#25097

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Refs. Missing

4/7/92 SAS
NFRAP
Contamination in upstream samples. Cannot attribute contamination to Landfill

WPB/SAS
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MAR 20 1992
EPA - REGION IV
ATLANTA, GA

March 20, 1992

Mr. A. R. Hanke, Chief
Site Assessment Section
U.S. EPA Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Re: Work Assignment C04119 - Task 5 - Preliminary Site Inspection Prioritization Letter Report - Aquadome Landfill, Decatur, Morgan County, Alabama
Document Control No: C04119-SIPS-LC-046

Dear Al:

Please find below the Preliminary Site Inspection Prioritization (SIP) letter report for the Aquadome Landfill (the facility), Decatur, Morgan County, Alabama. This report has been developed to fulfill the requirements for Task 5 of TES VIII Work Assignment C04119. This submittal includes a site map, supporting reference materials, and a CERCLA Eligibility Form.

The facility was a municipal garbage dump from 1944-1964 and is located southeast of the intersection of 5th Avenue and 8th Street in southwest Decatur, Alabama (Ref. 1). The city of Decatur has been the owner of this 40-acre property since it opened in 1944 (Ref. 2). Presently, Brookhaven Middle School and Aquadome Park are located on top of the filled and vegetated landfill (Refs. 3, p. 1; 4, p. 1). The Brookhaven Middle School and Aquadome Park include several athletic fields, a pool, recreational and school buildings, parking lots, and other open areas (Refs. 3, p. 1; 5, p. 3; 6). During a Site Sampling Investigation (SSI) in April 1985, the surface area around the athletic fields was covered with grass. Trash and leachate were present along the slopes of a centrally-located drainage ditch (Refs. 3, p. 1; 7, p. 2). However, during an inspection in December 1987 by an EPA official, it was observed that no leachate seeps were present, the entire ditch was covered with grass, and glass was seen throughout the slopes (Ref. 4, p. 1). According to photographs taken during the April 1985 SSI, the drainage ditch is partially lined with concrete. Aside from the partially lined areas of this ditch and leachate seep areas, the slopes of the ditch are covered with grass (Refs. 4; 7, p. 2). The ditch is fed by at least one alleged spring flowing into it from an underground pipe just inside the eastern side of the property (Refs. 3, p. 1; 7, p. 6). The ditch flows into Dry Branch approximately 0.25 mile northwest from the point of exit off the facility (Ref. 1). During the SSI in April 1985, it was observed that areas around the facility seemed to be experiencing differential

settlement which was causing depressions to form in parking lots, sidewalks, and around the school. Standing water was present in these depressions after rainfall events (Ref. 7, pp. 1, 2). Other SSI observations included red stains on the concrete slope of the drainage ditch and surface water with a foamy, oily appearance (Ref. 7, p. 3). A City of Decatur Sanitation Department employee also noted that differential settlement was causing damage to the tennis courts and the school building (Ref. 8).

There is no information in the file material to indicate that a cap was installed at the landfill when it was closed in 1964 (Refs. 3, p. 2; 5, p. 3). Brookhaven Middle School and the Aquadome recreational building were built in approximately 1969 (Ref. 3, p. 2). Gas monitoring systems were installed in both buildings shortly after completion, although it is unclear who installed these systems (Ref. 3, p. 2). These gas monitoring systems detected methane gas as high as 8% of the lower explosive limit (LEL) outside and 2% of the LEL inside the school (Refs. 9, pp. 1, 3, 5). The State of Alabama Health Department periodically samples four monitoring wells at the facility (Ref. 11, pp. 1-17). These monitoring wells, ranging in depth from 25.5 to 38.0 feet below land surface (bls), were installed at the closed landfill for the city of Decatur in 1981 by Testing, Incorporated (Ref. 12). No RCRA action has been undertaken at the facility (Ref. 13).

The types and quantities of wastes placed in the facility are unknown (Ref. 3, p. 2). However, there is evidence that industries such as Fruehauf, Wolverine, Monsanto, and Prestolite may have sent their wastes to the City of Decatur landfills (Ref. 14, p. 1). Open dumping and burning of wastes took place at the facility until the dump was converted to a landfill in the early 1960s (Ref. 3, p. 2).

Some of the analytical data presented in this report include data with "J" (estimated) values (Ref. 3 and 18). At the time sampling was completed in 1985 and 1986, data qualifiers were not provided automatically with the raw data. If an HRS package is to be completed for the facility, the data qualifiers would need to be obtained from the EPA Environmental Services Division, Athens, Georgia.

Analysis of samples collected August 11, 1982, and March 10, 1981, at the facility by the Alabama Health Department, Division of Solid and Hazardous Waste, detected trans-1,2-dichloroethene, tetrachloroethene, and trichloroethene in surface water collected from the central ditch and in groundwater (Ref. 11, pp. 3, 5, 12, 16). EPA Region 4 Field Investigation Team (FIT 4) conducted a Site Sampling Investigation (SSI) at the facility during the week of April 22, 1985 (Ref. 3, p. 1). A total of 17 samples, including 3 surface water samples, 3 leachate samples, 4 groundwater samples, 1 subsurface soil sample, 3 sediment samples, and 3 sediment samples collected at leachate locations, were collected during the SSI (Ref. 3, p. 17, Table 1). Levels of several inorganic analytes, including arsenic (14,000 ug/kg) and silver (7,700J ug/kg) were highest in the composite subsurface soil sample (AD-A1S) (Ref. 3, p. 18, Table 2). No subsurface soil background sample was collected during this investigation. One leachate liquid

sample, AD-L4-7W, contained arsenic (31 ug/l, over 7 times the detection limit of AD-LI-4W, 4U ug/l), silver (18J ug/l, over 4 times the detection limit of AD-LI-4W, 4UJ ug/l), and nickel (53 ug/l, at 10 times the detection limit of AD-LI-4W, 5U ug/l). Compared to background levels in AD-MW-3, groundwater samples contained elevated levels of arsenic, chromium, copper, and zinc (Ref. 3, p. 22, Table 6). Organic analysis indicated 14 organic compounds were present at detectable concentrations in an upstream sediment sample, AD-US-1S. Sediment samples AD-L1-4S, AD-L3-6S, and AD-L2-5S contained few or none of those 14 organic substances (Ref. 3, pp. 19-22, Tables 3, 4, 5). Sample AD-L2-5S contained dieldrin and chlordane, but far less than the level detected in AD-US-1S (Ref. 3, p. 22, Table 6). In summary, the FIT SSI of 1985 sample analyses revealed that several inorganic analytes were detected upstream and in onsite subsurface soil. Arsenic, silver, trans-1,2-dichloroethene, and PCB 1254 (Aroclor) were detected only onsite (Ref. 3, pp. 18, 19, 21, Tables 2, 3, 5).

During the week of December 10, 1986, a Site Inspection (SI) was conducted at the facility by the EPA Region 4 at the request of the Emergency Response Branch (Ref. 18, p. 1). The primary objective was to determine if a direct contact hazard existed at the school or park since the facility is highly populated at times. A secondary objective was to determine if ground water contamination existed (Ref. 18, pp. 1, 2). A total of 15 samples were collected, including 3 surface water samples, 2 upstream sediment samples, 2 leachate samples, 4 sediment samples at leachate locations, and 4 groundwater samples (Ref. 18, p. 2). Inorganic analyses of sediment and leachate samples indicated chromium, copper, and nickel were present above the detection limits of AD-L1 (Ref. 18, pp. 13, 15, Tables 3, 5). Sample AD-L3 contained copper (93,000 mg/kg, over 4,400 times the concentration in the upstream sediment sample AD-UDS, 21 mg/kg). Groundwater sample AD-MW3 contained chromium at an elevated level with AD-MW4 used as the background. AD-MW1 contained a trace of cyanide (Ref. 18, p. 3, Table 13). Sample AD-UDS contained detectable concentrations of chromium, copper, cyanide, lead, nickel, and zinc (Ref. 18, p. 15, Table 5). Sediment samples did contain organic constituents that were not found upstream, but many of these were "J" (estimated) and "JN" (estimated and presumptive evidence) values (Ref. 18, p. 14, Table 4). Bis(2-ethylhexyl)phthalate was detected in leachate liquid sample AD-L-3W (Ref. 18, p. 12, Table 2). Organic analyses of water samples indicated detectable levels of dieldrin, benzene, toluene, and tetrachloroethene in upstream samples. Leachate liquid samples contained detectable concentrations of various organic constituents including bis(2-ethylhexyl)phthalate, naphthalene, trichloroethene, tetrachloroethene, and toluene. Organic analyses of groundwater showed traces of various organic constituents including vinyl chloride, trans-1,2-dichloroethene, and chlorobenzene (Ref. 18, p. 12, Table 2).

The facility lies within the Tennessee Valley district of the Highland Rim physiographic province in the northwest section of Morgan County, Alabama (Ref. 19). The area is typically characterized by undulating to gently rolling topography. Elevations generally range from 556 to 670 feet above mean sea level (Ref. 20, pp. 6, 8, 9). The average annual temperature is

approximately 59°F, and the mean annual precipitation is approximately 53 inches per year (Ref. 21, pp. 20, 21).

The soils in the site vicinity are composed of a combination of residuum, alluvium, and colluvium which collectively are termed regolith. The soils are predominantly the result of in-place chemical weathering (residuum) of the Tuscumbia Limestone. However, near local streams and rivers, the soils are composed predominantly of younger alluvial sediments (Ref. 20, p. 6). The unconsolidated regolith consists predominantly of clay, silt, and chert gravel. The thickness of the regolith within the Decatur area is approximately 20 feet (Ref. 23, pp. 5, 76-80).

Geologic units underlying the facility include, in descending stratigraphic order, the Tuscumbia Limestone and Fort Payne Chert, both of Mississippian age, and the Chattanooga Shale of Devonian age (Ref. 22). The Tuscumbia Limestone is composed principally of bedded bioclastic limestone. Locally it contains nodules of bluish gray chert (Ref. 23, pp. 19, 20). The thickness of the Tuscumbia Limestone ranges from 66 to 73 feet in the Decatur area (Ref. 23, pp. 5, 76-80). The Fort Payne Chert underlies the Tuscumbia Limestone and is divided into three main units. The uppermost unit of the Fort Payne is lithologically similar to the Tuscumbia; however, the limestone in the Fort Payne was chemically precipitated and is much finer-grained than the clastic deposit of the Tuscumbia. The middle unit of the Fort Payne is classified as very fine-grained silicified limestone, and the lowest unit is a very fine-grained, partly silicified, partly calcareous dolomite and chert (Ref. 23, pp. 14, 15). The thickness of the Fort Payne Chert ranges from 193 to 213 feet in the Decatur area (Ref. 23, pp. 5, 76-80). The Chattanooga Shale underlies the Fort Payne Chert and is composed of dark gray fissile shale and two thin beds of poorly-sorted, calcite-cemented sandstone (Ref. 23, p.13). The thickness of the Chattanooga Shale ranges from 4 to 14 feet in Morgan County and locally averages 7 feet (Ref. 23, pp. 5, 13, 76-80). Karst topographic features (sinkholes) are evident within the Decatur area (Refs. 1; 24, p. 13, plate 1).

Groundwater occurs within the pore spaces of the unconsolidated regolith and within solutionally-enlarged fractures of the Tuscumbia Limestone and Fort Payne Chert. The saturated portion of the regolith forms the water-table or regolith aquifer, and the Tuscumbia and Fort Payne formations make up the Tuscumbia-Fort Payne aquifer. Precipitation percolates through the regolith and recharges the underlying aquifer (Ref. 24, pp. 13, 14). Because of this fact, the two aquifers can be considered hydraulically interconnected. Groundwater flow within the regolith aquifer is estimated to conform to local topography, flowing from high topographic areas to nearby streams. The Tuscumbia-Fort Payne aquifer is the major aquifer underlying the area, supplying water for public use. The Chattanooga Shale acts as the lower confining unit for this aquifer (Refs. 22, p. 13; 24, pp. 13, 14). Areas of high recharge for the Tuscumbia-Fort Payne aquifer are highly susceptible to contamination from the overlying regolith aquifer, especially areas that exhibit sinkhole development (Refs. 1; 24, pp. 17, 18, plate 1). Based on

water levels in onsite monitoring wells, the water table occurs at levels ranging from 3.6 to 17.9 feet bls beneath the facility (Refs. 3, p. 24; 25, pp. 2, 3)

At the time the Site Inspection Report was completed in April 1985, Willow Products (Willow), a metal fabricating company located within 1 mile of the facility, received drinking water from a groundwater well; however, Willow began buying drinking water from the Decatur City Utilities (DCU) about five years ago (Refs. 3, Appendix C, p. 3; 18, p. 2; 26). Residents not served by the DCU receive their drinking water from private wells (Ref. 27). Based upon a house count on a topographic map, there are approximately 481 people served by private wells within a 4-mile radius of the facility (185 private wells x 2.6 persons/household) (Refs. 27; 28; 29; 30; 31; 32; 33).

The surface water drainage from the facility flows into the ditch onsite. After exiting the facility boundaries on the eastern side, flow continues in the ditch for about 0.25 mile northwest and enters Dry Branch. Dry Branch flows about 3 miles north and joins Wheeler Lake, a reservoir of the Tennessee River. The 15-mile surface water pathway from the facility is completed at approximately river mile 288 of the Tennessee River (Ref. 1). There are no surface water intakes along the 15-mile surface water pathway according to one reference (Ref. 34). According to a publication prepared by the Tennessee Valley Authority in 1990, there are several industrial intakes along the 15-mile surface water pathway; however, they all receive their drinking water from local municipal water systems (Refs. 35; 36; 37; 38; 39). School children have used the drainage ditch at the facility as a play area (Ref. 40). Industries, businesses, and residences within the Decatur corporate boundaries are on DCU water which receives its water solely from one intake on the Tennessee River. The DCU's water intake is 3-4 miles upstream from where Dry Branch flows into the Tennessee River at approximately river mile 306. The DCU serves approximately 19,448 connections x 2.6 persons/household for Morgan County, which gives a total of 50,565 (Ref. 26).

Fishing, boating, and swimming are allowed in Dry Branch and Wheeler Reservoir (Ref. 41). The Wheeler Reservoir supports commercial and sport fishing with an estimated annual commercial harvest of 1,400,000 pounds (Ref. 35). The state-designated threatened slackwater darter (Etheostoma boschungi) is found in the Swan Creek area of Wheeler Lake. A state-designated critical habitat of the spring pygmy sunfish (Elassoma sp.) is located in Wheeler Lake in the Decatur area (Ref. 42). Currently, there are no known species of mussels that are endangered, threatened, or have critical habitats in the Decatur area of Wheeler Lake due to the high silt content of the Tennessee River at this point (Ref. 43). Three other federally listed endangered species found in the area along Wheeler Reservoir are the gray bat (Myotis grisescens), the Indiana bat (Myotis sodalis), and the peregrine falcon (Falco peregrinus) (Ref. 35, pp. C-67, C-68).

Approximately 1,000 students attend Brookhaven Middle School during a school year (Ref. 29). Population values gathered through the Graphical Exposure Modeling System (GEMS) yielded

the following number of persons within 4 miles of the facility: 0.25 mile (648); 0.25-0.5 mile (1,945); 0.5-1 mile (5,939); 1-2 miles (23,794); 2-3 miles (5,005); and 3-4 miles (4,844) (Refs. 1; 32). As the GEMS did not yield a population for the 0-0.25 mile radius for Decatur several calculations were made in order to apportion the population to correspond to populated areas shown on the topographic map. Using the fact that the area within a 0.25 mile radius equals 0.25 of the area of a 0.5 mile radius circle, the population for 0.25-0.5 mile radius (2,593) was divided by 4 to yield the population of the 0-0.25 mile radius (648). Then the population of 0.25-0.5 mile radius (2,593) was reduced by the population of the 0-0.25 mile radius (648) as to not count the population twice. Thus, the figure for the 0.25-0.5 mile radius was reduced to 1,945.

The facility is easily accessible to the public since there is partial or no fencing around the property. There is no fence around the ditch where garbage and leachate are clearly visible (Ref. 7, Appendix A). The number of workers on the property is unknown (Ref. 29).

The main concern at the facility is direct contact with the leachate draining from the landfill into the ditch. Students may have been exposed to contaminants in the leachate liquid and sediment. Surface water and groundwater contaminants can be attributed to other sources in the area upgradient of the facility (Refs. 3, pp. 18-23, Tables 2-7; 18, p. 2).

If you have any questions or comments, do not hesitate to contact us at (404) 681-0933.

Sincerely,

DYNAMAC CORPORATION

Deborah Kristiansen
Site Manager

David L. Rusher
Regional Manager

DK/cm

Enclosures

cc: Ken Meyer, EPA Region IV Project Officer (w/o enclosures)
Deborah Vaughn-Wright, EPA Region IV Work Assignment Manager
Steve Kale, Dynamac TES Program Manager (w/o references)
Katharine Siders, Dynamac Work Assignment Manager (w/o references)
TES WA File

REFERENCES

1. U.S Geological Survey, 7.5 minute series Topographic Quadrangle Maps of Alabama: Jones Crossroads 1976, Tanner 1963 (Photorevised 1982), Trinity 1963 (PR 1974), Decatur 1975 (PR 1982), scale 1:24,000.

2. Joel Pugh, Engineer, Mabry Engineering for city of Decatur, Alabama, telephone conversation with Katharine Fenley, NUS Corporation, February 12, 1986. Subject: Aquadome Landfill ownership and operational history. 1 page.

3. Site Inspection Report narrative (25 pages) and attachments for Aquadome Landfill. Prepared by Katharine Fenley, April 2, 1986. Appendix A (CLP Data) 140 pages; Appendix B (Alabama Health Department Analytical Data) 13 pages; Appendix C (EPA Form 2070-13) 14 pages.

4. Chuck Pietrosewicz, Public Health Advisor, EPA Reg. IV, record of communications for Aquadome Landfill with attachment, December 12, 1981. Subject: Observations while touring the Aquadome Landfill site. 2 pages.

5. Mabry Engineering Company, Inc., Closure Plan for Old Decatur Landfill site, Vicinity Aquadome park - Brookhaven School, and attachment, Mabry Job No. 549-80, prepared for City of Decatur, Alabama (September 2, 1980). 3 pages. Annex A, 26 pages.

6. Photomap of Aquadome Park - Brookhaven School Site (Decatur, Alabama: Mabry Engineering, October, 1980), scale 1: 1,200. 1 map.

7. NUS Corporation Field Logbook No. F4-269 for Aquadome Landfill, TDD No. F4-8504-02. Documentation of facility reconnaissance, and attached photographs, April 16, 22-24, 1985. 27 pages. Appendix A (Photograph copies) 12 pages.

8. Harold Smith, Sanitation Director, Sanitation Department, Decatur, Alabama, telephone conversation with Paul Bierstine, EPS, September 25, 1984. Subject: Aquadome Landfill background information. 1 page. Attachment (telecon), 1 page.

9. Jack Honeycutt, Chief Solid Waste Section, Alabama Department of Environmental Management, letter to Joel Pugh, City Engineer, City of Decatur, Alabama, August 22, 1984. Subject: Gas monitoring system. 1 page.

10. Sample Analysis of Monitoring Wells and Gas Monitoring at Aquadome - Old Landfill, prepared by Mabry Engineering Co., Inc., for City of Decatur. Collection dates: April 14, 1983; September 30, 1983; March 30, 1984; October 23, 1984. 4 pages.

11. Alabama Health Department of Environmental Health Administration, Division of Solid and Hazardous Waste, Sample Analysis Aquadome Landfill. Collection dates: March 10, 1981; August 4, 1981; August 11, 1982; February 23, 1983. 17 pages.

12. Testing, Inc., Soil Boring Exploration, Old Landfill Closure (Aquadome Landfill), Job Number 81-41 for City of Decatur, Alabama (August 12, 1981). 5 pages.

13. Chip Stewart, Environmental Engineer, U.S. EPA Region IV, RCRA Permitting Section, telephone conversation with Deborah Kristiansen, Dynamac Corporation, December 9, 1991. Subject: RCRA status at Aquadome Landfill. 1 page.

14. Potential Hazardous Waste Site Preliminary Assessment (EPA Form 2070-12), Part I - Site Information and Assessment for Old Decatur Landfill Site/Fruehauf Corporation Sanitary Landfill with attachment. Filed by Donalea Dinsmore, Environmental Protection Systems, October 11, 1984. 2 pages. Attachment (EPS Form 3012-III) 2 pages.

15. A. S. Chipley, Director, Division of Solid Waste and Vector Control, Environmental Health Administration, letter to Paul Ridgeway, Plant Engineer, Prestolite Electrical Division, December 3, 1976. Subject: Disposing of electroplating sludge. 2 pages.

16. A. E. Nash, Plant Manager, Wolverine Tube Division, letter to Thomas Pardee, Environmental Health Director, Morgan County Health Department, October 25, 1972. Subject: Disposal of trichloroethylene. 1 page.

