > D Kabbendjian

Sample Type: **Composite:**
Date Started: 7/27/00 Time: 815
Date Ended: 7/28/00 Time: 815
Samples per Hour: 12 # Hours: 24
Grab:
Date: Time:

Sample Volume: 2 1-ltr bottles Chilled during Collection? Yes

Method of Transportation to Lab:

Chain of Custody Release

Relinquished By	Date	Time	Received By
Dikran Kabbendjian	7-28-00	8:30	[illegible]
[illegible]	7-28-00	12[illegible]	[illegible]
[illegible]	7-28-00	1235	[illegible]

For Laboratory Use Only

Received by: M. [illegible]
Date 7/29 Time 11:3[illegible]
Temp: 2.[illegible]

Receiving Temperature: 0.9°C By: [illegible]

Residual Chlorine: Number of Bottles: 2

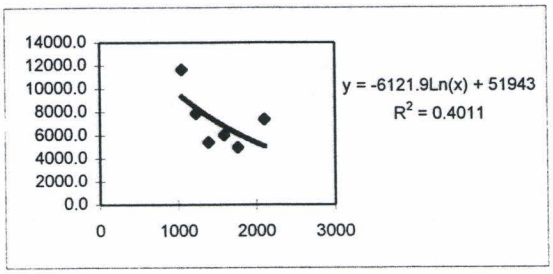
Addres: 3909 Beryl Rd.- Raleigh, NC 27607 Phone(919) 834 -4984 Fax (919) 834-6497

APPENDIX C

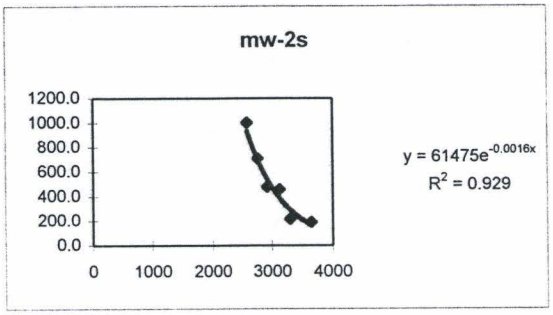
COEFFICIENT OF DETERMINATION TREND RESULTS

Well	Date Sampled	Time (days)	Influent Concentration
MW-2d	11/29/94	0	4940.0
	09/13/96	644	1985.3
	04/10/97	851	3471.6
	10/30/97	1051	11670.0
	04/28/98	1229	7900.0
	10/08/98	1389	5440.0
	04/28/99	1589	6041.0
	10/28/99	1769	4986.3
	10/12/00	2113	7400

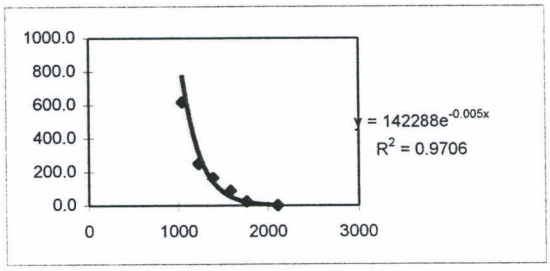
Trend and coefficient



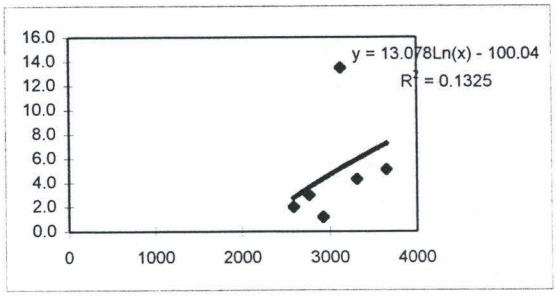
Well	Date Sampled	Time (days)	Influent Concentration
MW-2s	08/21/90	0	153.0
	02/08/93	887	167.0
	09/19/93	1108	109.8
	08/30/94	1449	178.0
	11/30/94	1539	65.4
	09/13/96	2182	430.8
	04/10/97	2389	3.6
	10/30/97	2589	1005.0
	04/28/98	2767	713.0
	10/08/98	2927	479.0
	04/28/99	3127	460.0
	10/28/99	3307	219.7
	10/12/00	3651	192.91