17. Alabama Health Department, Environmental Health Administration, Division of Solid and Hazardous Waste, Sample Analysis of Deer Springs SLF, zinc chromate collected from a partially buried drum, February 19, 1981. 1 page.

18. ESD, Project No. 87-069, "Site Inspection Report, Aquadome Site, Decatur, Alabama, December, 1986," narrative and attachment. 15 pages. Appendix A (CLP Analytical Data) 137 pages.

19. Alabama Geological Survey, Physiographic Regions of Alabama, Map 168, (Tuscaloosa, Alabama: 1975). 1 map.

20. U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of Morgan County, Alabama, (September, 1958). Pages 1, 6, 8, 9.

21. V. Jeff May and others, Hydrology of Area 21, Eastern Coal Province, Tennessee, Alabama, and Georgia, U.S. Geological Survey Water-Resources Investigations Open File Report 82-679, (Nashville, Tennessee: 1983). Page 20, Figure 2.6-1.

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23. Chester L. Dodson and Wiley F. Harris, Jr., Geology and Ground-Water Resources of Morgan County, Alabama, Geological Survey of Alabama Bulletin 76, (Tuscaloosa, Alabama: 1965). Pages 5, 12, 13-15, 17-21, 76-81.

24. C.R. Bossong and Wiley Fittakris, Geohydrology and Susceptibility of Major Aquifers to Surface Contamination in Alabama: Area 1, U.S. Geological Survey, Water-Resources Investigations Report 87-4068, (Tuscaloosa, Alabama: 1987). Pages 13, 14, 17, 18, Plate 1).

25. Record of Ground Water Elevations in Monitoring Wells at Aquadome Landfill. July 1981-April 1985, U.S. EPA Region 4, FIT files. Atlanta, Georgia. 4 pages.

26. Louie Reeves, Decatur City Utilities, telephone conversation and attachment with Deborah Kristiansen, Dynamac Corporation, December 12, 1991. Subject: Decatur City Utilities service area, connections, and water sources. 1 page. Attachments (five maps of Decatur, Alabama, water distribution system).

27. Don Sims, West Morgan County/East Lawrence County Water Authority, telephone conversation with Deborah Kristiansen, Dynamac Corporation, January 29, 1992. Subject: Service area of the West Morgan County/East Lawrence County Water Authority. 1 page.

28. U.S. Department of Commerce, Proof Copy of table generated for CPH-1: Summary Population and Housing Characteristics, issued by Bureau of the Census (April 1991). 1 page.

29. Angela Free, Chamber of Commerce, Decatur, Alabama, telephone conversation with Deborah Kristiansen, Dynamac Corporation, November 12, 1991. Subject: Brookhaven Middle School population and development in western Decatur in the past 20 years. 1 page.

30. David Nelson, Alabama Department of Public Health, Decatur, Alabama, telephone conversation with Deborah Kristiansen, Dynamac Corporation, January 28, 1992. Subject: Sources of drinking water for areas not served by Decatur City Utilities and sinkholes in Decatur, Alabama. 1 page.

31. Danny Moore, Alabama Geological Survey, telephone conversation with Deborah Kristiansen, Dynamac Corporation, January 29, 1992. Subject: Private wells in Decatur, Alabama. 1 page.

32. U.S. Environmental Protection Agency, Graphical Exposure Modeling System (GEMS) Data Base, compiled from U.S. Bureau of the Census data (1980). 1 page.

33. Tuck Stone, Wheeler National Wildlife Refuge, telephone conversation with Deborah Kristiansen, Dynamac Corporation, December 18, 1991. Subject: Drinking water source for the Wheeler National Wildlife Refuge. 1 page.

34. James Dailey, Alabama Department of Environmental Management, Water Supply Department, telephone conversation with Deborah Kristiansen, Dynamac Corporation, December 3, 1991. Subject: Surface water intakes on the Tennessee River downstream of Decatur, Alabama to river mile 288 and private wells in Decatur, Alabama. 1 page.

35. Tennessee Valley Authority, Water Resources Division, Water Resources Issues Analysis: Wheeler Reservoir Watershed Region, (Chattanooga, Tennessee: February 1990). Pages 4, 12, 13, C-67, C-68.

36. James, Boyd, 3M Company, telephone conversation with Deborah Kristiansen, Dynamac Corporation, March 16, 1992. Subject: Source of drinking water for 3M Company employees. 1 page.

37. Jack Brellenthin, TVA-Browns Ferry Nuclear Plant, telephone conversation with Deborah Kristiansen, Dynamac Corporation, March 16, 1992. Subject: Source of drinking water for TVA-Browns Ferry Nuclear plant employees. 1 page.

38. Charles Chen, Monsanto Textile Company, telephone conversation with Deborah Kristiansen, Dynamac Corporation, March 16, 1992. Subject: Source of drinking water for Monsanto Textile Company employees. 1 page.

39. Cindy Collier, Amoco Chemical Company, telephone conversation with Deborah Kristiansen, Dynamac Corporation, March 16, 1992. Subject: Source of drinking water for Amoco Company employees. 1 page.

40. Potential Hazardous Waste Site Preliminary Assessment (EPA Form 2070-12), Parts 1-3 for Aquadome, Decatur, Alabama. Filed by Paul Bierstine, EPS, September 25, 1984. 4 pages.

41. Teresa Stewart, Alabama Department of Public Health, telephone conversation with Deborah Kristiansen, Dynamac Corporation, December 12, 1991. Subject: Activities allowed in Wheeler Reservoir and Dry Branch in Decatur, Alabama. 1 page.

42. Doug Darr, Alabama Department of Conservation, Alabama Game and Fish Division, telephone conversation with Deborah Kristiansen, Dynamac Corporation, December 12, 1991. Subject: Endangered or threatened species and critical habitats of species along the Tennessee River downstream of Decatur, Alabama, to river mile 285. 1 page.

43. Don Wade, Tennessee Valley Authority, Water Resources Department, telephone conversation with Deborah Kristiansen, Dynamac Corporation, December, 13, 1991. Subject: Mussels in Wheeler Reservoir. 1 page.

DRAFT

CONFIDENTIAL

HAZARD RANKING SYSTEM PRELIMINARY SCORE FOR AQUADOME LANDFILL DECATUR, MORGAN COUNTY, ALABAMA

Pathways evaluated included groundwater, surface water, soil exposure, and air. The high score is due to an observed release of arsenic and chromium to the soil exposure pathway at Level II concentrations (Ref. 18. p. 15, Table 5). The toxicity of arsenic and chromium is 10,000. Sample locations in the Site Inspections did not adequately characterize the areal extent of contamination; therefore, a default value of 10 for waste quantity was used to score the soil exposure pathway.

S_{gw} = 8.32

S_{sw} = 4.26

S_{a} = 8.11

S_{se} = 100

OVERALL SCORE = 50.38

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

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TABLE 3-1
GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors	Maximum Value	Value Assigned	
Likelihood of Release to an Aquifer			
1. Observed Release	550	550	
2. Potential to Release			
2a. Containment	10	-	
2b. Net Precipitation	10	-	
2c. Depth to Aquifer	5	-	
2d. Travel Time	35	-	
2e. Potential to Release [lines 2a x (2b + 2c + 2d)]	500	-	
3. Likelihood of Release (higher of lines 1 and 2e)	550		550
Waste Characteristics			
4. Toxicity/Mobility	a	10,000	
5. Hazardous Waste Quantity	a	100	
6. Waste Characteristics	100		32
Targets			
7. Nearest Well	50	20	
8. Population			
8a. Level I Concentrations	b	-	
8b. Level II Concentrations	b	-	
8c. Potential Contamination	b	19	
8d. Population (lines 8a + 8b + 8c)	b	39	
9. Resources	5	-	
10. Wellhead Protection Area	20	-	
11. Targets (lines 7 + 8d + 9 + 10)	b		118
Ground Water Migration Score for an Aquifer			
12. Aquifer Score [(lines 3 x 6 x 11)/82,500][c]	100		8.32
Ground Water Migration Pathway Score			
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)[c]	100		8.32

[a] Maximum value applies to waste characteristics category.
[b] Maximum value not applicable.
[c] Do not round to nearest integer.

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

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TABLE 4-1
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

Factor Categories and Factors	Maximum Value	Value Assigned	
DRINKING WATER THREAT			
Likelihood of Release			
1. Observed Release	550	550	
2. Potential to Release by Overland Flow			
2a. Containment	10	-	
2b. Runoff	25	-	
2c. Distance to Surface Water	25	-	
2d. Potential to Release by Overland Flow (lines 2a x [2b + 2c])	500	-	
3. Potential to Release by Flood			
3a. Containment (Flood)	10	-	
3b. Flood Frequency	50	-	
3c. Potential to Release by Flood (lines 3a x 3b)	500	-	
4. Potential to Release (lines 2d + 3c, subject to a maximum of 500)	500	-	
5. Likelihood of Release (higher of lines 1 and 4)	550		550
Waste Characteristics			
6. Toxicity/Persistence	a	10,000	
7. Hazardous Waste Quantity	a	100	
8. Waste Characteristics	100		32
Targets			
9. Nearest Intake	50	-	
10. Population			
10a. Level I Concentrations	b	-	
10b. Level II Concentrations	b	-	
10c. Potential Contamination	b	0	
10d. Population (lines 10a + 10b + 10c)	b	0	
11. Resources	5	-	

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

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TABLE 4-1 (Continued)

Factor Categories and Factors	Maximum Value	Value Assigned	
DRINKING WATER THREAT (Concluded)			
Targets (Concluded)			
12. Targets (lines 9 + 10d + 11)	b		-
Drinking Water Threat Score			
13. Drinking Water Threat Score ([lines 5 x 8 x 12]/82,500, subject to a maximum of 100)	100		0
HUMAN FOOD CHAIN THREAT			
Likelihood of Release			
14. Likelihood of Release (same value as line 5)	550		550
Waste Characteristics			
15. Toxicity/Persistence/Bioaccumulation	a	5×10^8	
16. Hazardous Waste Quantity	a	100	
17. Waste Characteristics	1,000		320
Targets			
18. Food Chain Individual	50	-	
19. Population			
19a. Level I Concentrations	b	-	
19b. Level II Concentrations	b	-	
19c. Potential Human Food Chain Contamination	b	1	
19d. Population (lines 19a + 19b + 19c)	b	1	
20. Targets (lines 18 + 19d)	b		1
Human Food Chain Threat Score			
21. Human Food Chain Threat Score ([lines 14 x 17 x 20]/82,500, subject to a maximum of 100)	100		2.13

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

DRAFT

TABLE 4-1 (Continued)

Factor Categories and Factors	Maximum Value	Value Assigned	
ENVIRONMENTAL THREAT			
Likelihood of Release			
22. Likelihood of Release (same value as line 5)	550		550
Waste Characteristics			
23. Ecosystem Toxicity/Persistence/ Bioaccumulation	a	5×10^8	
24. Hazardous Waste Quantity	a	100	
25. Waste Characteristics	1,000		320
Targets			
26. Sensitive Environments			
26a. Level I Concentrations	b	-	
26b. Level II Concentrations	b	-	
26c. Potential Contamination	b	1	
26d. Sensitive Environments (lines 26a + 26b + 26c)	b	1	
27. Targets (value from line 26d)	b		1
Environmental Threat Score			
28. Environmental Threat Score ([lines 22 x 25 x 27]/82,500, subject to a maximum of 60)	60		2.13
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORE FOR A WATERSHED			
29. Watershed Score[c] (lines 13 + 21 + 28, subject to a maximum of 100)	100		4.26

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

DRAFT

TABLE 4-1 (Concluded)

Factor Categories and Factors	Maximum Value	Value Assigned
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORE		
30. Component Score (S_{of})* (highest score from line 29 for all watersheds evaluated, subject to a maximum of 100)	100	4.26

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

DRAFT

TABLE 5-1
SOIL EXPOSURE PATHWAY SCORESHEET

Factor Categories and Factors	Maximum Value	Value Assigned	
RESIDENT POPULATION THREAT			
Likelihood of Exposure			
1. Likelihood of Exposure	550		550
Waste Characteristics			
2. Toxicity	a	10,000	
3. Hazardous Waste Quantity	a	10	
4. Waste Characteristics	100		18
Targets			
5. Resident Individual	50	-	
6. Resident Population			
6a. Level I Concentrations	b	1,000	
6b. Level II Concentrations	b	45	
6c. Resident Population (lines 6a + 6b)	b	1045	
7. Workers	15	Unknown	
8. Resources	5	-	
9. Terrestrial Sensitive Environments	c	~~1,045~~	
10. Targets (lines 5 + 6c + 7 + 8 + 9)	b		1,045
Resident Population Threat Score			
11. Resident Population Threat (lines 1 x 4 x 10)	b		10,345,500
NEARBY POPULATION THREAT			
Likelihood of Exposure			
12. Attractiveness/Accessibility	100	-	
13. Area of Contamination	100	-	
14. Likelihood of Exposure	500		-
Waste Characteristics			
15. Toxicity	a	10,000	
16. Hazardous Waste Quantity	a	10	
17. Waste Characteristics	100		18

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

DRAFT

TABLE 5-1 (Concluded)

Factor Categories and Factors	Maximum Value	Value Assigned	
NEARBY POPULATION THREAT (Concluded)			
Targets			
18. Nearby Individual	1	-	
19. Population Within 1 Mile	b	-	
20. Targets (lines 18 + 19)	b		-
Nearby Population Threat Score			
21. Nearby Population Threat (lines 14 x 17 x 20)	b		2
SOIL EXPOSURE PATHWAY SCORE			
22. Soil Exposure Pathway Score[d] (S_s), (lines [11 + 21]/82,500, subject to a maximum of 100)	100		100

[a] Maximum value applies to waste characteristics category.
[b] Maximum value not applicable.
[c] No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to maximum of 60.
[d] Do not round to nearest integer.

Site Name: Aquadome Landfill

Location: Decatur, Morgan County, Alabama

DRAFT

TABLE 6-1
AIR MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors	Maximum Value	Value Assigned	
Likelihood of Release			
1. Observed Release	550	-	
2. Potential to Release			
2a. Gas Potential to Release	500	500	
2b. Particulate Potential to Release	500	-	
2c. Potential to Release (higher of lines 2a and 2b)	500	500	
3. Likelihood of Release (higher of lines 1 and 2c)	550		500
Waste Characteristics			
4. Toxicity/Mobility	a	100	
5. Hazardous Waste Quantity	a	100	
6. Waste Characteristics	100		6
Targets			
7. Nearest Individual	50	20	
8. Population			
8a. Level I Concentrations	b	-	
8b. Level II Concentrations	b	-	
8c. Potential Contamination	b	334	
8d. Population (lines 8a + 8b + 8c)	b	203	
9. Resources	5	-	
10. Sensitive Environments			
10a. Actual Contamination	c	-	
10b. Potential Contamination	c	0	
10c. Sensitive Environments (lines 10a + 10b)	c	0	
11. Targets (lines 7 + 8d + 9 + 10c)	b		223
Air Migration Pathway Score			
12. Pathway Score (S_a) [(lines 3 x 6 x 11)/82,500][d]	100		8.11

[a] Maximum value applies to waste characteristics category.
[b] Maximum value not applicable.
[c] No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to maximum of 60.
[d] Do not round to nearest integer.

OVERSIZED

DOCUMENT

REFERENCE NO. 2

NUS CORPORATION AND SUBSIDIARIES | **TELECON NOTE**

CONTROL NO:	DATE:	TIME:
080	2/12/86	11:45

DISTRIBUTION: TDD # F4-8504-02
AQUADOME FILE

BETWEEN:	OF:	PHONE:
JOEL PUGH	DECATUR CITY ENGINEER/~~MABRY ENGINEERING~~	(205) 353-~~5414~~ 3937

AND: KATHARINE FENLEY, NUS CORP.

DISCUSSION:

CALL WAS MADE TO DETERMINE OWNER AND OPERATOR OF AQUADOME LANDFILL DURING ACTIVE PERIOD (approx. 1944-1964). MR. PUGH TOLD ME THAT CITY OF DECATUR WAS THEN & STILL IS OWNER & OPERATOR. (MORGAN COUNTY WAS NOT INVOLVED IN DECATUR MUNICIPAL LANDFILLS UNTIL LATER, WHEN FLINT LANDFILL CAME INTO OPERATION.)

ALSO INQUIRED ABOUT POPULATION — MR. PUGH REPORTED THAT CITY OF DECATUR POPULATION WAS ESTIMATED IN 1985 TO BE 48,500.

2/12/86

ACTION ITEMS:

NUS 067 REVISED 0685

#29

REFERENCE NO. 3

R-586-4-6-11

SITE SAMPLING INVESTIGATION
AQUADOME SITE
MORGAN COUNTY
DECATUR, ALABAMA

Prepared Under
TDD NO. F4-8504-02
CONTRACT NO. 68-01-6699

Revision 0

FOR THE

AIR AND WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

APRIL 14, 1986

NUS CORPORATION
SUPERFUND DIVISION

Prepared By	Reviewed By	Approved By
Katharine Fenley	Philip Blackwell	Murray Warner, P.E.
Biologist	Assistant Regional Project Manager	Regional Project Manager

NOTICE

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SITE SAMPLING INVESTIGATION
AQUADOME SITE
DECATUR, ALABAMA

1.0 INTRODUCTION

The Region IV Field Investigation Team (FIT) of NUS Corporation conducted a site sampling investigation of the Aquadome Site during the week of April 22, 1985. The investigation was conducted at the request of the U.S. Environmental Protection Agency, Region IV, Air and Waste Management Division in accordance with Technical Directive Document (TDD) number F4-8504-02, under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA). Team members were Barbara Hansen Benoy, Project Manager, Phil Blackwell, Doug Munson, and Bob Donaghue of NUS Corporation.

2.0 SITE CHARACTERIZATION

2.1 Site Description

The Aquadome Site is located between 5th Avenue S.W. and 8th Street S.W. in Decatur, Alabama in Morgan County (Figure 1). The site is defined as an area of approximately 40 acres which was formerly a municipal landfill. Currently, Aquadome Park and Brookhaven Middle School are located on top of the fill area. Aquadome Park includes several athletic fields, a recreation building, and the Aquadome Pool. Current onsite facilities are depicted in Figure 2. Leachate from the landfill can be observed draining at several points into the drainage ditch which runs roughly west to east across the center of the property. In many areas, the leaching has caused erosion to occur, resulting in exposure of rubbish and discolored soil. North of the school, a section of concrete partially lines approximately 50 feet of the ditch. Water is normally flowing through this ditch, due to the fact that it is fed by a small spring. The spring enters the ditch by way of an underground pipe just inside the eastern boundary of the site. Aside from the partially lined area and the leachate points, the slopes of the ditch are vegetated with grass. The ditch drains into Dry Branch Creek, which is a tributary to the

Tennessee River. FIT members observed many depressed areas throughout the site where settling of the fill had occurred. It was noted that after rainfall events, several of the depressed areas held standing water. An oily sheen was present at some areas of standing water.

2.2 Site History

The former landfill at the Aquadome Site was owned and operated by the City of Decatur (Ref. 8). There are no records available to identify contributors to the landfill or to specify the date operation was initiated. It is known, however, that the facility was active for approximately 20 years and was used for open dumping and burning of wastes in trenches. There was no cap installed at the time of the landfill's closure in 1964. Construction of the school began in 1969; gas monitoring systems were installed in the existing school and recreation buildings shortly after their completion (Ref. 9). The gas monitoring systems have detected methane gas present up to 8% LEL outdoors and 2% LEL inside the Brookhaven Middle School building (Ref. 10). Four monitoring wells were installed in 1981 by Testing, Incorporated of Decatur. The State of Alabama Health Department periodically sampled these wells, as well as surface water onsite (Ref. 9).

2.3 Hydrogeology

The Aquadome Site is located in the Tennessee Valley district of the Interior Low Plateaus physiographic province. The topography in the vicinity of the site is typical of the Tennessee Valley district, having broad valleys and plateaus with elevations ranging between 500 and 600 feet above mean sea level. The climate is mild, as the average annual temperature is 61.0° F. Precipitation averages 50 inches annually with winter being the wettest season of the year (1).

The soil in the site vicinity consists of 20 - 30 feet of residual reddish-brown to gray silty clay loam of the Ooltewah and Cumberland Series. Although the soils are permeable, internal drainage is slow to the underlying bedrock and locally may result in the formation of intermittent ponds during the wet season (2).

Underlying the layer of soil is the Tuscumbia Limestone of Mississippian age. This formation is composed of a 180 foot thickness of light gray to olive-gray fine-to-coarse-grained clastic limestone. The limestone is thick bedded and contains nodules of bluish-gray chert. Beneath the Tuscumbia Limestone is the Ft. Payne Chert, which is comprised of 250 feet of limestone (50%), dolomite (25%), chert (20%), and shale. The Ft. Payne has been divided into three main units. The uppermost unit of the Ft. Payne is lithologically similar to the Tuscumbia; the only difference being that the limestone in the Ft. Payne was chemically precipitated and therefore is much finer grained than the Tuscumbia, which was a facies of clastic deposition. The middle unit of the Ft. Payne is classified as a very fine-grained silicified dolomitic limestone, and the lowermost unit is a very fine-grained partly silicified, partly calcareous dolomite and bluish-gray chert. Also included in the lower unit of the Ft. Payne is a six inch thick layer of greenish-gray shale (1).

Nearly all of the groundwater in the area is found within an extensive network of solution cavities developed in the Tuscumbia Limestone and the uppermost unit of the Ft. Payne Chert. The cavities are secondary, formed by the vertical and lateral movement of water along bedding planes, joints, and fractures. Although the water-bearing properties of the two formations differ, regionally they are considered as one aquifer, as there is no confining bed which separates the two formations. Most wells are stopped at the top of the lowermost unit of the Ft. Payne since material within and below this unit is relatively impermeable. Recharge to the aquifer is derived from precipitation, and wells in the area yield from 10 to 1,100 gpm with an average yield of 150 gpm (1).

3.0 OBJECTIVES

The objectives of this site sampling investigation were to:

- determine the identities and concentrations of contaminants present, if any, which do not normally occur in the study area.

- use the analytical data to aid in determining whether contaminants found on site have the potential to migrate.

4.0 SCOPE

It was within the scope of this investigation to collect groundwater, surface water, and soil/sediment samples. Sampling locations were chosen to target the areas where contamination was most likely. It was not within the scope of this investigation to install any monitoring wells, however, existing on-site permanent monitoring wells were sampled. This study did not include a site-specific geophysical evaluation.

5.0 FIELD INVESTIGATION

5.1 Description of Sample Locations

A total of 17 samples, including seven surface water samples, four groundwater samples, and six soil/sediment samples, were collected during this investigation. One surface water and one sediment sample were collected from the drainage ditch upstream from the site. One surface water sample was collected from a small spring where it enters the onsite drainage ditch by way of an underground pipe. Surface water and sediment samples were collected from each of three leachate points along the drainage ditch. (Please note that leachate points 2 and 4 are the same location. Due to environmental conditions during the sampling investigation, samples L2-5S and L4-7W were not collected consecutively, hence the different codes.) An additional surface water sample was taken from a small leachate pool just south of the ditch. Four groundwater samples were collected from existing monitoring wells at the site. One composite soil sample was taken from an auger hole near the small leachate pool. One surface water sample and one sediment sample were collected from the drainage ditch downstream from the site. Figure 3 shows the sampling locations and Table 1 lists sample codes and descriptions. Information on the monitoring wells is given in Table 8.

5.2 Field Measurements

Temperature and pH of all water samples and conductivity readings for groundwater samples are shown in Table 9. The city of Decatur requested FIT to monitor the air in the Brookhaven Middle School basement. No readings above

background were detected with the HNU. Above background readings were recorded on the OVA in the boiler room, which may have been due to fumes from the gas-powered boiler and other machinery. Twenty-five gas vents around the school were surveyed with both the OVA and the HNU. Slight readings above background were detected by the OVA at two vents. HNU readings were taken at the onsite auger hole drilled by FIT members. These readings indicated that volatile organics were emitting from the hole. Readings taken in the breathing zone showed no contamination of the ambient atmosphere.

5.3 Split Samples

CERCLA regulations dictate that split samples be offered to the current owners of a site. The city of Decatur declined split samples.

5.4 Analytical Laboratories

Analyses of samples collected during this investigation were conducted by laboratories under contract with the U.S. Environmental Protection Agency in their Contract Laboratory Program (CLP). Organic analyses of samples collected during the Aquadome study were performed by CompuChem Labs of Research Triangle Park, North Carolina. Inorganic analyses were conducted by Rocky Mountain Analytical Labs of Arvada, Colorado. All analytical laboratory data are attached as Appendix A.

5.5 Analytical Data Quality

The analytical data generated from the Aquadome investigation have been subjected to quality control review. All contaminants detected during analyses are tabulated in Tables 2-7. Concentrations of some of the contaminants are designated in the tables as estimated values. Those data indicate only the presence of the given contaminants, and should be used for site screening purposes only.

6.0 DISCUSSION OF ANALYTICAL RESULTS

6.1 Groundwater Samples

Four onsite monitoring wells were sampled. The locations of these wells are shown on Figure 3. Analyses on sample MW-1 from the well in the southwest corner of the site indicated the presence of sixteen inorganics. Of these, six are priority pollutants: silver (5.7 est. ug/l), chromium (15 ug/l), copper (8.9 est. ug/l), nickel (13 ug/l), lead (8.4 ug/l), and zinc (97 ug/l). No organics were detected in this sample.

Sample MW-2, from the well on the site's northern boundary, was found to contain eighteen inorganics. Eight of these are priority pollutant metals. They are as follows (concentrations in ug/l): silver (9.1 est.), arsenic (9.6), cadmium (6.4), chromium (31), copper (24 est.), nickel (28), lead (26), and zinc (220). One organic compound was identified, toluene, a priority pollutant at 3.5 (est.) ug/l.

Analyses on sample MW-3, from the central monitoring well, showed the presence of twelve inorganics, four of which are priority pollutants. These priority pollutant metals are: copper (9 est. ug/l), nickel (15 ug/l), lead (16 ug/l), and zinc (31 ug/l). Organic analyses indicated only the presence of one unidentified organic compound.

Inorganic analyses on groundwater sample MW-4 (location shown on Figure 3) identified seventeen inorganic constituents, seven of which are priority pollutants. As with all three of the preceeding monitoring well samples, copper, nickel, lead, and zinc were present in MW-4, at concentrations of 30 (est.), 22, 23, and 150 ug/l respectively. Silver (6.6 est. ug/l), beryllium (0.5 ug/l), and chromium (45 ug/l) were also present in this sample. Toluene (7.9 ug/l) was the only priority pollutant organic identified in sample MW-4. All inorganic data on the groundwater samples are shown in Table 6. The corresponding organic data are given in Table 7.

6.2 Leachate and Sediment Samples

Four leachate samples were taken at the Aquadome site. Corresponding sediment samples were collected at three of the leachate points. Water sample L1-4W,

taken at leachate point number one, was found to contain fourteen inorganic constituents. Four of these are considered priority pollutant metals: chromium (7.9 ug/l), copper (9.6 est. ug/l), lead (61 ug/l), and zinc (81 ug/l). No organic compounds were present in this sample. The corresponding sediment sample, L1-4S, contained a total of seventeen inorganic constituents, seven of which are priority pollutants. These priority pollutant metals and their concentrations (in ug/kg) are as follows: silver (4,500 est.), arsenic (7,500), chromium (29,000), copper (11,000 est.), nickel (5,200), lead (24,000), and zinc (36,000). Two of the three organic compounds identified in this sample are priority pollutants: bis (2-ethylhexyl)phthalate (500 est. ug/kg), and toluene (5 est. ug/kg).

Leachate water sample L4-7W and sediment sample L2-5S were collected at the same location, leachate point number two. Analyses on the water sample at this location indicated the presence of nineteen inorganics, nine of which are priority pollutants. These nine are as follows (concentrations in ug/l): silver (18 est.), arsenic (31), beryllium (3), cadmium (19), chromium (330), copper (130 est.), nickel (53), lead (480), and zinc (680). One organic compound was present in this sample, benzo (GHI) perylene, a priority pollutant, at 9.2 (est.) ug/l. The corresponding sediment sample, L2-5S, was shown to contain sixteen inorganics, of which seven are priority pollutant metals. These are silver (4,400 est. ug/kg), arsenic (9,100 ug/kg), cadmium (4,800 ug/kg), chromium (51,000 ug/kg), copper (24,000 ug/kg), nickel (9,000 ug/kg), and lead (66,000 ug/kg). The priority pollutant organics bis (2-ethylhexyl)phthalate (340 est. ug/kg) and 3,3'-dichlorobenzidene (1,500 ug/kg) were also identified. In addition, the pesticides dieldrin and chlordane were present in this sample at concentrations of 7 (est.) ug/kg and 69 (est.) ug/kg respectively. (Chlordane was detected on a presumptive evidence basis.)

Analyses indicated that leachate water sample L3-6W contained the same inorganic priority pollutants as L4-7W, with the exceptions of arsenic and beryllium. Concentrations of the seven priority pollutant metals in L3-6W are somewhat lower than in L4-7W (Table 6). Four priority pollutant organic compounds were found in this sample: vinyl chloride (35 ug/l), trans-1,2-dichloroethene (50 ug/l), trichloroethene (3.6 est. ug/l), and chlorobenzene (4.9 est. ug/l). Five priority pollutant metals were present in L3-6S, the corresponding sediment sample. These inorganic constituents included arsenic (4,700 ug/kg), chromium (30,000 ug/kg),

copper (42,000 ug/kg), lead (31,000 ug/kg), and zinc (58,000 ug/kg). There were no organic compounds identified in sediment sample L3-6S.

Leachate point number five was a small leachate pool. The limited amount of water present allowed for sampling for volatile organics analyses only. This sample was coded L5-8W. The results of these analyses indicate the presence of two organic priority pollutants: trans-1,2-dichloroethene at 11,000 ug/l and trichloroethene at 2,200 (est.) ug/l. No sediment sample was taken at this location. Results of inorganic analyses on leachate water and sediment samples are shown in Tables 2 and 6. Tables 3, 4, 5, and 7 give the organic analyses data on these samples.

6.3 Surface Water and Sediment Samples

Surface water and sediment samples were collected from the drainage ditch at locations upstream and downstream of the site. Additionally, a surface water sample was taken from a small spring where it enters the drainage ditch onsite. This sample, coded SW-2W, was found to contain eight inorganic constituents. Among these, zinc was the only inorganic priority pollutant present at 3.5 ug/l. Two priority pollutant organics were identified: tetrachloroethene (17 ug/l) and bis (2-ethylhexyl)phthalate (10 est. ug/l). Analyses also indicated the presence of the pesticides heptachlor epoxide (0.05 ug/l) and dieldrin (0.07 est. ug/l).

Surface water sample US-1W was collected from the drainage ditch just prior to where the ditch enters the site. Analyses revealed the presence of ten inorganic constituents, including priority pollutants lead (25 ug/l) and zinc (30 ug/l). Organic analyses found the sample to contain priority pollutants tetrachloroethene and bis (2-ethylhexyl)phthalate at estimated concentrations of 3.2 ug/l and 9.4 ug/l respectively. Analyses on the corresponding sediment sample, US-1S, indicated five priority pollutants were among fourteen inorganic constituents present. Chromium (32,000 ug/kg), copper (15,000 ug/kg), nickel (7,800 ug/kg), lead (270,000 ug/kg), and zinc (260,000 ug/kg) were identified. Analyses indicated the presence of nine priority pollutant organic compounds in this sample. They are as follows (concentrations in ug/kg): phenanthrene (540 est.), fluoranthene (860 est.), pyrene (550 est.), benzyl butyl phthalate (560 est.), bis (2-ethylhexyl)phthalate (1,200 est.),

benzo (A) anthracene (320 est.), chrysene (430 est.), phenol (800), and toluene (3,700). Pesticides dieldrin (59 ug/kg) and chlordane (presumptive evidence) were also detected in this sample.

Surface water sample DS-3W was taken from the drainage ditch just downstream of the site. Eleven inorganics were present in this sample, including the priority pollutants copper (8.8 est. ug/l), nickel (18 ug/l), and zinc (12 ug/l). The following priority pollutant organic compounds were detected (concentrations in ug/l): trans-1,2-dichloroethene (8.7), chloroform (3 est.), trichloroethene (3.6 est.), tetrachloroethene (2.8 est.), and toluene (92). Analyses also indicated the presence of heptachlor epoxide and dieldrin, priority pollutant pesticides, at estimated concentrations of 0.02 and 0.03 ug/l, respectively. The corresponding sediment sample, DS-3S, was found to contain five priority pollutant metals: chromium (47,000 ug/kg), copper (630,000 est. ug/kg), nickel (10,000 ug/kg), lead (180,000 ug/kg), and zinc (360,000 ug/kg). Organic analyses identified three priority pollutant organic compounds: di-N-butylphthalate (590 est. ug/kg), fluoranthene (530 est. ug/kg), and bis (2-ethylhexyl) phthalate (2,400 est. ug/kg). Dieldrin (60 ug/kg) and chlordane (presumptive evidence), priority pollutant pesticides, were also present. Surface water and sediment data from organic analyses are shown in Tables 3, 4, 5, and 7. Inorganic data are given in Tables 2 and 6.

6.4 Subsurface Soil Sample

One subsurface soil sample, coded A1S, was taken during the Aquadome study. The sample was a composite of soil collected from an auger hole approximately 10 feet deep. FIT members noted an unpleasant odor similar to that of shoe polish emitting from the auger hole. The soil from the hole was stained black. Inorganic analyses indicated the presence of twenty inorganic constituents, of which ten are priority pollutants. These are as follows (concentrations in ug/kg): silver (7,200 est.), arsenic (14,000), beryllium (530), cadmium (6,700), chromium (160,000), copper (28,000,000 est.), nickel (550,000), lead (520,000), zinc (2,600,000), and mercury (580). Analyses indicated seven organic priority pollutants were present, including (concentrations in ug/kg): naphthalene (13,000 est.), N-nitrosodiphenylamine/diphenylamine (22,000 est.), trans-1,2-dichloroethene (19), benzene (10), toluene (220), chlorobenzene (72), and ethyl benzene (50). Also found

in this sample was PCB 1254 at an estimated concentration of 9,400 ug/kg. Analytical results for this sample are shown in Tables 2-5.

7.0 SUMMARY OF ANALYTICAL RESULTS

The results of the inorganic analyses on all samples from this site indicated high levels of metals. Most consistently found throughout the site were copper, nickel, lead, and zinc.

The results of the organic analyses revealed that several of the soil/sediment samples contained toluene and bis (2-ethylhexyl)phthalate, as well as the pesticides dieldrin and chlordane. Tetrachloroethene, trichloroethene, bis (2-ethylhexyl)phthalate, and trans-1,2-dichloroethene occurred frequently throughout the leachate and surface water samples, while toluene was the only priority pollutant organic evident in the groundwater samples.

8.0 METHODOLOGY

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3, 4, and 6 of the Water Surveillance Branch Standard Operating Procedures and Quality Assurance Manual (Draft); United States Environmental Protection Agency, Region IV, Environmental Services Division, August 1980 and all revisions to the SOP addressed in the following correspondences:

Blackwell, P. (October 21, 1983) Changes in Sampling Procedures.
Lair, D. (September 10, 1984) Solvents Used to Clean Sampling Equipment.
Wilson, C. (December 14, 1983) Region IV Sampling SOP Revisions. (ESD, 1980).

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division; April 1982, or as specified by the existing United States

Environmental Protection Agency Standard procedures and protocols for the contract analytical laboratory program (ESD, 1982).

REFERENCES

1. Dodson, C.L., and Harris, W.F., Jr., Geology and Ground-Water Resources of Morgan County, Alabama; Geological Survey of Alabama, Bulletin 76, 1965.

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5. Mabry Engineering Co., Inc., Decatur, Alabama, Sample Analysis Report, Aquadome - Old Landfill, April 19, 1983.

6. Water Surveillance Branch Standard Operating Procedures and Quality Assurance Manual, (Draft); U.S. Environmental Protection Agency, Region IV, Environmental Services Division, August 29, 1980.

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8. Pugh, Joel, 1986. Mabry Engineering, Decatur City Engineer. Personal Communication with Katharine Fenley, NUS Corporation, 2/12/86. Re: Ownership of landfill and population of City of Decatur.

9. Scott-Simpson, Jennifer, and Hansen Benoy, Barbara, 1985. Reconnaissance Trip Reports, Aquadome Site, Decatur, Alabama, 4/16/85.

10. Mabry Engineering, 1983. Sampling Data Sheets, Aquadome Site, Decatur, Alabama, 4/14/83.

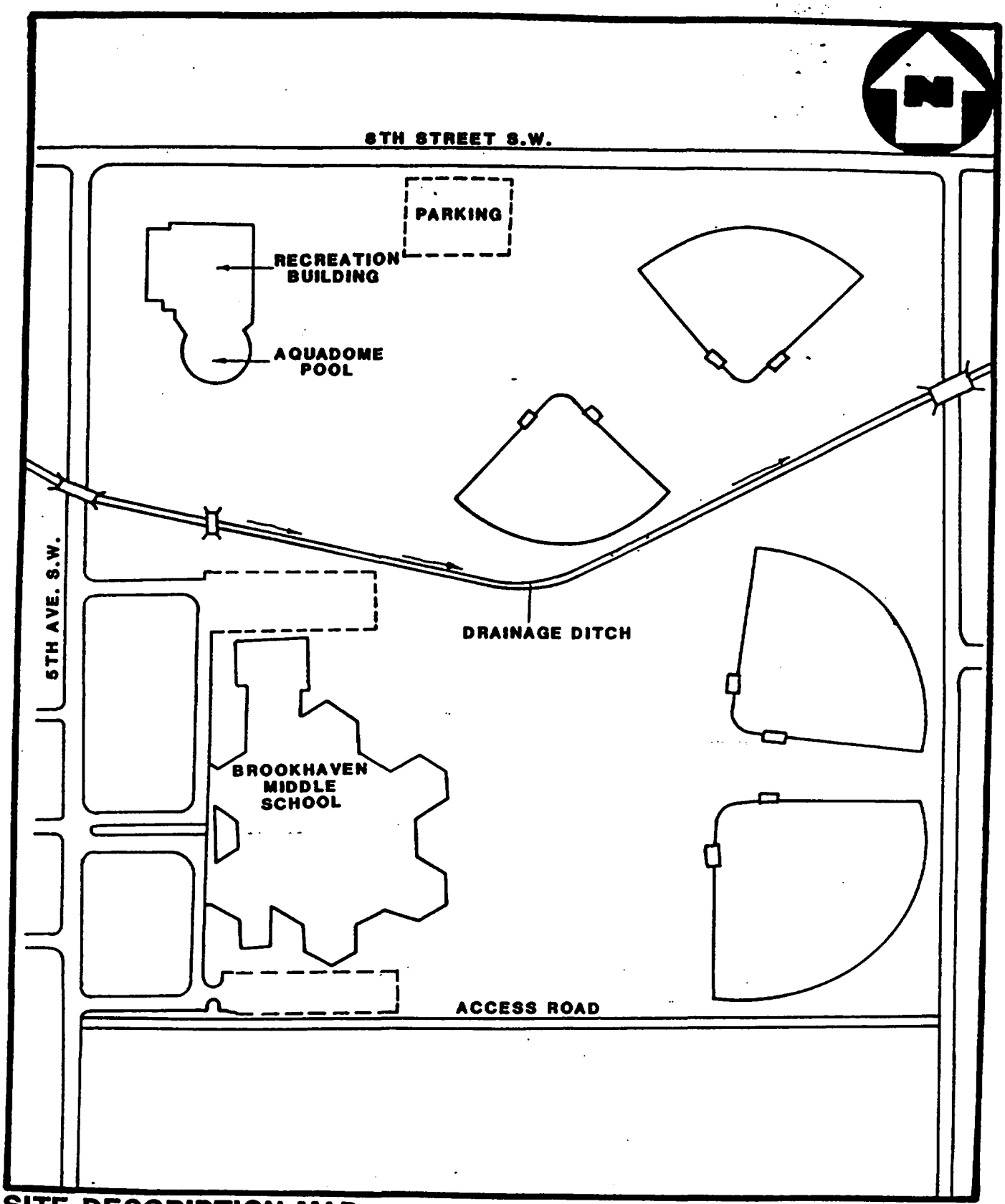
BASE MAP IS A PORTION OF THE USGS 7.5 MINUTE QUADRANGLE DECATUR, ALABAMA 1975.

SITE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 1

NUS CORPORATION
A Halliburton Company

SCALE : 1" = APPROX. 2364 FT.