Well	Date Sampled	Time (days)	Influent Concentration
MW-3d	11/30/94	0	BDL
	09/13/96	643	BDL
	04/10/97	850	263.3
	10/30/97	1050	619.0
	04/28/98	1228	252.0
	10/08/98	1388	168.0
	04/28/99	1588	88.8
	10/27/99	1767	25.3
	10/12/00	2112	2.7

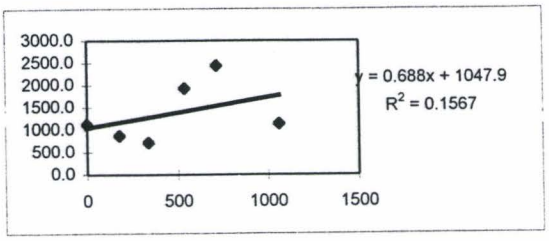


Well	Date Sampled	Time (days)	Influent Concentration
MW-3s	08/21/90	0	10.0
	02/08/93	887	BDL
	09/19/93	1108	12.2
	08/30/94	1449	BDL
	11/30/94	1539	2.7
	09/13/96	2182	4.8
	04/10/97	2389	5.3
	10/30/97	2589	2.0
	04/28/98	2767	3.0
	10/08/98	2927	1.2
	04/28/99	3127	13.5
	10/28/99	3307	4.3
	10/12/00	3651	5.1

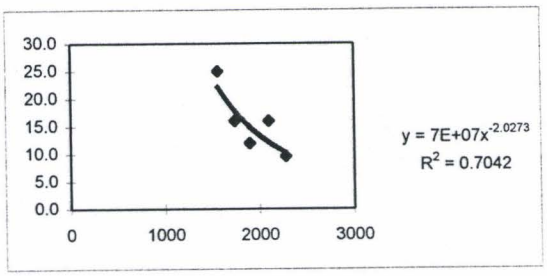


Well	Date Sampled	Time (days)	Influent Concentration
MW-4dd	10/31/97	0	1127.0
	04/28/98	178	874.0
	10/08/98	338	726.0
	04/28/99	538	1932.2
	10/27/99	717	2440.0
	10/12/00	1062	1137.5

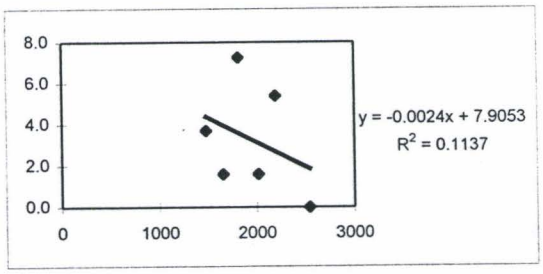
Trend and coefficient



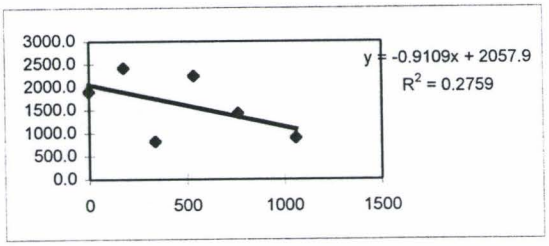
Well	Date Sampled	Time (days)	Influent Concentration
MW-11s	06/27/93	0	270.0
	09/19/93	82	237.4
	08/30/94	423	130.0
	11/30/94	513	120.0
	09/13/96	1156	120.1
	04/10/97	1363	7.8
	10/31/97	1564	25.0
	04/28/98	1741	16.0
	10/07/98	1900	12.0
	04/27/99	2100	16.0
	10/27/99	2280	9.6



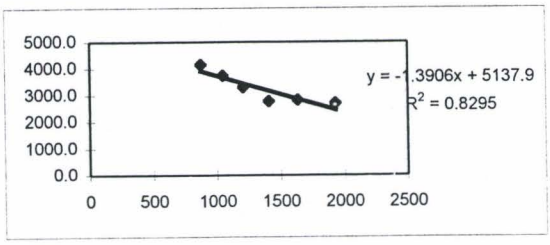
Well	Date Sampled	Time (days)	Influent Concentration
MW-12s	09/19/93	0	19.6
	08/30/94	341	BDL
	11/30/94	431	27.7
	09/13/96	1074	1.1
	04/10/97	1281	9.1
	10/30/97	1481	3.7
	04/28/98	1659	1.6
	10/08/98	1819	7.3
	04/28/99	2019	1.6
	10/28/99	2199	5.4
	10/12/00	2543	BDL



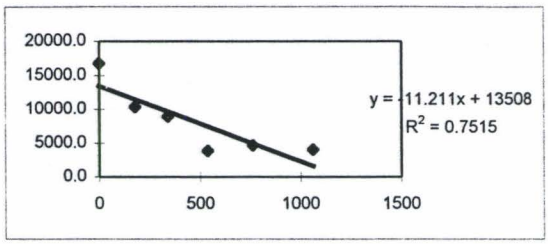
Well	Date Sampled	Time (days)	Influent Concentration
MW-13d	10/31/97	0	1902.0
	04/27/98	177	2419.0
	10/07/98	337	820.2
	04/27/99	537	2246.0
	12/14/99	764	1438.4
	10/11/00	1061	902.1



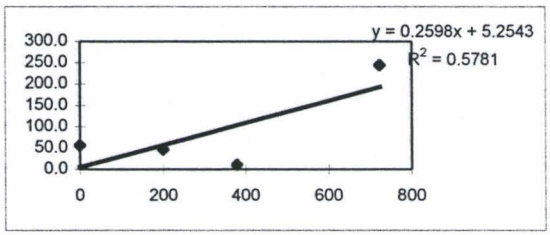
Well	Date Sampled	Time (days)	Influent Concentration
MW-13s	05/28/95	0	2390.0
	09/13/96	465	3609.8
	04/10/97	672	3334.6
	10/31/97	873	4160.0
	04/27/98	1049	3755.0
	10/07/98	1209	3318.0
	04/27/99	1409	2781.8
	12/14/99	1636	2833.0
	10/11/00	1933	2703.5



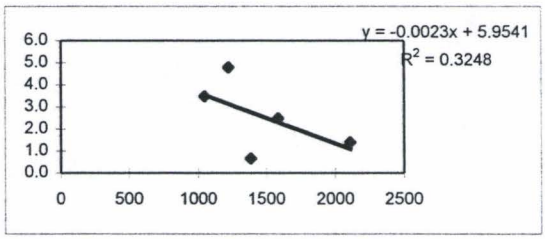
Well	Date Sampled	Time (days)	Influent Concentration	Trend and coefficient
MW-14d	10/31/97	0	16810.0	
	04/28/98	178	10380.0	
	10/08/98	338	8962.0	
	04/28/99	538	3873.1	
	12/14/99	764	4695.7	
	10/11/00	1061	4048.2	



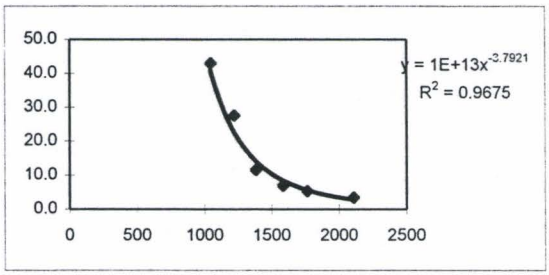
MW-3dk	10/08/98	0	56.7
	04/28/99	200	47.1
	10/27/99	379	11.1
	10/12/00	724	244.6



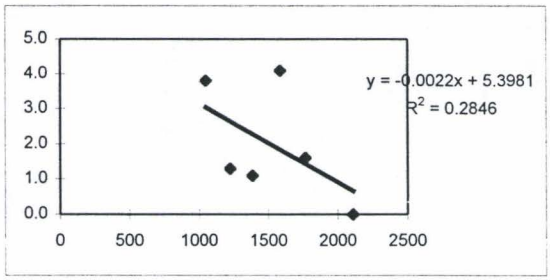
MW-5sk	12/01/94	0	8.1
	09/13/96	642	122.6
	04/10/97	849	16.0
	10/30/97	1049	3.5
	04/27/98	1226	4.8
	10/08/98	1387	0.7
	04/28/99	1587	2.5
	10/12/00	2111	1.4