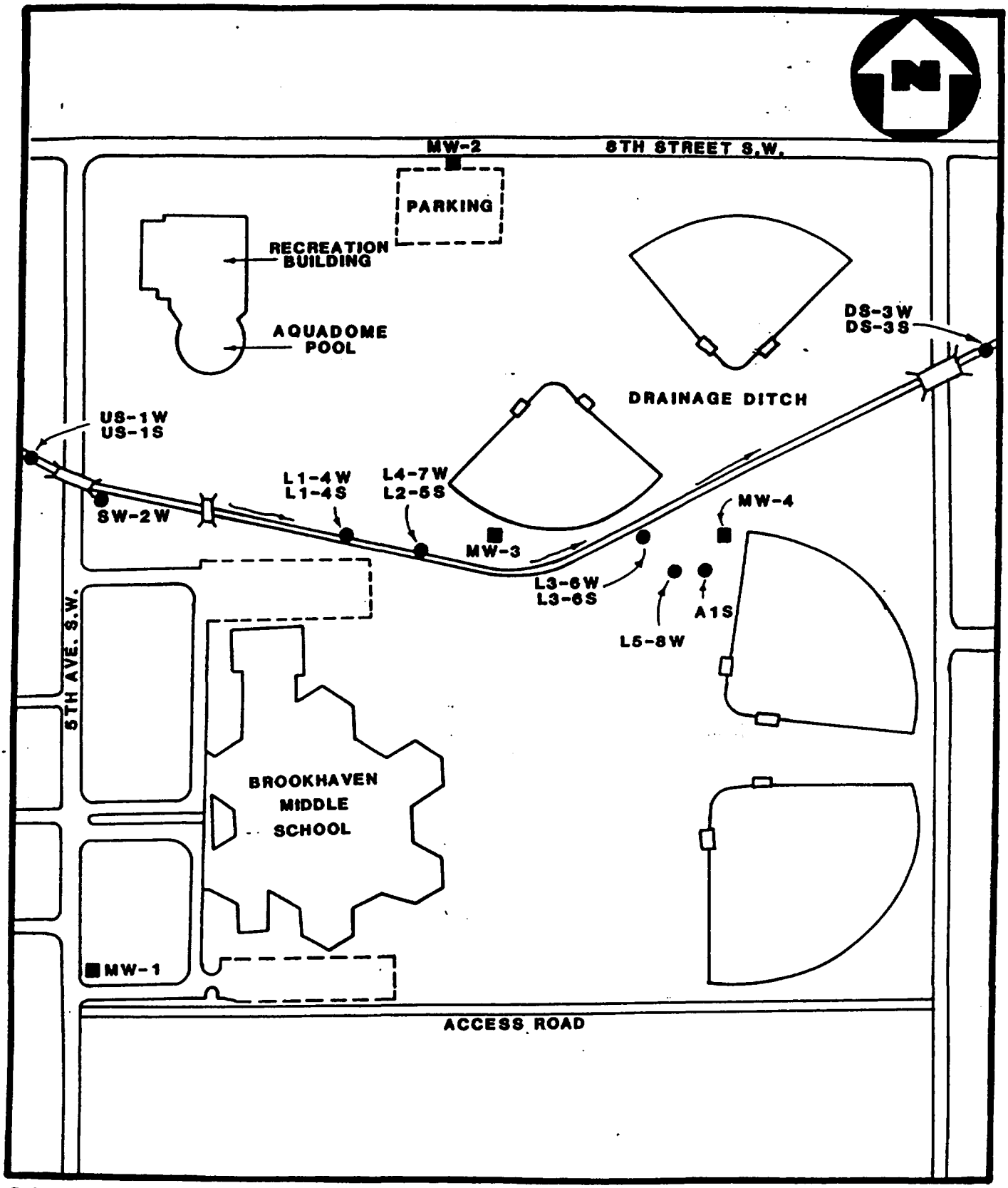


SITE DESCRIPTION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 2

SCALE : 1" = APPROX. 210 FT.

NUS CORPORATION
A Halliburton Company



SAMPLE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 3

SCALE : 1" = APPROX. 210 FT.

NUS CORPORATION
A Halliburton Company

TABLE 1
AQUADOME SITE
DECATUR, ALABAMA
SAMPLE CODES AND DESCRIPTIONS

Sample Code	Description
AD-US-1W	Water sample collected from drainage ditch upstream prior to entering site.
AD-US-1S	Sediment sample collected from above location.
AD-SW-2W	Water sample collected from spring which enters drainage ditch by way of an underground pipe.
AD-DS-3W	Water sample collected from drainage ditch downstream from site.
AD-DS-3S	Sediment sample collected from above location.
AD-MW-1	Groundwater sample collected from monitoring well #1.
AD-MW-2	Groundwater sample collected from monitoring well #2.
AD-MW-3	Groundwater sample collected from monitoring well #3.
AD-MW-4	Groundwater sample collected from monitoring well #4.
AD-L1-4W	Water sample collected from leachate point #1.
AD-L1-4S	Sediment sample collected from above location.
AD-L2-5S	Sediment sample collected from leachate point #2. (Leachate points #2 and #4 are the same.)
AD-L4-7W	Water sample collected from above location. (Leachate points #2 and #4 are the same.)
AD-L3-6W	Water sample collected from leachate point #3.
AD-L3-6S	Sediment sample collected from above location.
AD-A1S	Composite soil sample collected from auger hole onsite.
AD-L5-8W	Water sample collected from leachate pool (point #5) near auger hole. Volatile organics analysis only.

TABLE 2
AQUADOME SITE
DECATUR, ALABAMA
INORGANIC ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Element	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Silver*	-	4,500J	4,400J	-	7,200J	-
Arsenic*	-	7,500	9,100	4,700	14,000	-
Barium	57,000J	64,000J	110,000J	52,000J	210,000J	50,000J
Beryllium*	-	-	-	-	530	-
Cadmium*	-	-	4,800	-	6,700	-
Cobalt	8,100	6,700	7,600	7,400J	300J	-
Chromium*	32,000	29,000	51,000	30,000	160,000	47,000
Copper*	15,000J	11,000J	24,000	42,000J	28,000,000J	630,000J
Nickel*	7,800	5,200	9,000	-	550,000	10,000
Lead*	270,000	24,000	66,000	31,000	520,000	180,000
Tin	-	-	-	-	46,000	-
Vanadium	19,000	47,000	74,000	42,000	41,000	34,000
Zinc*	260,000	36,000	-	58,000	2,600,000	360,000
Aluminum	3,900,000	7,900,000J	11,000,000J	6,900,000J	18,000,000J	6,000,000J
Manganese	450,000J	470,000J	1,800,000J	430,000J	560,000J	490,000J
Calcium	160,000,000	4,000,000	10,000,000	4,800,000	23,000,000	85,000,000
Magnesium	3,400,000	350,000	670,000	460,000	13,000,000	1,900,000
Iron	9,500,000J	24,000,000J	40,000,000J	25,000,000	28,000,000J	24,000,000J
Sodium	-	660,000J	-	-	-	1,400,000J
Potassium	460,000	410,000	850,000	-	1,600,000	-
Mercury*	-	-	-	-	580	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value

TABLE 3
AQUADOME SITE
DECATUR, ALABAMA
PURGEABLE ORGANICS ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Compound	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Trans-1,2-dichloroethene*	-	-	-	-	19	-
Benzene*	-	-	-	-	10	-
Toluene*	3,700	5J	-	-	220	-
Chlorobenzene*	-	-	-	-	72	-
Ethyl Benzene*	-	-	-	-	50	-
Total Xylenes	-	-	-	-	130	-
Acetone	-	-	-	-	290J	-
Methyl Ethyl Ketone	-	-	-	-	110	-
Carbon Disulfide	-	-	-	-	5J	-
Unidentified Compounds	-	-	-	-	7	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value

TABLE 4
AQUADOME SITE
DECATUR, ALABAMA
EXTRACTABLE ORGANICS ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Compound	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Naphthalene*	-	-	-	-	13,000J	-
N-Nitrosodiphenylamine/ Diphenylamine*	-	-	-	-	22,000J	-
Phenanthrene*	540J	-	-	-	-	-
Di-N-butylphthalate*	-	-	-	-	-	590J
Fluoranthene*	860J	-	-	-	-	530J
Pyrene*	550J	-	-	-	-	-
Benzyl Butyl Phthalate*	560J	-	-	-	-	-
Bis(2-ethylhexyl)phthalate*	1,200J	500J	340J	-	-	2,400J
Benzo (A) anthracene*	320J	-	-	-	-	-
Chrysene*	430J	-	-	-	-	-
3,3'-Dichlorobenzidene*	-	-	1,500	-	-	-
Phenol*	800	-	-	-	-	-
4-Methylphenol	8,300	-	-	-	-	900J
Methylbenzene sulfonamide	-	3,000JN	-	-	-	-
Petroleum Product	N	N	-	-	N	N
Unidentified Compounds	3	-	5	-	-	5

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value
N Presumptive evidence of presence of material.

TABLE 5
AQUADOME SITE
DECATUR, ALABAMA
PESTICIDES AND PCB ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Compound	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Dieldrin*	59	-	7J	-	-	60
Chlordane (Tech. Mixture)*	180JN	-	69JN	-	-	410JN
PCB 1254 (AROCLOR 1254)*	-	-	-	-	9,400J	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value
N Presumptive evidence of presence of material.

TABLE 6
AQUADOME SITE
DECATUR, ALABAMA
INORGANICS ANALYSES
WATER SAMPLES
(in ug/l)

Element	US-1W	SW-2W	L1-4W	L4-7W	MW-3	L3-6W	MW-4	DS-3W	MW-1	MW-2
Silver*	-	-	-	18J	-	5.6J	6.6J	-	5.7J	9.1J
Arsenic*	-	-	-	31	-	-	-	-	-	9.6
Barium	45J	30J	340J	600J	97J	670J	160J	28J	730J	220J
Beryllium*	-	-	-	3	-	-	0.5	-	-	-
Cadmium*	-	-	-	19	-	8	-	-	-	6.4
Cobalt	-	-	11	43	-	51	12	-	16	110
Chromium*	-	-	7.9	330	-	27	45	-	15	31
Copper*	-	-	9.6J	130J	9J	71J	30J	8.8J	8.9J	24J
Nickel*	-	-	-	53	15	9.3	22	18	13	28
Lead*	25	-	61	480	16	120	23	-	8.4	26
Vanadium	-	-	11	570	-	41	54	-	11	43
Zinc*	30	3.5	81	680	31	180	150	12	97	220
Aluminum	140J	-	2,200J	110,000J	880J	9.5J	15,000J	62J	4,200J	6,700J
Manganese	100J	24J	3,600J	6,000J	200J	5.7J	1,700J	35J	12,000J	6,100J
Calcium	80,000,000	69,000	165,000	19,000	130,000	95,000	300,000	10,000	75,000,000	43,000
Magnesium	3,800	2,600	160,000	14,000	5,500	11,000	16,000	3,100	9,700	7,900
Iron	400,000J	70J	31,000J	270,000J	1,300J	74,000J	19,000J	310J	4,100J	65,000J
Sodium	5,400J	2,100J	37,000J	38,000J	100,000J	59,000J	88,000J	2,400,000J	20,000J	42,000J
Potassium	650	760	6,500	18,000	5,200	14,000	1,700	1,400	40,000	52,000

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value

TABLE 7
AQUADOME SITE
DECATUR, ALABAMA
SUMMARY OF ORGANICS AND PESTICIDES ANALYSES**
WATER SAMPLES
(in ug/l)

Compound	US-1W	SW-2W	L1-4W	L4-7W	MW-3	L3-6W	L5-8W	MW-4	DS-3W	MW-1	MW-2
Methyl Ethyl Ketone	-	-	-	-	-	-	-	33	75	-	-
Vinyl Chloride*	-	-	-	-	-	35	-	-	-	-	-
Trans-1,2-dichloroethene*	-	-	-	-	-	50	11,000	-	8.7	-	-
Chloroform*	-	-	-	-	-	-	-	-	3J	-	-
Trichloroethene*	-	-	-	-	-	3.6J	2,200J	-	3.6J	-	-
Tetrachloroethene*	3.2J	17	-	-	-	-	-	-	2.8J	-	-
Toluene*	-	-	-	-	-	-	-	7.9	92	-	3.5J
Chlorobenzene*	-	-	-	-	-	4.9J	-	-	-	-	-
Bis (2-ethylhexyl) phthalate*	9.4J	10J	-	-	-	-	NA	-	-	-	-
Benzo (GHI) perylene*	-	-	-	9.2J	-	-	NA	-	-	-	-
Unidentified Compounds	1	1	-	-	1	-	NA	-	-	-	-
Heptachlor Epoxide*	-	0.05	-	-	-	-	-	-	0.02J	-	-
Dieldrin*	-	0.07J	-	-	-	-	-	-	0.03J	-	-

*. Priority pollutant
- Material was analyzed for but not detected.
J Estimated value
NA Not analyzed
** No PCBs were found in any water sample.

TABLE 8
AQUADOME SITE
DECATUR, ALABAMA
MONITORING WELL INFORMATION

Well Code	Well Depth - Feet	Depth to Water - Feet
MW-1 (B-4)*	25.5	10.6
MW-2 (B-1)	38.0	11.5
MW-3 (B-2)	30.0	3.6
MW-4 (B-3)	30.0	8.7

* Indicates City of Decatur well designations. FIT team assigned MW codes due to unavailability of the original codes at the time of sampling.

(Source: Soil Boring Exploration Report, August 12, 1981, Testing Inc., Decatur, Alabama. Under contract with City of Decatur, c/o Mabry Engineering Co., Inc.)

TABLE 9
AQUADOME SITE
DECATUR, ALABAMA
FIELD MEASUREMENTS OF WATER SAMPLES

Code	pH	Temp. (°C)	Conductivity (umhos/cm)*
MW-1	6.6	19	220
MW-2	6.1	18	225
MW-3	8.9	18	375
MW-4	6.8	18	675
US-1W	7.5	23	
SW-2W	6.8	20	
DS-3W	7.3	22	
L1-4W	6.9	23	
L3-6W	6.6	22	
L4-7W	-	-	
L5-8W	6.6	23.5	

* Groundwater samples only.

DRAFT

REFERENCE NO. 3
APPENDIX A

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADINE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-18
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 UNG SAMPLE NO: D2265 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3.0UJ	MG/KG	SILVER
3.0U	MG/KG	ARSENIC
NA	MG/KG	BORON
57J	MG/KG	BARIUM
0.48U	MG/KG	BERYLLIUM
4.0U	MG/KG	CADMIUM
8.1	MG/KG	COBALT
32	MG/KG	CHROMIUM
15J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
7.8	MG/KG	NICKEL
270	MG/KG	LEAD
44U	MG/KG	ANTIMONY
4.0UR	MG/KG	SELENIUM
35U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3.0UR	MG/KG	THALLIUM
14	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
260	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.1U	MG/KG	MERCURY
3900	MG/KG	ALUMINUM
450J	MG/KG	MANGANESE
160000	MG/KG	CALCIUM
3400	MG/KG	MAGNESIUM
9500J	MG/KG	IRON
850UJ	MG/KG	SODIUM
460	MG/KG	POTASSIUM
48	%	MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-45
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D226R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
R=QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
M=COMPOUND MAY OR MAY NOT BE PRESENT
R=RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.5J	MG/KG	SILVER
7.5	MG/KG	ARSENIC
NA	MG/KG	BORON
64J	MG/KG	BARIUM
0.37U	MG/KG	BERYLLIUM
3.7U	MG/KG	CADMIUM
6.7	MG/KG	COBALT
28	MG/KG	CHROMIUM
41J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
5.2	MG/KG	NICKEL
24	MG/KG	LEAD
34U	MG/KG	ANTIMONY
3.7UR	MG/KG	SELENIUM
27U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3U	MG/KG	THALLIUM
47	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
36	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.08U	MG/KG	MERCURY
7900J	MG/KG	ALUMINUM
470J	MG/KG	MANGANESE
4000	MG/KG	CALCIUM
350	MG/KG	MAGNESIUM
29000J	MG/KG	IRON
660J	MG/KG	SODIUM
410	MG/KG	POTASSIUM
33	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.4J	MG/KG	SILVER
9.1	MG/KG	ARSENIC
NA	MG/KG	BORON
110J	MG/KG	BARIUM
0.47U	MG/KG	BERYLLIUM
4.8	MG/KG	CADMIUM
7.6	MG/KG	COBALT
51	MG/KG	CHROMIUM
24	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
9	MG/KG	NICKEL
66	MG/KG	LEAD
43U	MG/KG	ANTIMONY
47UR	MG/KG	SELENIUM
34U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3.8UR	MG/KG	THALLIUM
74	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
10U	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
[illegible]	[illegible]	[illegible]
11000J	MG/KG	ALUMINUM
1800J	MG/KG	MANGANESE
10000	MG/KG	CALCIUM
670	MG/KG	MAGNESIUM
40000J	MG/KG	IRON
830UJ	MG/KG	SODIUM
850	MG/KG	POTASSIUM
47	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-65
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3.4UJ	MG/KG	SILVER
4.7	MG/KG	ARSENIC
NA	MG/KG	BORON
52J	MG/KG	BARIUM
0.42U	MG/KG	BERYLLIUM
4.2U	MG/KG	CADMIUM
7.4J	MG/KG	COBALT
30	MG/KG	CHROMIUM
42J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
4.2U	MG/KG	NICKEL
81	MG/KG	LEAD
39U	MG/KG	ANTIMONY
42UR	MG/KG	SELENIUM
31U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3.4UR	MG/KG	THALLIUM
42	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
58	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.08U	MG/KG	MERCURY
6900J	MG/KG	ALUMINUM
430J	MG/KG	MANGANESE
4800	MG/KG	CALCIUM
460	MG/KG	MAGNESIUM
25000	MG/KG	IRON
750UJ	MG/KG	SODIUM
400U	MG/KG	POTASSIUM
41	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
7.2J	MG/KG	SILVER
14	MG/KG	ARSENIC
NA	MG/KG	BORON
210J	MG/KG	BARIUM
0.53	MG/KG	BERYLLIUM
6.7	MG/KG	CADMIUM
0.3J	MG/KG	COBALT
160	MG/KG	CHROMIUM
28000J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
550	MG/KG	NICKEL
520	MG/KG	LEAD
31U	MG/KG	ANTIMONY
14UR	MG/KG	SELENIUM
4R	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
2.7UR	MG/KG	THALLIUM
41	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
2600	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.58	MG/KG	MERCURY
18000J	MG/KG	ALUMINUM
560J	MG/KG	MANGANESE
23000	MG/KG	CALCIUM
13000	MG/KG	MAGNESIUM
28000J	MG/KG	IRON
6000UJ	MG/KG	SODIUM
1600	MG/KG	POTASSIUM
26	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS WATER

SAMPLE NO.: 85C 7642 SAMPLE TYPE: MONNL

PROJECT NO.: 85-060 PROGRAM ELEMENT: N8F
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-U8-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: M R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4UJ	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
45J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
4UJ	UG/L	COPPER
NA	UG/L	MOLYBDENUM
5U	UG/L	NICKEL
25	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
4UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
30	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.10U	UG/L	MERCURY
140J	UG/L	ALUMINUM
100J	UG/L	MANGANESE
[illegible]	MG/L	CALCIUM
[illegible]	MG/L	MAGNESIUM
[illegible]	MG/L	IRON
[illegible]	MG/L	SODIUM
0.65	MG/L	POTASSIUM

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE DOC VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
30J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
4UJ	UG/L	COPPER
NA	UG/L	MOLYBDENUM
5U	UG/L	NICKEL
5U	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
3.5	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
23UJ	UG/L	ALUMINUM
2UJ	UG/L	MANGANESE
89	MG/L	SODIUM
8.6	MG/L	CALCIUM
0.014	MG/L	IRON
2.1	MG/L	MAGNESIUM
0.760	MG/L	POTASSIUM

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: R5C 7644 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: N8F
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
340J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
50	UG/L	CADMIUM
11	UG/L	COBALT
7.9	UG/L	CHROMIUM
9.6J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
50	UG/L	NICKEL
61	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
11	UG/L	VANADIUM
NA	UG/L	YTTRIUM
81	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
2200J	UG/L	ALUMINUM
3600J	UG/L	MANGANESE
165	MG/L	CALCIUM
160	MG/L	MAGNESIUM
31J	MG/L	IRON
37J	MG/L	SODIUM
6.5	MG/L	POTASSIUM

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
18J	UG/L	SILVER
11	UG/L	ARSENIC
NA	UG/L	BORON
600J	UG/L	BARIUM J
3	UG/L	BERYLLIUM
19	UG/L	CADMIUM
43	UG/L	COBALT
330	UG/L	CHROMIUM
130J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
53	UG/L	NICKEL
480	UG/L	LEAD
46U	UG/L	ANTIMONY
50UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
570	UG/L	VANADIUM
NA	UG/L	YTTRIUM
680	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
110000J	UG/L	ALUMINUM
6000J	UG/L	MANGANESE
19	MG/L	CALCIUM
14	MG/L	MAGNESIUM
270J	MG/L	IRON
38J	MG/L	SODIUM
18	MG/L	POTASSIUM

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-38
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB466 INORG SAMPLE NO.: MUC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6.3UJ	MG/KG	SILVER
6.3U	MG/KG	ARSENIC
NA	MG/KG	BORON
50J	MG/KG	BARIUM
0.78U	MG/KG	BERYLLIUM
7.8U	MG/KG	CADMIUM
11U	MG/KG	COBALT
47	MG/KG	CHROMIUM
630J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
10	MG/KG	NICKEL
180	MG/KG	LEAD
72U	MG/KG	ANTIMONY
31UR	MG/KG	SELENIUM
56U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
6.3U	MG/KG	THALLIUM
34	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
360	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.16U	MG/KG	MERCURY
6000J	MG/KG	ALUMINUM
490J	MG/KG	MANGANESE
85000	MG/KG	CALCIUM
1900	MG/KG	MAGNESIUM
24000J	MG/KG	IRON
1400J	MG/KG	SODIUM
730U	MG/KG	POTASSIUM
68	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.960J	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2265 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D226R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: PWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.7500	MG/KG	CYANIDE	00721