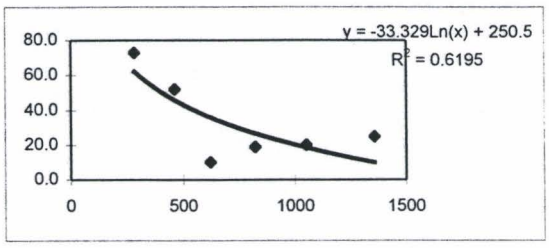
MW-9dk	12/01/94	0	248.0
	09/13/96	642	358.5
	01/14/97	763	37.3
	04/10/97	849	58.7
	10/30/97	1049	43.0
	04/27/98	1226	27.6
	10/08/98	1387	11.6
	04/28/99	1587	7.0
	10/27/99	1766	5.4
	10/12/00	2111	3.45



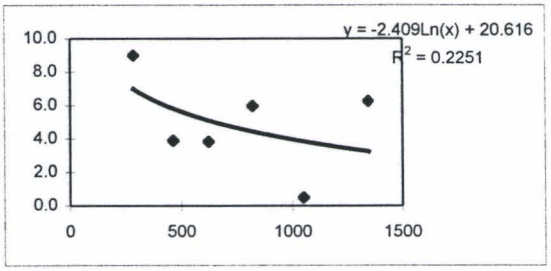
MW-9sk	12/01/94	0	BDL
	09/13/96	642	BDL
	01/14/97	763	BDL
	04/10/97	849	508.8
	10/30/97	1049	3.8
	04/27/98	1226	1.3
	10/08/98	1387	1.1
	04/28/99	1587	4.1
	10/27/99	1766	1.6
	10/12/00	2111	BDL



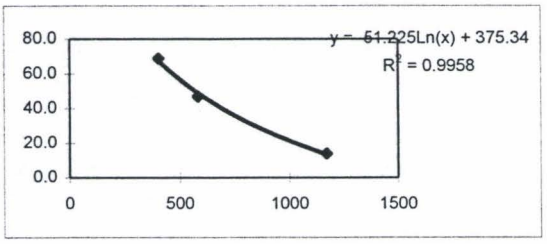
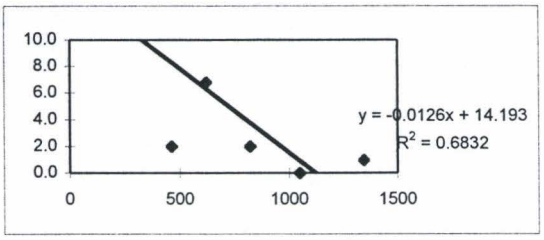
Well	Date Sampled	Time (days)	Influent Concentration	Trend and coefficient
CRW-1	01/14/97	0	BDL	
	04/10/97	86	13.1	
	10/29/97	285	73.0	
	04/27/98	463	52.0	
	10/07/98	623	10.3	
	04/27/99	823	19.1	
	12/14/99	1050	20.1	
	10/23/00	1359	25.04	



CRW-5	01/14/97	0	185.6
	04/10/97	86	120.7
	10/29/97	285	9.0
	04/28/98	464	3.9
	10/07/98	623	3.9
	04/27/99	823	6.0
	12/14/99	1050	0.5
	10/11/00	1347	6.27



CRW-9	09/13/96	0	138.3
	01/14/97	121	338.0
	04/10/97	207	132.5
	10/29/97	406	69.0
	04/27/98	584	47.0
	04/27/99	944	
	12/14/99	1171	14.1



CRW-11	01/14/97	0	19.0
	04/27/98	463	2.0
	10/07/98	623	6.8
	04/27/99	823	2.0
	12/14/99	1050	BDL
	10/11/00	1347	0.95