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.940J	NG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-5S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.850J	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.6BUJ	MG/KG	CYANIDE	00721

12/11/85 SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-ESD,PEG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: K HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: OB466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
1.6UJ	MG/KG	CYANIDE	00721

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS
WATER

SAMPLE NO.: 85C 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5.6J	UG/L	SILVER
40	UG/L	ARSENIC
NA	UG/L	BORON
670J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
8	UG/L	CADMIUM
51	UG/L	COBALT
27	UG/L	CHROMIUM
71J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
9.3	UG/L	NICKEL
120	UG/L	LEAD
46U	UG/L	ANTIMONY
50UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
41	UG/L	VANADIUM
NA	UG/L	YTTRIUM
180	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
9.5J	UG/L	ALUMINUM
5.7J	UG/L	MANGANESE
38	MG/L	CALCIUM
11	MG/L	MAGNESIUM
14J	MG/L	IRON
59J	MG/L	SODIUM
14	MG/L	POTASSIUM

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
28J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
8.8J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
18	UG/L	NICKEL
2U	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
12	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
62J	UG/L	ALUMINUM
15J	UG/L	MANGANESE
10	MG/L	CALCIUM
3.1	MG/L	MAGNESIUM
0.310J	MG/L	IRON
2400J	MG/L	SODIUM
1.4	MG/L	POTASSIUM

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7648 SAMPLE TYPE: MONWL

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
NA	MG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MUC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5.7J	UG/L	SILVER
40	UG/L	ARSENIC
NA	UG/L	BORON
730J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
50	UG/L	CADMIUM
16	UG/L	COBALT
15	UG/L	CHROMIUM
8.9J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
13	UG/L	NICKEL
8.4	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
11	UG/L	VANADIUM
NA	UG/L	YTTRIUM
97	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
4200J	UG/L	ALUMINUM
12000J	UG/L	MANGANESE
75000	MG/L	CALCIUM
9.7	MG/L	MAGNESIUM
4.1J	MG/L	IRON
20J	MG/L	SODIUM
40	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-FSD,REG IV
ATHENS GEORGIA

10/15/85 METALS WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADUME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
9.1J	UG/L	SILVER
9.6	UG/L	ARSENIC
NA	UG/L	BORON
220J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
6.4	UG/L	CADMIUM
110	UG/L	COBALT
31	UG/L	CHROMIUM
24J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
28	UG/L	NICKEL
26	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
43	UG/L	VANADIUM
NA	UG/L	YTTRIUM
220	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
6700J	UG/L	ALUMINUM
6100J	UG/L	MANGANESE
43	MG/L	CALCIUM
7.9	MG/L	MAGNESIUM
64J	MG/L	IRON
42J	MG/L	SODIUM
52	MG/L	POTASSIUM

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
97J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
70	UG/L	COBALT
4U	UG/L	CHROMIUM
9J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
15	UG/L	NICKEL
18	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
40	UG/L	VANADIUM
NA	UG/L	YTTRIUM
31	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
880J	UG/L	ALUMINUM
200J	UG/L	MANGANESE
130	MG/L	CALCIUM
5.5	MG/L	MAGNESIUM
1.3J	MG/L	IRON
100J	MG/L	SODIUM
5.2	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: A BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6.6J	UG/L	SILVER
10U	UG/L	ARSENIC
NA	UG/L	BORON
160J	UG/L	BARIUM
0.5	UG/L	BERILLIUM
5U	UG/L	CADMIUM
12	UG/L	COBALT
45	UG/L	CHROMIUM
30J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
22	UG/L	NICKEL
23	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
54	UG/L	VANADIUM
NA	UG/L	YTTRIUM
150	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
15000J	UG/L	ALUMINUM
1700J	UG/L	MANGANESE
300	MG/L	CALCIUM
16	MG/L	MAGNESIUM
19J	MG/L	IRON
88J	MG/L	SODIUM
1.7	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	NG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MUC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100U	MG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITTATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: H5C 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R=QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R=COMPOUND MAY OR MAY NOT BE PRESENT
R=RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2.6UJ	MG/KG	SILVER
2.6U	MG/KG	ARSENIC
NA	MG/KG	BORON
7.9UJ	MG/KG	BARIUM
0.33U	MG/KG	BERYLLIUM
3.3U	MG/KG	CADMIUM
4.6U	MG/KG	COBALT
2.6U	MG/KG	CHROMIUM
13J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
3.3U	MG/KG	NICKEL
1.3U	MG/KG	LEAD
30U	MG/KG	ANTIMONY
3.3UR	MG/KG	SELENIUM
24U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
2.6U	MG/KG	THALLIUM
2.6U	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
1.7	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.07U	MG/KG	MERCURY
350J	MG/KG	ALUMINUM
2.7J	MG/KG	MANGANESE
190U	MG/KG	CALCIUM
200U	MG/KG	MAGNESIUM
170J	MG/KG	IRON
5800J	MG/KG	SODIUM
310U	MG/KG	POTASSIUM
24	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2.6UJ	MG/KG	SILVER
2.6U	MG/KG	ARSENIC
NA	MG/KG	BORON
7.9UJ	MG/KG	BARIUM
0.33U	MG/KG	BERYLLIUM
3.3U	MG/KG	CADMIUM
4.6U	MG/KG	COBALT
2.6U	MG/KG	CHROMIUM
13J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
3.3U	MG/KG	NICKEL
1.3U	MG/KG	LEAD
30U	MG/KG	ANTIMONY
3.3UR	MG/KG	SELENIUM
24U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
2.6U	MG/KG	THALLIUM
2.6U	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
1.7	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.07U	MG/KG	MERCURY
350J	MG/KG	ALUMINUM
2.7J	MG/KG	MANGANESE
190U	MG/KG	CALCIUM
200U	MG/KG	MAGNESIUM
170J	MG/KG	IRON
580UJ	MG/KG	SODIUM
310U	MG/KG	POTASSIUM
24	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.660J	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: PWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS WATER

SAMPLE NO.: 85C 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDB642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
88%	UG/L	ARSENIC
NA	UG/L	BORON
104%	UG/L	BARIUM
110%	UG/L	BERYLLIUM
113%	UG/L	CADMIUM
104%	UG/L	COBALT
113%	UG/L	CHROMIUM
110%	UG/L	COPPER
NA	UG/L	MOLYBDENUM
104%	UG/L	NICKEL
74%	UG/L	LEAD
115%	UG/L	ANTIMONY
58%	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
0%	UG/L	THALLIUM
106%	UG/L	VANADIUM
NA	UG/L	YTTRIUM
124%	UG/L	ZINC
NA	UG/L	ZIRCONIUM
64%	UG/L	MERCURY
98%	UG/L	ALUMINUM
150%	UG/L	MANGANESE
0.29U	MG/L	CALCIUM
0.33U	MG/L	MAGNESIUM
100%	MG/L	IRON
0.88UJ	MG/L	SODIUM
0.470U	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDB642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
102%	MG/L	CYANIDE	00720

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85 METALS WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKNA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40UJ	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
12UJ	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
40J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
5U	UG/L	NICKEL
5U	UG/L	LEAD
46U	UG/L	ANTIMONY
2UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
40R	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
2U	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
23UJ	UG/L	ALUMINUM
3UJ	UG/L	MANGANESE
0.290U	MG/L	CALCIUM
0.380U	MG/L	MAGNESIUM
0.011UJ	MG/L	IRON
0.880UJ	MG/L	SODIUM
0.470U	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ACHADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2265 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
20000U	UG/KG	CHLOROMETHANE
20000U	UG/KG	BROMOMETHANE
20000U	UG/KG	VINYL CHLORIDE
20000U	UG/KG	CHLOROETHANE
20000J	UG/KG	METHYLENE CHLORIDE
20000U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
20000U	UG/KG	1,1-DICHLOROETHANE
20000U	UG/KG	TRANS-1,2-DICHLOROETHENE
20000U	UG/KG	CHLOROFORM
20000U	UG/KG	1,2-DICHLOROETHANE
20000U	UG/KG	1,1,1-TRICHLOROETHANE
20000U	UG/KG	CARBON TETRACHLORIDE
20000U	UG/KG	BROMODICHLOROMETHANE
20000U	UG/KG	1,2-DICHLOROPROPANE
20000U	UG/KG	TRANS-1,3-DICHLOROPROPENE
20000U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
20000U	UG/KG	BENZENE
20000U	UG/KG	DIBROMOCHLOROMETHANE
20000U	UG/KG	1,1,2-TRICHLOROETHANE
20000U	UG/KG	CIS-1,3-DICHLOROPROPENE
20000U	UG/KG	2-CHLOROETHYLVINYL ETHER
20000U	UG/KG	BROMOFORM
20000U	UG/KG	1,1,2,2-TETRACHLOROETHANE
20000U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
3700	UG/KG	TOLUENE
[illegible]	[illegible]	[illegible]
20000U	UG/KG	ETHYL BENZENE
20000U	UG/KG	TOTAL XYLENES
50	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED ATHENS QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02765 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
30000J	ACETONE
20000	METHYL ETHYL KETONE
20000	CARBON DISULFIDE
20000	METHYL BUTYL KETONE
20000	METHYL ISOBUTYL KETONE
20000	STYRENE
20000	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: R5-060 PROGRAM ELEMENT: HSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-1-1-45
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D226R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
200	UG/KG	CHLOROMETHANE
200	UG/KG	BROMOMETHANE
200	UG/KG	VINYL CHLORIDE
200	UG/KG	CHLOROETHANE
200J	UG/KG	METHYLENE CHLORIDE
200	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
200	UG/KG	1,1-DICHLOROETHANE
200	UG/KG	TRANS-1,2-DICHLOROETHENE
200	UG/KG	CHLOROFORM
200	UG/KG	1,2-DICHLOROETHANE
200	UG/KG	1,1,1-TRICHLOROETHANE
200	UG/KG	CARBON TETRACHLORIDE
200	UG/KG	BROMODICHLOROMETHANE
200	UG/KG	1,2-DICHLOROPROPANE
200	UG/KG	TRANS-1,3-DICHLOROPROPENE
200	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
200	UG/KG	BENZENE
200	UG/KG	DIBROMOCHLOROMETHANE
200	UG/KG	1,1,2-TRICHLOROETHANE
200	UG/KG	CIS-1,3-DICHLOROPROPENE
200	UG/KG	2-CHLOROETHYLVINYL ETHER
200J	UG/KG	BROMOFORM
200	UG/KG	1,1,2,2-TETRACHLOROETHANE
200	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
57	UG/KG	TOLUENE
200	UG/KG	CHLOROBENZENE
200	UG/KG	ETHYL BENZENE
200	UG/KG	TOTAL XYLENES
50	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: ADDADDDF SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2268 INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
400J	ACETONE
20U	METHYL ETHYL KETONE
20U	CARBON DISULFIDE
20U	METHYL BUTYL KETONE
20U	METHYL ISOBUTYL KETONE
20U	STYRENE
20U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADUCT SITE
CITY: DECATUR STATE: AL

STATION I.D.: A0-02-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
22U	UG/KG	CHLOROMETHANE
22U	UG/KG	BROMOMETHANE
22U	UG/KG	VINYL CHLORIDE
22U	UG/KG	CHLOROETHANE
22U	UG/KG	METHYLENE CHLORIDE
22U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
22U	UG/KG	1,1-DICHLOROETHANE
22U	UG/KG	TRANS-1,2-DICHLOROETHENE
22U	UG/KG	CHLOROFORM
22U	UG/KG	1,2-DICHLOROETHANE
22U	UG/KG	1,1,1-TRICHLOROETHANE
22U	UG/KG	CARBON TETRACHLORIDE
22U	UG/KG	BROMODICHLOROMETHANE
22U	UG/KG	1,2-DICHLOROPROPANE
22U	UG/KG	TRANS-1,3-DICHLOROPROPENE
22U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
22U	UG/KG	BENZENE
22U	UG/KG	DIBROMOCHLOROMETHANE
22U	UG/KG	1,1,2-TRICHLOROETHANE
22U	UG/KG	CIS-1,3-DICHLOROPROPENE
22UJ	UG/KG	2-CHLOROETHYLVINYL ETHER
22U	UG/KG	BROMOFORM
22U	UG/KG	1,1,2,2-TETRACHLOROETHANE
22U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
22U	UG/KG	TOLUENE
22U	UG/KG	CHLOROBENZENE
22U	UG/KG	ETHYL BENZENE
22U	UG/KG	TOTAL XYLENES
55	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADJACENT SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GAB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
22U	ACETONE
22U	METHYL ETHYL KETONE
22U	CARBON DISULFIDE
22U	METHYL BUTYL KETONE
22U	METHYL ISOBUTYL KETONE
22U	STYRENE
22U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: BSC 7658 SAMPLE TYPE: SED1M

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-13-6S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2772 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
200	UG/KG	CHLOROMETHANE
200	UG/KG	BROMOMETHANE
200	UG/KG	VINYL CHLORIDE
200	UG/KG	CHLOROETHANE
200	UG/KG	METHYLENE CHLORIDE
200	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
200	UG/KG	1,1-DICHLOROETHANE
200	UG/KG	TRANS-1,2-DICHLOROETHENE
200	UG/KG	CHLOROFORM
200	UG/KG	1,2-DICHLOROETHANE
200	UG/KG	1,1,1-TRICHLOROETHANE
200	UG/KG	CARBON TETRACHLORIDE
200	UG/KG	BROMODICHLOROMETHANE
200	UG/KG	1,2-DICHLOROPROPANE
200	UG/KG	TRANS-1,3-DICHLOROPROPENE
200	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
200	UG/KG	BENZENE
200	UG/KG	DIBROMOCHLOROMETHANE
200	UG/KG	1,1,2-TRICHLOROETHANE
200	UG/KG	CIS-1,3-DICHLOROPROPENE
200	UG/KG	2-CHLOROETHYLVINYL ETHER
200J	UG/KG	BROMOFORM
200	UG/KG	1,1,2,2-TETRACHLOROETHANE
200	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
200	UG/KG	TOLUENE
200	UG/KG	CHLOROBENZENE
200	UG/KG	ETHYL BENZENE
200	UG/KG	TOTAL XYLENES
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-63-6S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 UPG SAMPLE NO: 02272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
20U	ACETONE
20U	METHYL ETHYL KETONE
20U	CARBON DISULFIDE
20U	METHYL BUTYL KETONE
20U	METHYL ISOBUTYL KETONE
20U	STYRENE
20U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADORE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
13U	UG/KG	CHLOROMETHANE
13U	UG/KG	BROMOMETHANE
13U	UG/KG	VINYL CHLORIDE
13U	UG/KG	CHLOROETHANE
200J	UG/KG	METHYLENE CHLORIDE
6.7U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
6.7U	UG/KG	1,1-DICHLOROETHANE
10	UG/KG	TRANS-1,2-DICHLOROETHENE
6.7U	UG/KG	CHLOROFORM
6.7U	UG/KG	1,2-DICHLOROETHANE
6.7U	UG/KG	1,1,1-TRICHLOROETHANE
6.7U	UG/KG	CARBON TETRACHLORIDE
6.7U	UG/KG	BROMODICHLOROMETHANE
6.7U	UG/KG	1,2-DICHLOROPROPANE
6.7U	UG/KG	TRANS-1,3-DICHLOROPROPENE
6.7U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
10	UG/KG	BENZENE
6.7U	UG/KG	DIBROMOCHLOROMETHANE
6.7U	UG/KG	1,1,2-TRICHLOROETHANE
6.7U	UG/KG	CIS-1,3-DICHLOROPROPENE
6.7U	UG/KG	2-CHLOROETHYLVINYL ETHER
6.7UJ	UG/KG	BROMOFORM
6.7U	UG/KG	1,1,2,2-TETRACHLOROETHANE
6.7U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
220	UG/KG	TOLUENE
72	UG/KG	CHLOROBENZENE
50	UG/KG	ETHYL BENZENE
130	UG/KG	TOTAL XYLENES
26	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
290J	ACETONE
110	METHYL ETHYL KETONE
5.0J	CARBON DISULFIDE
13U	METHYL BUTYL KETONE
13U	METHYL ISOBUTYL KETONE
13U	STYRENE
13U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE
900J	7 UNIDENTIFIED COMPOUNDS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060
SOURCE: AQUADUMP SITE PROGRAM ELEMENT: NSF
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-35
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4005 ORG SAMPLE NO: DR466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
330	UG/KG	CHLOROMETHANE
330	UG/KG	BROMOMETHANE
330	UG/KG	VINYL CHLORIDE
330	UG/KG	CHLOROETHANE
330	UG/KG	METHYLENE CHLORIDE
330	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
330	UG/KG	1,1-DICHLOROETHANE
330	UG/KG	TRANS-1,2-DICHLOROETHENE
330	UG/KG	CHLOROFORM
330	UG/KG	1,2-DICHLOROETHANE
330	UG/KG	1,1,1-TRICHLOROETHANE
330	UG/KG	CARBON TETRACHLORIDE
330	UG/KG	BROMODICHLOROMETHANE
330	UG/KG	1,2-DICHLOROPROPANE
330	UG/KG	TRANS-1,3-DICHLOROPROPENE
330	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
330	UG/KG	BENZENE
330	UG/KG	DIBROMOCHLOROMETHANE
330	UG/KG	1,1,2-TRICHLOROETHANE
330	UG/KG	CIS-1,3-DICHLOROPROPENE
330J	UG/KG	2-CHLOROETHYLVINYL ETHER
330	UG/KG	BROMOFORM
330	UG/KG	1,1,2,2-TETRACHLOROETHANE
330	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
330	UG/KG	TOLUENE
330	UG/KG	CHLOROBENZENE
330	UG/KG	ETHYL BENZENE
330	UG/KG	TOTAL XYLENES
70	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB166 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAT

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	IN: UG/KG	COMPOUND NAME
33U		ACETONE
33U		METHYL ETHYL KETONE
33U		CARBON DISULFIDE
33U		METHYL BUTYL KETONE
33U		METHYL ISOBUTYL KETONE
33U		STYRENE
33U		VINYL ACETATE
NA		DICHLORODIFLUOROMETHANE
NA		FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: OSF
SOURCE: HOLLINGER SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-15
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECVD: DATE/TIME 00/00/00 RECVD BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 1006 OEG SAMPLE NO: 02265 ENVIRO SAMPLE NO.: 100062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6700	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
6700	UG/KG	1,3-DICHLOROBENZENE
6700	UG/KG	1,4-DICHLOROBENZENE
6700	UG/KG	1,2-DICHLOROBENZENE
6700	UG/KG	BIS(2-CHLOROETHYL) ETHER
6700	UG/KG	HEXACHLOROETHANE
6700	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
6700	UG/KG	N-NITROSODI-N-PROPYLAMINE
6700	UG/KG	NITROBENZENE
6700	UG/KG	HEXACHLOROBUTADIENE
6700	UG/KG	1,2,4-TRICHLOROBENZENE
6700	UG/KG	NAPHTHALENE
6700	UG/KG	BIS(2-CHLOROETHOXY) METHANE
6700	UG/KG	ISOPHORONE
6700	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
6700	UG/KG	2-CHLORONAPHTHALENE
6700	UG/KG	ACENAPHTHYLENE
6700	UG/KG	ACENAPHTHENE
6700	UG/KG	DIMETHYL PHTHALATE
6700	UG/KG	2,4-DINITROTOLUENE
6700	UG/KG	2,6-DINITROTOLUENE
6700	UG/KG	4-CHLOROPHENYL PHENYL ETHER
6700	UG/KG	FLUORENE
6700	UG/KG	DIETHYL PHTHALATE
6700	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
6700	UG/KG	HEXACHLOROBENZENE (HCB)
6700	UG/KG	4-BROMOPHENYL PHENYL ETHER
5400J	UG/KG	PHENANTHRENE
6700	UG/KG	ANTHRACENE
6700	UG/KG	DI-N-BUTYLPHTHALATE
860J	UG/KG	FLUORANTHENE
550J	UG/KG	PYRENE
560J	UG/KG	BENZYL BUTYL PHTHALATE
1200J	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
320J	UG/KG	BENZO(A)ANTHRACENE
430J	UG/KG	CHRYSENE
13000	UG/KG	3,3'-DICHLOROBENZIDINE
6700	UG/KG	DI-N-OCTYLPHTHALATE
6700	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6700	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6700J	UG/KG	BENZO-A-PYRENE
6700	UG/KG	INDENO (1,2,3-CD) PYRENE
6700	UG/KG	DIBENZO(A,H)ANTHRACENE
6700	UG/KG	BENZO(GHI)PERYLENE
6700	UG/KG	2-CHLOROPHENOL
6700	UG/KG	2-NITROPHENOL
800	UG/KG	PHENOL
6700	UG/KG	2,4-DIMETHYLPHENOL
6700	UG/KG	2,4-DICHLOROPHENOL
6700	UG/KG	2,4,6-TRICHLOROPHENOL
6700	UG/KG	4-CHLORO-3-METHYLPHENOL
34000	UG/KG	2,4-DINITROPHENOL
34000	UG/KG	2-METHYL-4,6-DINITROPHENOL
34000	UG/KG	PENTACHLOROPHENOL
34000	UG/KG	4-NITROPHENOL
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 3005 ORG SAMPLE NO: 02765 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3400U	BENZOIC ACID
670U	2-METHYLPHENOL
8300	4-METHYLPHENOL
3400U	2,4,5-TRICHLOROPHENOL
670U	ANILINE
670U	BENZYL ALCOHOL
670U	4-CHLOROANILINE
670U	DIBENZOFURAN
670U	2-METHYL NAPHTHALENE
3400U	2-NITROANILINE
3400U	3-NITROANILINE
3400U	4-NITROANILINE
10000J	3 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADIADUNE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D226R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKB

RELEASE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6800	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
6800	UG/KG	1,3-DICHLOROBENZENE
6800	UG/KG	1,4-DICHLOROBENZENE
6800	UG/KG	1,2-DICHLOROBENZENE
6800	UG/KG	BIS(2-CHLOROETHYL) ETHER
6800	UG/KG	HEXACHLOROETHANE
6800	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
6800	UG/KG	N-NITROSODI-N-PROPYLAMINE
6800	UG/KG	NITROBENZENE
6800	UG/KG	HEXACHLOROBUTADIENE
6800	UG/KG	1,2,4-TRICHLOROBENZENE
6800	UG/KG	NAPHTHALENE
6800	UG/KG	BIS(2-CHLOROETHOXY) METHANE
6800	UG/KG	ISOPHORONE
6800	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
6800	UG/KG	2-CHLORONAPHTHALENE
6800	UG/KG	ACENAPHTHYLENE
6800	UG/KG	ACENAPHTHENE
6800	UG/KG	DIMETHYL PHTHALATE
6800	UG/KG	2,4-DINITROTOLUENE
6800	UG/KG	2,6-DINITROTOLUENE
6800	UG/KG	4-CHLOROPHENYL PHENYL ETHER
6800	UG/KG	FLUORENE
6800	UG/KG	DIETHYL PHTHALATE
6800	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
6800	UG/KG	HEXACHLOROBENZENE (HCB)
6800	UG/KG	4-BROMOPHENYL PHENYL ETHER
6800J	UG/KG	PHENANTHRENE
6800	UG/KG	ANTHRACENE
6800	UG/KG	DI-N-BUTYLPHTHALATE
6800J	UG/KG	FLUORANTHENE
6800	UG/KG	PYRENE
6800	UG/KG	BENZYL BUTYL PHTHALATE
5003	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
6800	UG/KG	BENZO(A)ANTHRACENE
6800	UG/KG	CHRYSENE
14000	UG/KG	3,3'-DICHLOROBENZIDINE
6800	UG/KG	DI-N-OCTYLPHTHALATE
6800	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6800	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6800J	UG/KG	BENZO-A-PYRENE
6800	UG/KG	INDENO (1,2,3-CD) PYRENE
6800	UG/KG	DIBENZO(A,H)ANTHRACENE
6800	UG/KG	BENZO(GHI)PERYLENE
6800	UG/KG	2-CHLOROPHENOL
6800	UG/KG	2-NITROPHENOL
6800	UG/KG	PHENOL
6800	UG/KG	2,4-DIMETHYLPHENOL
6800	UG/KG	2,4-DICHLOROPHENOL
6800	UG/KG	2,4,6-TRICHLOROPHENOL
6800	UG/KG	4-CHLORO-3-METHYLPHENOL
34000	UG/KG	2,4-DINITROPHENOL
34000	UG/KG	2-METHYL-4,6-DINITROPHENOL
34000	UG/KG	PENTACHLOROPHENOL
34000	UG/KG	4-NITROPHENOL
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2768 INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3400U	BENZOIC ACID
680U	2-METHYLPHENOL
680U	4-METHYLPHENOL
3400U	2,4,5-TRICHLOROPHENOL
680U	ANILINE
680U	BENZYL ALCOHOL
680U	4-CHLOROANILINE
680U	DIBENZOFURAN
680U	2-METHYL NAPHTHALENE
3400U	2-NITROANILINE
3400U	3-NITROANILINE
3400U	4-NITROANILINE
3000JN	METHYLBENZENESULFONAMIDE
N	PETROLEUM PRODUCT

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: BSC 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADORE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-02-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SPAGED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 1005 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
7400	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
7400	UG/KG	1,3-DICHLOROBENZENE
7400	UG/KG	1,4-DICHLOROBENZENE
7400	UG/KG	1,2-DICHLOROBENZENE
7400	UG/KG	BIS(2-CHLOROETHYL) ETHER
7400	UG/KG	HEXACHLOROETHANE
7400	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
7400	UG/KG	N-NITROSODI-N-PROPYLAMINE
7400	UG/KG	NITROBENZENE
7400	UG/KG	HEXACHLOROBUTADIENE
7400	UG/KG	1,2,4-TRICHLOROBENZENE
7400	UG/KG	NAPHTHALENE
7400	UG/KG	BIS(2-CHLOROETHOXY) METHANE
7400	UG/KG	ISOPHORONE
7400	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
7400	UG/KG	2-CHLORONAPHTHALENE
7400	UG/KG	ACENAPHTHYLENE
7400	UG/KG	ACENAPHTHENE
7400	UG/KG	DIMETHYL PHTHALATE
7400	UG/KG	2,4-DINITROTOLUENE
7400	UG/KG	2,6-DINITROTOLUENE
7400	UG/KG	4-CHLOROPHENYL PHENYL ETHER
7400	UG/KG	FLUORENE
7400	UG/KG	DIETHYL PHTHALATE
7400	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
7400	UG/KG	HEXACHLOROBENZENE (HCB)
7400J	UG/KG	4-BROMOPHENYL PHENYL ETHER
7400	UG/KG	PHENANTHRENE
7400	UG/KG	ANTHRACENE
7400J	UG/KG	DI-N-BUTYLPHTHALATE
7400	UG/KG	FLUORANTHENE
7400	UG/KG	PYRENE
340J	UG/KG	BENZYL BUTYL PHTHALATE
7400	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
7400	UG/KG	BENZO(A)ANTHRACENE
1500	UG/KG	CHRYSENE
7400	UG/KG	3,3'-DICHLOROBENZIDINE
7400	UG/KG	DI-N-OCTYLPHTHALATE
7400	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
7400J	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
7400	UG/KG	BENZO-A-PYRENE
7400	UG/KG	INDENO (1,2,3-CD) PYRENE
7400	UG/KG	DIBENZO(A,H)ANTHRACENE
7400	UG/KG	BENZO(GHI)PERYLENE
7400	UG/KG	2-CHLOROPHENOL
7400	UG/KG	2-NITROPHENOL
7400	UG/KG	PHENOL
7400	UG/KG	2,4-DIMETHYLPHENOL
7400	UG/KG	2,4-DICHLOROPHENOL
7400	UG/KG	2,4,6-TRICHLOROPHENOL
37000	UG/KG	4-CHLORO-3-METHYLPHENOL
37000	UG/KG	2,4-DINITROPHENOL
37000	UG/KG	2-METHYL-4,6-DINITROPHENOL
37000	UG/KG	PENTACHLOROPHENOL
55	*	4-NITROPHENOL
		MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-58
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3700U	BENZOIC ACID
740U	2-METHYLPHENOL
740U	4-METHYLPHENOL
3700U	2,4,5-TRICHLOROPHENOL
740U	ANILINE
740U	BENZYL ALCOHOL
740U	4-CHLOROANILINE
740U	DIBENZOFURAN
740U	2-METHYL NAPHTHALENE
3700U	2-NITROANILINE
3700U	3-NITROANILINE
3700U	4-NITROANILINE
3000J	5 UNIDENTIFIED COMPOUNDS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REC IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 765R SAMPLE TYPE: SEDIM

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOAF SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-1.3-65
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02272 INORG SAMPLE NO.: MEC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GRR

*****REMARKS*****

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FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#U-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6800	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
6800	UG/KG	1,3-DICHLOROBENZENE
6800	UG/KG	1,4-DICHLOROBENZENE
6800	UG/KG	1,2-DICHLOROBENZENE
6800	UG/KG	BIS(2-CHLOROETHYL) ETHER
6800	UG/KG	HEXACHLOROETHANE
6800	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
6800	UG/KG	N-NITROSODI-N-PROPYLAMINE
6800	UG/KG	NITROBENZENE
6800	UG/KG	HEXACHLOROBUTADIENE
6800	UG/KG	1,2,4-TRICHLOROBENZENE
6800	UG/KG	NAPHTHALENE
6800	UG/KG	BIS(2-CHLOROETHOXY) METHANE
6800	UG/KG	ISOPHORONE
6800	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
6800	UG/KG	2-CHLORONAPHTHALENE
6800	UG/KG	ACENAPHTHYLENE
6800	UG/KG	ACENAPHTHENE
6800	UG/KG	DIMETHYL PHTHALATE
6800	UG/KG	2,4-DINITROTOLUENE
6800	UG/KG	2,6-DINITROTOLUENE
6800	UG/KG	4-CHLOROPHENYL PHENYL ETHER
6800	UG/KG	FLUORENE
6800	UG/KG	DIETHYL PHTHALATE
6800	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
6800	UG/KG	HEXACHLOROBENZENE (HCB)
6800	UG/KG	4-BROMOPHENYL PHENYL ETHER
6800J	UG/KG	PHENANTHRENE
6800	UG/KG	ANTHRACENE
6800	UG/KG	DI-N-BUTYLPHTHALATE
6800J	UG/KG	FLUORANTHENE
6800	UG/KG	PYRENE
6800	UG/KG	BENZYL BUTYL PHTHALATE
6800J	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
6800	UG/KG	BENZO(A)ANTHRACENE
6800	UG/KG	CHRYSENE
6800	UG/KG	3,3'-DICHLOROBENZIDINE
6800	UG/KG	DI-N-OCTYLPHTHALATE
6800	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6800	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6800J	UG/KG	BENZO-A-PYRENE
6800	UG/KG	INDENO (1,2,3-CD) PYRENE
6800	UG/KG	DIBENZO(A,H)ANTHRACENE
6800	UG/KG	BENZO(GHI)PERYLENE
6800	UG/KG	2-CHLOROPHENOL
6800	UG/KG	2-NITROPHENOL
6800	UG/KG	PHENOL
6800	UG/KG	2,4-DIMETHYLPHENOL
6800	UG/KG	2,4-DICHLOROPHENOL
6800	UG/KG	2,4,6-TRICHLOROPHENOL
6800	UG/KG	4-CHLORO-3-METHYLPHENOL
34000	UG/KG	2,4-DINITROPHENOL
34000	UG/KG	2-METHYL-4,6-DINITROPHENOL
34000	UG/KG	PENTACHLOROPHENOL
34000	UG/KG	4-NITROPHENOL
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-68
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2772 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3400U	BENZOIC ACID
680U	2-METHYLPHENOL
680U	4-METHYLPHENOL
3400U	2,4,5-TRICHLOROPHENOL
680U	ANILINE
680U	BENZYL ALCOHOL
680U	4-CHLOROANILINE
680U	DIBENZOFURAN
680U	2-METHYL NAPHTHALENE
3400U	2-NITROANILINE
3400U	3-NITROANILINE
3400U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/21/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ANNISTON SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A15
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4606 DPG SAMPLE NO: D2277 INORG SAMPLE NO.: NDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
270000	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
270000	UG/KG	1,3-DICHLOROBENZENE
270000	UG/KG	1,4-DICHLOROBENZENE
270000	UG/KG	1,2-DICHLOROBENZENE
270000	UG/KG	BIS(2-CHLOROETHYL) ETHER
270000	UG/KG	HEXACHLOROETHANE
270000	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
270000	UG/KG	N-NITROSODI-N-PROPYLAMINE
270000	UG/KG	NITROBENZENE
270000	UG/KG	HEXACHLOROBUTADIENE
270000	UG/KG	1,2,4-TRICHLOROBENZENE
13000J	UG/KG	NAPHTHALENE
270000	UG/KG	BIS(2-CHLOROETHOXY) METHANE
270000	UG/KG	ISOPHORONE
270000	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
270000	UG/KG	2-CHLORONAPHTHALENE
270000	UG/KG	ACENAPHTHYLENE
270000	UG/KG	ACENAPHTHENE
270000	UG/KG	DIMETHYL PHTHALATE
270000	UG/KG	2,4-DINITROTOLUENE
270000	UG/KG	2,6-DINITROTOLUENE
270000	UG/KG	4-CHLOROPHENYL PHENYL ETHER
270000	UG/KG	FLUORENE
270000	UG/KG	DIETHYL PHTHALATE
22000J	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
270000	UG/KG	HEXACHLOROBENZENE (HCB)
270000	UG/KG	4-BROMOPHENYL PHENYL ETHER
270000	UG/KG	PHENANTHRENE
270000	UG/KG	ANTHRACENE
270000	UG/KG	DI-N-BUTYLPHTHALATE
270000	UG/KG	FLUORANTHENE
270000	UG/KG	PYRENE
270000	UG/KG	BENZYL BUTYL PHTHALATE
270000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
270000	UG/KG	BENZO(A)ANTHRACENE
270000	UG/KG	CHRYSENE
540000	UG/KG	3,3'-DICHLOROBENZIDINE
270000	UG/KG	DI-N-OCTYLPHTHALATE
270000	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
270000	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
270000J	UG/KG	BENZO-A-PYRENE
270000	UG/KG	INDENO (1,2,3-CD) PYRENE
270000	UG/KG	DIBENZO(A,H)ANTHRACENE
270000	UG/KG	BENZO(GHI)PERYLENE
270000	UG/KG	2-CHLOROPHENOL
270000	UG/KG	2-NITROPHENOL
270000	UG/KG	PHENOL
270000	UG/KG	2,4-DIMETHYLPHENOL
270000	UG/KG	2,4-DICHLOROPHENOL
270000	UG/KG	2,4,6-TRICHLOROPHENOL
270000	UG/KG	4-CHLORO-3-METHYLPHENOL
1400000	UG/KG	2,4-DINITROPHENOL
1400000	UG/KG	2-METHYL-4,6-DINITROPHENOL
1400000	UG/KG	PENTACHLOROPHENOL
1400000	UG/KG	4-NITROPHENOL
26	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG.IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A18
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	IN: UG/KG	COMPOUND NAME
140000U		BENZOIC ACID
27000U		2-METHYLPHENOL
27000U		4-METHYLPHENOL
140000U		2,4,5-TRICHLOROPHENOL
27000U		ANILINE
27000U		BENZYL ALCOHOL
27000U		4-CHLOROANILINE
27000U		DIBENZOFURAN
27000U		2-METHYL NAPHTHALENE
140000U		2-NITROANILINE
140000U		3-NITROANILINE
140000U		4-NITROANILINE
N		PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADINE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKD

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
1100U	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
1100U	UG/KG	1,3-DICHLOROBENZENE
1100U	UG/KG	1,4-DICHLOROBENZENE
1100U	UG/KG	1,2-DICHLOROBENZENE
1100U	UG/KG	BIS(2-CHLOROETHYL) ETHER
1100U	UG/KG	HEXACHLOROETHANE
1100U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
1100U	UG/KG	N-NITROSODI-N-PROPYLAMINE
1100U	UG/KG	NITROBENZENE
1100U	UG/KG	HEXACHLOROBUTADIENE
1100U	UG/KG	1,2,4-TRICHLOROBENZENE
1100U	UG/KG	NAPHTHALENE
1100U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
1100U	UG/KG	ISOPHORONE
1100U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
1100U	UG/KG	2-CHLORONAPHTHALENE
1100U	UG/KG	ACENAPHTHYLENE
1100U	UG/KG	ACENAPHTHENE
1100U	UG/KG	DIMETHYL PHTHALATE
1100U	UG/KG	2,4-DINITROTOLUENE
1100U	UG/KG	2,6-DINITROTOLUENE
1100U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1100U	UG/KG	FLUORENE
1100U	UG/KG	DIETHYL PHTHALATE
1100U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1100U	UG/KG	HEXACHLOROBENZENE (HCB)
1100U	UG/KG	4-BROMOPHENYL PHENYL ETHER
1100U.1	UG/KG	PHENANTHRENE
1100U	UG/KG	ANTHRACENE
590J	UG/KG	DI-N-BUTYLPHTHALATE
530J	UG/KG	FLUORANTHENE
1100U	UG/KG	PYRENE
1100U	UG/KG	BENZYL BUTYL PHTHALATE
2400J	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
1100U	UG/KG	BENZO(A)ANTHRACENE
1100U	UG/KG	CHRYSENE
1100U	UG/KG	3,3'-DICHLOROBENZIDINE
1100U	UG/KG	DI-N-OCTYLPHTHALATE
1100U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
1100U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
1100U.1	UG/KG	BENZO-A-PYRENE
1100U	UG/KG	INDENO (1,2,3-CD) PYRENE
1100U	UG/KG	DIBENZO(A,H)ANTHRACENE
1100U	UG/KG	BENZO(GHI)PERYLENE
1100U	UG/KG	2-CHLOROPHENOL
1100U	UG/KG	2-NITROPHENOL
1100U	UG/KG	PHENOL
1100U	UG/KG	2,4-DIMETHYLPHENOL
1100U	UG/KG	2,4-DICHLOROPHENOL
1100U	UG/KG	2,4,6-TRICHLOROPHENOL
1100U	UG/KG	4-CHLORO-3-METHYLPHENOL
5600U	UG/KG	2,4-DINITROPHENOL
5600U	UG/KG	2-METHYL-4,6-DINITROPHENOL
5600U	UG/KG	PENTACHLOROPHENOL
5600U	UG/KG	4-NITROPHENOL
70	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-38
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
5600U	BENZOIC ACID
1100U	2-METHYLPHENOL
900J	4-METHYLPHENOL
5600U	2,4,5-TRICHLOROPHENOL
1100U	ANILINE
1100U	BENZYL ALCOHOL
1100U	4-CHLOROANILINE
1100U	DIBENZOFURAN
1100U	2-METHYL NAPHTHALENE
5600U	2-NITROANILINE
5600U	3-NITROANILINE
5600U	4-NITROANILINE
20000J	5 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL
STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
390U	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
390U	UG/KG	1,3-DICHLOROBENZENE
390U	UG/KG	1,4-DICHLOROBENZENE
390U	UG/KG	1,2-DICHLOROBENZENE
390U	UG/KG	BIS(2-CHLOROETHYL) ETHER
390U	UG/KG	HEXACHLOROETHANE
390U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
390U	UG/KG	N-NITROSODI-N-PROPYLAMINE
390U	UG/KG	NITROBENZENE
390U	UG/KG	HEXACHLOROBUTADIENE
390U	UG/KG	1,2,4-TRICHLOROBENZENE
390U	UG/KG	NAPHTHALENE
390U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
390U	UG/KG	ISOPHORONE
390U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
390U	UG/KG	2-CHLORONAPHTHALENE
390U	UG/KG	ACENAPHTHILENE
390U	UG/KG	ACENAPHTHENE
390U	UG/KG	DIMETHYL PHTHALATE
390U	UG/KG	2,4-DINITROTOLUENE
390U	UG/KG	2,6-DINITROTOLUENE
390U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
390U	UG/KG	FLUORENE
390U	UG/KG	DIETHYL PHTHALATE
390U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
390U	UG/KG	HEXACHLOROBENZENE (HCB)
390UJ	UG/KG	4-BROMOPHENYL PHENYL ETHER
390U	UG/KG	PHENANTHRENE
390U	UG/KG	ANTHRACENE
390UJ	UG/KG	DI-N-BUTYLPHTHALATE
390U	UG/KG	FLUORANTHENE
390U	UG/KG	PYRENE
390UJ	UG/KG	BENZYL BUTYL PHTHALATE
390U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
390U	UG/KG	BENZO(A)ANTHRACENE
780U	UG/KG	CHRYSENE
390U	UG/KG	3,3'-DICHLORORENZIDINE
390U	UG/KG	DI-N-OCTYLPHTHALATE
390U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
390U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
390U	UG/KG	BENZO-A-PYRENE
390U	UG/KG	INDENO (1,2,3-CD) PYRENE
390U	UG/KG	DIBENZO(A,H)ANTHRACENE
390U	UG/KG	BENZO(GHI)PERYLENE
390U	UG/KG	2-CHLOROPHENOL
390U	UG/KG	2-NITROPHENOL
390U	UG/KG	PHENOL
390U	UG/KG	2,4-DIMETHYLPHENOL
390U	UG/KG	2,4-DICHLOROPHENOL
390U	UG/KG	2,4,6-TRICHLOROPHENOL
2000U	UG/KG	4-CHLORO-3-METHYLPHENOL
2000U	UG/KG	2,4-DINITROPHENOL
2000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
2000U	UG/KG	PENTACHLOROPHENOL
2000U	UG/KG	4-NITROPHENOL
14	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT).

SAMPLE NO.: 85C 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDR645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
2000U	BENZOIC ACID
390U	2-METHYLPHENOL
390U	4-METHYLPHENOL
2000U	2,4,5-TRICHLOROPHENOL
390U	ANILINE
390U	BENZYL ALCOHOL
390U	4-CHLOROANILINE
390U	DIBENZOFURAN
390U	2-METHYL NAPHTHALENE
2000U	2-NITROANILINE
2000U	3-NITROANILINE
2000U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7662 SAMPLE TYPE: SOILSPK

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: ADRIANCE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L5-S8 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR502 INORG SAMPLE NO.: MD
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3900	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
3900	UG/KG	1,3-DICHLOROBENZENE
3900	UG/KG	1,4-DICHLOROBENZENE
3900	UG/KG	1,2-DICHLOROBENZENE
3900	UG/KG	BIS(2-CHLOROETHYL) ETHER
3900	UG/KG	HEXACHLOROETHANE
3900	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
3900	UG/KG	N-NITROSODI-N-PROPYLAMINE
3900	UG/KG	NITROBENZENE
3900	UG/KG	HEXACHLOROBUTADIENE
58%	UG/KG	1,2,4-TRICHLOROBENZENE
76%	UG/KG	NAPHTHALENE
3900	UG/KG	BIS(2-CHLOROETHOXY) METHANE
3900	UG/KG	ISOPHORONE
3900	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
3900	UG/KG	2-CHLORONAPHTHALENE
65%	UG/KG	ACENAPHTHYLENE
420	UG/KG	ACENAPHTHENE
3900	UG/KG	DIMETHYL PHTHALATE
3900	UG/KG	2,4-DINITROTOLUENE
3900	UG/KG	2,6-DINITROTOLUENE
3900	UG/KG	4-CHLOROPHENYL PHENYL ETHER
3900	UG/KG	FLUORENE
3900	UG/KG	DIETHYL PHTHALATE
70%	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3900	UG/KG	HEXACHLOROBENZENE (HCB)
3900	UG/KG	4-BROMOPHENYL PHENYL ETHER
89%	UG/KG	PHENANTHRENE
3900	UG/KG	ANTHRACENE
3900	UG/KG	DI-N-BUTYLPHTHALATE
84%	UG/KG	FLUORANTHENE
3900	UG/KG	PYRENE
3900	UG/KG	BENZYL BUTYL PHTHALATE
74%	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
3900	UG/KG	BENZO(A)ANTHRACENE
3900	UG/KG	CHRYSENE
7800	UG/KG	3,3'-DICHLOROBENZIDINE
3900	UG/KG	DI-N-OCTYLPHTHALATE
3900	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
3900	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
3900	UG/KG	BENZO-A-PYRENE
3900	UG/KG	INDENO (1,2,3-CD) PYRENE
3900	UG/KG	DIBENZO(A,H)ANTHRACENE
3900	UG/KG	BENZO(GHI)PERYLENE
3900	UG/KG	2-CHLOROPHENOL
3900	UG/KG	2-NITROPHENOL
3900	UG/KG	PHENOL
69%	UG/KG	2,4-DIMETHYLPHENOL
3900	UG/KG	2,4-DICHLOROPHENOL
58%	UG/KG	2,4,6-TRICHLOROPHENOL
3900	UG/KG	4-CHLORO-3-METHYLPHENOL
19000	UG/KG	2,4-DINITROPHENOL
46%	UG/KG	2-METHYL-4,6-DINITROPHENOL
19000	UG/KG	PENTACHLOROPHENOL
19000	UG/KG	4-NITROPHENOL
13	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7662 SAMPLE TYPE: SOILSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL
STATION I.D.: AD-L5-98 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB502 INORG SAMPLE NO.: MD
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	IN: UG/KG	COMPOUND NAME
1900U		BENZOIC ACID
390U		2-METHYLPHENOL
390U		4-METHYLPHENOL
1400J		2,4,5-TRICHLOROPHENOL
390U		ANILINE
390U		BENZYL ALCOHOL
390U		4-CHLOROANILINE
390U		DIBENZOFURAN
390U		2-METHYL NAPHTHALENE
1900U		2-NITROANILINE
1900U		3-NITROANILINE
1900U		4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7661 SAMPLE TYPE: RLRSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: HSF
SOURCE: ADDADIME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SS-OR (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: M P
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D4501 INORG SAMPLE NO.: MD0645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
11U	UG/KG	CHLOROMETHANE
11U	UG/KG	BROMOMETHANE
11U	UG/KG	VINYL CHLORIDE
11U	UG/KG	CHLOROETHANE
90BJ	UG/KG	METHYLENE CHLORIDE
11U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
11U	UG/KG	1,1-DICHLOROETHANE
11U	UG/KG	TRANS-1,2-DICHLOROETHENE
11U	UG/KG	CHLOROFORM
11U	UG/KG	1,2-DICHLOROETHANE
11U	UG/KG	1,1,1-TRICHLOROETHANE
11U	UG/KG	CARBON TETRACHLORIDE
11U	UG/KG	BROMODICHLOROMETHANE
11U	UG/KG	1,2-DICHLOROPROPANE
11U	UG/KG	TRANS-1,3-DICHLOROPROPENE
11U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
11U	UG/KG	BENZENE
11U	UG/KG	DIBROMOCHLOROMETHANE
11U	UG/KG	1,1,2-TRICHLOROETHANE
11U	UG/KG	CIS-1,3-DICHLOROPROPENE
11U	UG/KG	2-CHLOROETHYLVINYL ETHER
11UJ	UG/KG	BROMOFORM
11U	UG/KG	1,1,2,2-TETRACHLOROETHANE
11U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
11U	UG/KG	TOLUENE
11U	UG/KG	CHLOROBENZENE
11U	UG/KG	ETHYL BENZENE
11U	UG/KG	TOTAL XYLENES
14	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: AGRICULTURE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-OR (REGION IV OC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKR

PURGES

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
4000	ACETONE
110	METHYL ETHYL KETONE
110	CARBON DISULFIDE
110	METHYL BUTYL KETONE
110	METHYL ISOBUTYL KETONE
110	STYRENE
110	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: MSC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: MS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AQ-US-18
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W W
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2765 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
4.00	UG/KG	ALDRIN	
4.00	UG/KG	HEPTACHLOR	
4.00	UG/KG	HEPTACHLOR EPOXIDE	
4.00	UG/KG	ALPHA-BHC	
4.00	UG/KG	BETA-BHC	
4.00	UG/KG	GAMMA-BHC (LINDANE)	
4.00	UG/KG	DELTA-BHC	
4.00	UG/KG	ENDOSULFAN I (ALPHA)	
50	UG/KG	DIELDRIN	
8.00	UG/KG	4,4'-DDT (P,P'-DDT)	
8.00	UG/KG	4,4'-DDE (P,P'-DDE)	
8.00	UG/KG	4,4'-DDD (P,P'-DDD)	
8.00	UG/KG	ENDRIN	
8.00	UG/KG	ENDOSULFAN II (BETA)	
8.00	UG/KG	ENDOSULFAN SULFATE	
180.IN	UG/KG	CHLORDANE (TECH. MIXTURE)	/1
400	UG/KG	PCB-1242 (AROCLOR 1242)	
800.J	UG/KG	PCB-1254 (AROCLOR 1254)	
400	UG/KG	PCB-1221 (AROCLOR 1221)	
400	UG/KG	PCB-1232 (AROCLOR 1232)	
400	UG/KG	PCB-1248 (AROCLOR 1248)	
800	UG/KG	PCB-1260 (AROCLOR 1260)	
400	UG/KG	PCB-1016 (AROCLOR 1016)	
800	UG/KG	TOXAPHENE	
8.00	UG/KG	ENDRIN ALDEHYDE	
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)	
--	UG/KG	CHLORDENE /2	
--	UG/KG	ALPHA-CHLORDENE /2	
--	UG/KG	GAMMA-CHLORDENE /2	
--	UG/KG	1-HYDROXYCHLORDENE /2	
--	UG/KG	GAMMA-CHLORDANE /2	
--	UG/KG	TRANS-NONACHLOR /2	
--	UG/KG	ALPHA-CHLORDANE /2	
--	UG/KG	CIS-NONACHLOR /2	
400	UG/KG	METHOXYCHLOR	
8.00	UG/KG	ENDRIN KETONE	
50	%	MOISTURE	

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OF METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 45-060 PROGRAM ELEMENT: HSF
SOURCE: AQUADINE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SI-45
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W B
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2268 INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.00	UG/KG	ALDRIN
4.00	UG/KG	HEPTACHLOR
4.00	UG/KG	HEPTACHLOR EPOXIDE
4.00	UG/KG	ALPHA-BHC
4.00	UG/KG	BETA-BHC
4.00	UG/KG	GAMMA-BHC (LINDANE)
4.00	UG/KG	DELTA-BHC
4.00	UG/KG	ENDOSULFAN I (ALPHA)
8.00	UG/KG	DIELDRIN
8.00	UG/KG	4,4'-DDT (P,P'-DDT)
8.00	UG/KG	4,4'-DDE (P,P'-DDE)
8.00	UG/KG	4,4'-DDD (P,P'-DDD)
8.00	UG/KG	ENDRIN
8.00	UG/KG	ENDOSULFAN II (BETA)
8.00	UG/KG	ENDOSULFAN SULFATE
400	UG/KG	CHLORDANE (TECH. MIXTURE) /1
400	UG/KG	PCB-1242 (AROCLOR 1242)
800J	UG/KG	PCB-1254 (AROCLOR 1254)
400	UG/KG	PCB-1221 (AROCLOR 1221)
400	UG/KG	PCB-1232 (AROCLOR 1232)
400	UG/KG	PCB-1248 (AROCLOR 1248)
800	UG/KG	PCB-1260 (AROCLOR 1260)
400	UG/KG	PCB-1016 (AROCLOR 1016)
800	UG/KG	TOXAPHENE
8.00	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
400	UG/KG	METHOXYCHLOR
8.00	UG/KG	ENDRIN KETONE
50	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7657 SAMPLE TYPE: SEDIM

PROJECT I.D.: RS-060 PROGRAM ELEMENT: HSF
SOURCE: ADDITIONAL SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-02-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RCVD: DATE/TIME 00/00/00 RCV'D BY:
SEALED:

CHEMIST: M E
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 ILORG SAMPLE NO.: MUC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.4U	UG/KG	ALDRIN
4.4U	UG/KG	HEPTACHLOR
4.4U	UG/KG	HEPTACHLOR EPOXIDE
4.4U	UG/KG	ALPHA-BHC
4.4U	UG/KG	BETA-BHC
4.4U	UG/KG	GAMMA-BHC (LINDANE)
4.4U	UG/KG	DELTA-BHC
4.4U	UG/KG	ENDOSULFAN I (ALPHA)
7.0J	UG/KG	DIELDRIN
8.8U	UG/KG	4,4'-DDT (P,P'-DDT)
8.8U	UG/KG	4,4'-DDE (P,P'-DDE)
8.8U	UG/KG	4,4'-DDD (P,P'-DDD)
8.8U	UG/KG	ENDRIN
8.8U	UG/KG	ENDOSULFAN II (BETA)
8.8U	UG/KG	ENDOSULFAN SULFATE
88U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
44U	UG/KG	PCB-1242 (AROCLOR 1242)
88U	UG/KG	PCB-1254 (AROCLOR 1254)
44U	UG/KG	PCB-1221 (AROCLOR 1221)
44U	UG/KG	PCB-1232 (AROCLOR 1232)
44U	UG/KG	PCB-1248 (AROCLOR 1248)
88U	UG/KG	PCB-1260 (AROCLOR 1260)
44U	UG/KG	PCB-1016 (AROCLOR 1016)
88U	UG/KG	TOXAPHENE
8.8U	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
44U	UG/KG	METHOXYCHLOR
8.8U	UG/KG	ENDRIN KETONE
5%	%	MOISTURE

****

FOOTNOTES
#A=AVERAGE VALUE #NA=NOT ANALYZED #NAI=INTERFERENCES
#J=ESTIMATED VALUE #N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTIFATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CO-STUDENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PRG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: ESF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: A9-L3-6S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
4.0U	UG/KG	ALDRIN	
4.0U	UG/KG	HEPTACHLOR	
4.0U	UG/KG	HEPTACHLOR EPOXIDE	
4.0U	UG/KG	ALPHA-BHC	
4.0U	UG/KG	BETA-BHC	
4.0U	UG/KG	GAMMA-BHC (LINDANE)	
4.0U	UG/KG	DELTA-BHC	
4.0U	UG/KG	ENDOSULFAN I (ALPHA)	
8.0U	UG/KG	DIELDRIN	
8.0U	UG/KG	4,4'-DDT (P,P'-DDT)	
8.0U	UG/KG	4,4'-DDE (P,P'-DDE)	
8.0U	UG/KG	4,4'-DDD (P,P'-DDD)	
8.0U	UG/KG	ENDRIN	
8.0U	UG/KG	ENDOSULFAN II (BETA)	
8.0U	UG/KG	ENDOSULFAN SULFATE	
40U	UG/KG	CHLORDANE (TECH. MIXTURE)	/1
40U	UG/KG	PCB-1242 (ARUCLOR 1242)	
80U.1	UG/KG	PCB-1254 (ARUCLOR 1254)	
40U	UG/KG	PCB-1221 (ARUCLOR 1221)	
40U	UG/KG	PCB-1232 (ARUCLOR 1232)	
40U	UG/KG	PCB-1248 (ARUCLOR 1248)	
80U	UG/KG	PCB-1260 (ARUCLOR 1260)	
40U	UG/KG	PCB-1016 (ARUCLOR 1016)	
80U	UG/KG	TOXAPHENE	
8.0U	UG/KG	ENDRIN ALDEHYDE	
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)	
--	UG/KG	CHLORDENE /2	
--	UG/KG	ALPHA-CHLORDENE /2	
--	UG/KG	GAMMA-CHLORDENE /2	
--	UG/KG	1-HYDROXYCHLORDENE /2	
--	UG/KG	GAMMA-CHLORDANE /2	
--	UG/KG	TRANS-NONACHLOR /2	
--	UG/KG	ALPHA-CHLORDANE /2	
--	UG/KG	CIS-NONACHLOR /2	
40U	UG/KG	METHOXYCHLOR	
8.0U	UG/KG	ENDRIN KETONE	
50	%	MOISTURE	

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAT=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: HSF
SOURCE: AQUADALE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AP-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W B
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
3200U	UG/KG	ALDRIN	
3200U	UG/KG	HEPTACHLOR	
3200U	UG/KG	HEPTACHLOR EPOXIDE	
3200U	UG/KG	ALPHA-BHC	
3200U	UG/KG	BETA-BHC	
3200U	UG/KG	GAMMA-BHC (LINDANE)	
3200U	UG/KG	DELTA-BHC	
3200U	UG/KG	ENDOSULFAN I (ALPHA)	
6500U	UG/KG	DIELDRIN	
6500U	UG/KG	4,4'-DDT (P,P'-DDT)	
6500U	UG/KG	4,4'-DDE (P,P'-DDE)	
6500U	UG/KG	4,4'-DDD (P,P'-DDD)	
6500U	UG/KG	ENDRIN	
6500U	UG/KG	ENDOSULFAN II (BETA)	
6500U	UG/KG	ENDOSULFAN SULFATE	
32000U	UG/KG	CHLORDANE (TECH. MIXTURE)	/1
32000U	UG/KG	PCB-1242 (AROCLOR 1242)	
94000J	UG/KG	PCB-1254 (AROCLOR 1254)	
32000U	UG/KG	PCB-1221 (AROCLOR 1221)	
32000U	UG/KG	PCB-1232 (AROCLOR 1232)	
32000U	UG/KG	PCB-1248 (AROCLOR 1248)	
65000U	UG/KG	PCB-1260 (AROCLOR 1260)	
32000U	UG/KG	PCB-1016 (AROCLOR 1016)	
65000U	UG/KG	TOXAPHENE	
6500U	UG/KG	ENDRIN ALDEHYDE	
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)	
--	UG/KG	CHLORDENE /2	
--	UG/KG	ALPHA-CHLORDENE /2	
--	UG/KG	GAMMA-CHLORDENE /2	
--	UG/KG	1-HYDROXYCHLORDENE /2	
--	UG/KG	GAMMA-CHLORDANE /2	
--	UG/KG	TRANS-NONACHLOR /2	
--	UG/KG	ALPHA-CHLORDANE /2	
--	UG/KG	CIS-NONACHLOR /2	
3200U	UG/KG	METHOXYCHLOR	
6500U	UG/KG	ENDRIN KETONE	
26	%	MOISTURE	

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: OPELIKA STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 08466 INORG SAMPLE NO.: MOC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
130	UG/KG	ALDRIN	
130	UG/KG	HEPTACHLOR	
130	UG/KG	HEPTACHLOR EPOXIDE	
130	UG/KG	ALPHA-BHC	
130	UG/KG	BETA-BHC	
130	UG/KG	GAMMA-BHC (LINDANE)	
130	UG/KG	DELTA-BHC	
130	UG/KG	ENDOSULFAN I (ALPHA)	
60	UG/KG	DIELDRIN	
260	UG/KG	4,4'-DDT (P,P'-DDT)	
260	UG/KG	4,4'-DDE (P,P'-DDE)	
260	UG/KG	4,4'-DDD (P,P'-DDD)	
260	UG/KG	ENDRIN	
260	UG/KG	ENDOSULFAN II (BETA)	
260	UG/KG	ENDOSULFAN SULFATE	
410.TH	UG/KG	CHLORDANE (TECH. MIXTURE)	/1
1300	UG/KG	PCB-1242 (AROCLOR 1242)	
2600J	UG/KG	PCB-1254 (AROCLOR 1254)	
1300	UG/KG	PCB-1221 (AROCLOR 1221)	
1300	UG/KG	PCB-1232 (AROCLOR 1232)	
1300	UG/KG	PCB-1248 (AROCLOR 1248)	
2600	UG/KG	PCB-1260 (AROCLOR 1260)	
1300	UG/KG	PCB-1016 (AROCLOR 1016)	
2600	UG/KG	TOXAPHENE	
260	UG/KG	ENDRIN ALDEHYDE	
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)	
--	UG/KG	CHLORDENE /2	
--	UG/KG	ALPHA-CHLORDENE /2	
--	UG/KG	GAMMA-CHLORDENE /2	
--	UG/KG	1-HYDROXYCHLORDENE /2	
--	UG/KG	GAMMA-CHLORDANE /2	
--	UG/KG	TRANS-NONACHLOR /2	
--	UG/KG	ALPHA-CHLORDANE /2	
--	UG/KG	CIS-NONACHLOR /2	
1300	UG/KG	METHOXYCHLOR	
260	UG/KG	ENDRIN KETONE	
70	%	MOISTURE	

****

FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7662 SAMPLE TYPE: SOILSPK

PROJECT NO.: 45-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOCE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L5-95 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: M B
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB502 INORG SAMPLE NO.: NO
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKD

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
2.3U	UG/KG	ALDRIN	
2.3U	UG/KG	HEPTACHLOR	
2.3U	UG/KG	HEPTACHLOR EPOXIDE	
2.3U	UG/KG	ALPHA-BHC	
2.3U	UG/KG	BETA-BHC	
100%	UG/KG	GAMMA-BHC (LINDANE)	
2.3U	UG/KG	DELTA-BHC	
2.3U	UG/KG	ENDOSULFAN I (ALPHA)	
4.6U	UG/KG	DIELDRIN	
4.6U	UG/KG	4,4'-DDT (P,P'-DDT)	
4.6U	UG/KG	4,4'-DDE (P,P'-DDE)	
4.6U	UG/KG	4,4'-DDD (P,P'-DDD)	
4.6U	UG/KG	ENDRIN	
4.6U	UG/KG	ENDOSULFAN II (BETA)	
4.6U	UG/KG	ENDOSULFAN SULFATE	
23U	UG/KG	CHLORDANE (TECH. MIXTURE)	/1
23U	UG/KG	PCB-1242 (ARUCLOR 1242)	
175%	UG/KG	PCB-1254 (ARUCLOR 1254)	
23U	UG/KG	PCB-1221 (ARUCLOR 1221)	
23U	UG/KG	PCB-1232 (ARUCLOR 1232)	
23U	UG/KG	PCB-1248 (ARUCLOR 1248)	
46U	UG/KG	PCB-1260 (ARUCLOR 1260)	
23U	UG/KG	PCB-1016 (ARUCLOR 1016)	
46U	UG/KG	TOXAPHENE	
4.6U	UG/KG	ENDRIN ALDEHYDE	
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)	
--	UG/KG	CHLORDENE /2	
--	UG/KG	ALPHA-CHLORDENE /2	
--	UG/KG	GAMMA-CHLORDENE /2	
--	UG/KG	1-HYDROXYCHLORDENE /2	
--	UG/KG	GAMMA-CHLORDANE /2	
--	UG/KG	TRANS-NONACHLOR /2	
--	UG/KG	ALPHA-CHLORDANE /2	
--	UG/KG	CIS-NONACHLOR /2	
23U	UG/KG	METHOXYCHLOR	
4.6U	UG/KG	ENDRIN KETONE	
13	%	MOISTURE	

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAT=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOCK SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-ES-OR (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: N HAUSER RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W B
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GAB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2.3U	UG/KG	ALDRIN
2.3U	UG/KG	HEPTACHLOR
2.3U	UG/KG	HEPTACHLOR EPOXIDE
2.3U	UG/KG	ALPHA-BHC
2.3U	UG/KG	BETA-BHC
2.3U	UG/KG	GAMMA-BHC (LINDANE)
2.3U	UG/KG	DELTA-BHC
4.6U	UG/KG	ENDOSULFAN I (ALPHA)
4.6U	UG/KG	DIELDRIN
4.6U	UG/KG	4,4'-DDT (P,P'-DDT)
4.6U	UG/KG	4,4'-DDE (P,P'-DDE)
4.6U	UG/KG	4,4'-DDD (P,P'-DDD)
4.6U	UG/KG	ENDRIN
4.6U	UG/KG	ENDOSULFAN II (BETA)
230	UG/KG	ENDOSULFAN SULFATE
230	UG/KG	CHLORDANE (TECH. MIXTURE) /1
460J	UG/KG	PCB-1242 (AROCLOR 1242)
230	UG/KG	PCB-1254 (AROCLOR 1254)
230	UG/KG	PCB-1221 (AROCLOR 1221)
230	UG/KG	PCB-1232 (AROCLOR 1232)
460	UG/KG	PCB-1248 (AROCLOR 1248)
230	UG/KG	PCB-1260 (AROCLOR 1260)
460	UG/KG	PCB-1016 (AROCLOR 1016)
4.6U	UG/KG	TOXAPHENE
NA	UG/KG	ENDRIN ALDEHYDE
--	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
23U	UG/KG	METHOXYCHLOR
4.6U	UG/KG	ENDRIN KETONE
14	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *MAT-INTERFERENCES
*J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

13/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

JECT NO.: 85-060 PROGRAM ELEMENT: NSF
ICE: AQUADOME SITE
(: DECATUR STATE: AL

TION I.D.: AD-MW-4
ET STATION NO:

PLE COLLECTION: START DATE/TIME 04/24/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

LECTED BY: B BENOZ RECEIVED FROM:
PLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
LED:

NIST:
LYTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
TRACT LABORATORY(ORGANIC): COMPUCHEM
TRACT LABORATORY(INORGANIC): RMAL

ARK:
ARK:

PLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

FOOTNOTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

0/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7652 SAMPLE TYPE: WATSPK

ROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: AQUADOME SITE
ITY: DECATUR STATE: AL

TATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
UREY STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/24/85
AMPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: B HANSEN RECEIVED FROM:
AMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
EALED:

EMIST:
NALYTICAL METHOD:

ASE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDB642
ONTRACT LABORATORY(ORGANIC): COMPUCHEM
ONTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS*

****

FOOTNOTES*
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
70%	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
58%	UG/L	1,2,4-TRICHLOROBENZENE
76%	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
65%	UG/L	ACENAPHTHYLENE
113	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
89%	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTILPHTHALATE
84%	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
74%	UG/L	BIS(2-ETHILHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
68%	UG/L	2,4-DIMETHILPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
58%	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
46%	UG/L	2-METHIL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7652 SAMPLE TYPE: WATSPK

OJECT NO.: 85-060 PROGRAM ELEMENT: NSF
URCE: AQUADOME SITE
TY: DECATUR STATE: AL

ATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
URET STATION NO:

MPLE COLLECTION: START DATE/TIME 04/24/85
MPLE COLLECTION: STOP DATE/TIME 00/00/00

LLECTED BY: B HANSEN RECEIVED FROM:
MPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
ALED:

EMIST:
ALYTICAL METHOD:

SE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDR642
NTRACT LABORATORY(ORGANIC): COMPUCHEM
NTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS*

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE
60J	1 UNIDENTIFIED COMPOUND

FOOTNOTES*
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: BSC 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB700 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENLYAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

0/23/85 EXTRACTABLE ORGANIC ANALYSIS, MTSC
WATER

SAMPLE NO.: RSC 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALITICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDR643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALIZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7642 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
3.2J	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: MONWL

CT NO.: 85-060 PROGRAM ELEMENT: NSF
E: AQUADOME SITE
DECATUR STATE: AL
ON I.D.: AD-US-1W
T STATION NO:

E COLLECTION: START DATE/TIME 04/23/85
E COLLECTION: STOP DATE/TIME 00/00/00

CTED BY: B BENOZ RECEIVED FROM:
E REC'D: DATE/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
:ACT LABORATORY(ORGANIC): COMPUCHEM
:ACT LABORATORY(INORGANIC): RMAL

K:
K:

E LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB
MARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

OTNOTES***
=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: ASC 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10U	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10UJ	UG/L	1,2-DICHLOROETHANE
10U	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10UJ	UG/L	TRANS-1,3-DICHLOROPROPENE
10U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10UJ	UG/L	2-CHLOROETHYLVINYL ETHER
10U	UG/L	BROMOFORM
17	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10UJ	UG/L	TOLUENE
10U	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

3/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AQUADOME SITE
: DECATUR STATE: AL

ION I.D.: AD-SN-2W
T STATION NO:

LE COLLECTION: START DATE/TIME 04/23/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
YTICAL METHOD:

NO.: 8006 ORG SAMPLE NO: 72266 INORG SAMPLE NO.: MDC063
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RR:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

OOTNOTES***
A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
I=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
R=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10UJ	UG/L	CHLOROETHANE
10U	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10UJ	UG/L	1,2-DICHLOROETHANE
10U	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10UJ	UG/L	TRANS-1,3-DICHLOROPROPENE
10U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10UJ	UG/L	2-CHLOROETHYLVINYL ETHER
10U	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10UJ	UG/L	TOLUENE
10U	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: MONWL

JECT NO.: 85-060 PROGRAM ELEMENT: NSF
RCE: AQUADOME SITE
Y: DECATUR STATE: AL

TION I.D.: AD-LI-4W
RET STATION NO:

PLE COLLECTION: START DATE/TIME 04/23/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

LECTED BY: B HANSEN RECEIVED FROM:
PLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
LED:

MIST:
LYTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
TRACT LABORATORY(ORGANIC): COMPUCHEM
TRACT LABORATORY(INORGANIC): RMAL

ARK:
ARK:

PLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES***
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7648 , SAMPLE TYPE: MONWL

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-79
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
100	UG/L	CHLOROMETHANE
100	UG/L	BROMOMETHANE
100	UG/L	VINYL CHLORIDE
100.J	UG/L	CHLOROETHANE
100	UG/L	METHYLENE CHLORIDE
100	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
100	UG/L	1,1-DICHLOROETHANE
100	UG/L	TRANS-1,2-DICHLOROETHENE
100	UG/L	CHLOROFORM
100.J	UG/L	1,2-DICHLOROETHANE
100	UG/L	1,1,1-TRICHLOROETHANE
100	UG/L	CARBON TETRACHLORIDE
100	UG/L	BROMODICHLOROMETHANE
100	UG/L	1,2-DICHLOROPROPANE
100J	UG/L	TRANS-1,3-DICHLOROPROPENE
100	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
100	UG/L	BENZENE
100	UG/L	DIBROMOCHLOROMETHANE
100	UG/L	1,1,2-TRICHLOROETHANE
100	UG/L	CIS-1,3-DICHLOROPROPENE
100.J	UG/L	2-CHLOROETHYLVINYL ETHER
100	UG/L	BROMOFORM
100	UG/L	1,1,2,2-TETRACHLOROETHANE
100	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
100.J	UG/L	TOLUENE
100	UG/L	CHLOROBENZENE
100	UG/L	ETHYL BENZENE
100	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: WSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: ASC 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRILONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
35	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
50	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
3.6J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
4.9J	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

)/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7646 SAMPLE TYPE: MONWL

ROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: ADUADONE SITE
TY: DECATUR STATE: AL

ATION I.D.: AD-L3-6W
TORET STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/23/85
AMPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: B BENOZ RECEIVED FROM:
AMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
EALED:

ENIST:
ALYTICAL METHOD:

SE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
NTRACT LABORATORY(ORGANIC): COMPUCHEM
NTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS*

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
10U	METHYL VINYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES*
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: HSC 7651 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: HSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-GS-MW
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D2283 INORG SAMPLE NO.: NO
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GNB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
8300	UG/L	CHLOROMETHANE
8300	UG/L	BROMOMETHANE
8300	UG/L	VINYL CHLORIDE
8300	UG/L	CHLOROETHANE
8300J	UG/L	METHYLENE CHLORIDE
8300	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
8300	UG/L	1,1-DICHLOROETHANE
11000	UG/L	TRANS-1,2-DICHLOROETHENE
8300	UG/L	CHLOROFORM
8300	UG/L	1,2-DICHLOROETHANE
8300J	UG/L	1,1,1-TRICHLOROETHANE
8300	UG/L	CARBON TETRACHLORIDE
8300	UG/L	BROMODICHLOROMETHANE
8300	UG/L	1,2-DICHLOROPROPANE
2200J	UG/L	TRANS-1,3-DICHLOROPROPENE
8300	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
8300	UG/L	BENZENE
8300	UG/L	DIBROMOCHLOROMETHANE
8300	UG/L	1,1,2-TRICHLOROETHANE
8300	UG/L	CIS-1,3-DICHLOROPROPENE
8300J	UG/L	2-CHLOROETHYLVINYL ETHER
8300	UG/L	BROMOFORM
8300	UG/L	1,1,2,2-TETRACHLOROETHANE
8300	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
8300J	UG/L	TOLUENE
8300	UG/L	CHLOROBENZENE
8300	UG/L	ETHYL BENZENE
8300	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7651 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LS-8W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2283 INORG SAMPLE NO.: MD
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
830U	ACETONE
830U	METHYL ETHYL KETONE
830U	CARBON DISULFIDE
830U	METHYL BUTYL KETONE
830U	METHYL ISOBUTYL KETONE
830U	STYRENE
830U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: DSF
SOURCE: ABRADMORE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: A B
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
8.7	UG/L	TRANS-1,2-DICHLOROETHENE
3.0J	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
10U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
3.6J	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
5U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
2.8J	UG/L	1,1,2,2-TETRACHLOROETHANE
92	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10UJ	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
7J	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: RSE
SOURCE: MORGANTOWN SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B MENDZ RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: M P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
100	UG/L	CHLOROMETHANE
100	UG/L	BROMOMETHANE
100	UG/L	VINYL CHLORIDE
100	UG/L	CHLOROETHANE
100J	UG/L	METHYLENE CHLORIDE
100	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
100	UG/L	1,1-DICHLOROETHANE
100	UG/L	TRANS-1,2-DICHLOROETHENE
100	UG/L	CHLOROFORM
100	UG/L	1,2-DICHLOROETHANE
100J	UG/L	1,1,1-TRICHLOROETHANE
100	UG/L	CARBON TETRACHLORIDE
100	UG/L	BROMODICHLOROMETHANE
100	UG/L	1,2-DICHLOROPROPANE
100	UG/L	TRANS-1,3-DICHLOROPROPENE
100J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
100	UG/L	BENZENE
100	UG/L	DIBROMOCHLOROMETHANE
100	UG/L	1,1,2-TRICHLOROETHANE
100	UG/L	CIS-1,3-DICHLOROPROPENE
100	UG/L	2-CHLOROETHYLVINYL ETHER
100J	UG/L	BROMOFORM
100	UG/L	1,1,2,2-TETRACHLOROETHANE
100	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
100	UG/L	TOLUENE
100J	UG/L	CHLOROBENZENE
100	UG/L	ETHYL BENZENE
100	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *P=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2776 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 850 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H BENOIT RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MUC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKB

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
3.5J	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

0/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

ROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: AQUADOME SITE
ITY: DECATUR STATE: AL

TATION I.D.: AD-MW-2
TORET STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/24/85
AMPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: B BENOZ RECEIVED FROM:
AMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
EALED:

HEMIST:
NALYTICAL METHOD:

ASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
ONTRACT LABORATORY(ORGANIC): COMPUCHEM
ONTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
30UJ	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

OJECT NO.: 85-060 PROGRAM ELEMENT: NSF
URCE: AQUADOME SITE
Y: DECATUR STATE: AL
ATION I.D.: AD-MW-3
ORET STATION NO:

MPLE COLLECTION: START DATE/TIME 04/24/85
MPLE COLLECTION: STOP DATE/TIME 00/00/00

LLECTED BY: B BENOZ RECEIVED FROM:
MPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
ALED:

EMIST:
ALYTICAL METHOD:

SE NO.: 8006 ORG SAMPLE NO: 02270 INORG SAMPLE NO.: MDC066
NTRACT LABORATORY(ORGANIC): COMPUCHEM
NTRACT LABORATORY(INORGANIC): RMAL

MARK:
MARK:

MPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

*REMARKS***

****

*FOOTNOTES***
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: BSC 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADYNE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: M P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REPARAS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10UJ	UG/L	TRANS-1,3-DICHLOROPROPENE
10U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10UJ	UG/L	2-CHLOROETHYLVINYL ETHER
10U	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
7.9	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10UJ	UG/L	TOLUENE
10U	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MIBC
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2775 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
3J	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7053 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: HSF
SOURCE: ROUNDOAK SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: K HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: P R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GRB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: R5-060 PROGRAM ELEMENT: HSF
SOURCE: BOUNDARY SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: P R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: H5C 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: H5-060
SOURCE: ADMIRALTY SITE PROGRAM ELEMENT: NSF
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-OR (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR199 INORG SAMPLE NO.: MDR642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKH

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE
*J-ESTIMATED VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*K-ACTUAL VALUE, *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
161%	UG/L	CHLOROETHANE
10U	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
95%	UG/L	TRANS-1,2-DTCHLOROETHENE
134%	UG/L	CHLOROFORM
101%	UG/L	1,2-DICHLOROETHANE
95%	UG/L	1,1,1-TRICHLOROETHANE
139%	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
327%	UG/L	TRANS-1,3-DICHLOROPROPENE
10U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
86%	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
215%	UG/L	2-CHLOROETHYLVINYL ETHER
10U	UG/L	BROMOFORM
23%	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
218%	UG/L	TOLUENE
10U	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE OPGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8199 INORG SAMPLE NO.: MDB642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

FOOTNOTES
*A-AVERAGE VALUE *NA=NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.07J	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.05U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.05U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.05U	UG/L	PCB-1221 (AROCLOR 1221)
0.05U	UG/L	PCB-1232 (AROCLOR 1232)
0.05U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.05U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 8006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADONE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4005 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXICHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.02J	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.03J	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HIDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXICHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7645 SAMPLE TYPE: MONNL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B RENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (ARUCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*NA=AVERAGE VALUE *NA=NOT ANALIZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALIZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHIDE
NA	UG/L	2,3,7,8 TCDDIDIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL
STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXICHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXICHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NRI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDR642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
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THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.58	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
5.6	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

REFERENCE NO. 3
APPENDIX C

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
AQUADOME SITE	1501 5th Ave., S.W.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
DECATUR	AL	35601	MORGAN	103	05

09 COORDINATES: LATITUDE 34N 35' 30" | LONGITUDE 86W 59' 30"

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☑ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
4, 22, 85 (MONTH DAY YEAR)	☐ ACTIVE ☑ INACTIVE	Approx. 1944 (BEGINNING YEAR) 1964 (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☑ B. EPA CONTRACTOR NUS Corporation ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ ☐ E. STATE ☐ F. STATE CONTRACTOR _____ ☐ G. OTHER _____

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
BARBARA HANSEN BEVOY	PROJECT MANAGER	NUS Corp.	(404 938-7710
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
PHIL BLACKWELL	TEAM MEMBER	"	( ) "
DOUG MUNSON	"	"	( ) "
BOB DONAGHUE	"	"	( ) "
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
BILL DUKES	MAYOR	CITY HALL, DECATUR	(205 355-7410
JOEL PUGH	CITY ENGINEER	MABRY ENGINEERING	(205) 353-3937
		1740 5th Ave., S.E.	( )
		DECATUR, AL 35602	( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☑ PERMISSION ☐ WARRANT	755 hrs.	75°F - clear, sunny

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
CAMILLA WARREN	EPA-REGION III - ATLANTA, GA	(404) 347-2034
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	**04 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NO.**	**08 DATE**
KATHARINE FENLEY	-	NUS CORP.	404/938-7710	04, 02, 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

FORM UPDATED - KATHARINE FENLEY 4/2/86

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)
- [X] A. SOLID
- [ ] B. POWDER, FINES
- [ ] C. SLUDGE
- [ ] D. OTHER (Specify)
- [ ] E. SLURRY
- [X] F. LIQUID
- [X] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)
- TONS: Unknown
- CUBIC YARDS:
- NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)
- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] D. PERSISTENT
- [X] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [X] J. EXPLOSIVE
- [X] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			FIT IV Sampling investigation indicated the presence of these contaminants.
OLW	OILY WASTE			
(SOL)	SOLVENTS	unknown		
(PSD)	PESTICIDES	unknown		
(OCC)	OTHER ORGANIC CHEMICALS	unknown		
IOC	INORGANIC CHEMICALS			EPA files indicate the presence of methane gas.
ACD	ACIDS			
BAS	BASES			
(MES)	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	COPPER	999	OPEN DUMP/LANDFILL	11,000-28,000,000	µg/kg
MES	NICKEL	7440-02-0	"	5200-550,000	µg/kg
MES	LEAD	999	"	24,000-520,000	µg/kg
MES	ZINC	999	"	36,000-2,600,000	µg/kg
PSD	DIELDRIN	60-57-1	"	7-60	µg/kg
PSD	CHLORDANE	57-74-9	"	69-410	µg/kg
SOL	TETRACHLOROETHYLENE	999	"	2.8-17	µg/liter
SOL	TRICHLOROETHYLENE	79-01-6	"	3.6-2200	µg/l
SOL	BIS(2-ETHYLHEXYL) PHTHALATE	999	"	340-2400	µg/l
SOL	1,2-DICHLOROETHYLENE	999	"	8.7-11,000	µg/l
SOL	TOLUENE	108-88-3	"	3.5-92	µg/l

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT IV AQUADOME SITE SAMPLING INVESTIGATION REPORT
STATE OF ALABAMA HEALTH DEPT. REPORTS
EPA REGION IV FILES

EPA FORM 2070-13(7-81)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

EPA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
AL	D980842512

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [X] OBSERVED (DATE 4/85) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4
04 NARRATIVE DESCRIPTION
Analyses of groundwater samples taken as part of 1985 FIT IV sampling investigation indicate contamination with several priority pollutants, most notably copper, nickel, lead, zinc, toluene.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [X] OBSERVED (DATE 4/85) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4
04 NARRATIVE DESCRIPTION
Analyses of surface water samples (FIT III) indicate copper, nickel, lead, zinc, tetrachloroethylene, trichloroethylene, bis(2-ethylhexyl)phthalate and 1,2-dichloroethylene present as surface water contaminants.

01 [X] C. CONTAMINATION OF AIR — 02 [X] OBSERVED (DATE: See below) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4
04 NARRATIVE DESCRIPTION
April 19, 1983: Mabry Engineering air monitoring system detected 8% LEL outside school and 2% LEL inside school.
April 23, 1985: FIT IV sampling team noted OVA readings above background at vents around school building.

01 [X] D. FIRE/EXPLOSIVE CONDITIONS — 02 [X] OBSERVED (DATE 1983, 1985) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4
04 NARRATIVE DESCRIPTION
See "CONTAM. OF AIR" above.
Also, April 23, 1985: FIT III observed HNu readings greatly above background at 10-ft.-deep auger hole.

01 [X] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4
04 NARRATIVE DESCRIPTION
Brookhaven Middle School: potential contact by students & staff
Aquadome Park: potential contact by the public.
See p. 4 "Total Population Potentially Affected"

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE 4/85) [ ] POTENTIAL [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 40 Acres
04 NARRATIVE DESCRIPTION
Analyses of soil/sediment samples (FIT III study) indicate contamination by copper, nickel, lead, zinc, bis(2-ethylhexyl)phthalate, dieldrin, chlordane.

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 100-140
04 NARRATIVE DESCRIPTION
Willori Products, a metal fabricating company located less than one mile from the site, has one production well and one consumption well drawing from the same aquifer that contaminated groundwater samples (FIT IV data) were taken from. Employees of the plant are 100-140.

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE) [ ] POTENTIAL [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
see p. 4 "Total Population potentially affected"

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
see p. 4 "Total Population potentially affected"

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
AL	D980842512

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)
none observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☒ OBSERVED (DATE: 4/85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See below — 04 NARRATIVE DESCRIPTION
The landfill has no liner and no cap. Some trash was visible during 4/85 investigation. Leachate can be observed running into drainage ditch on site.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☒ P ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
This may have occurred. There are no records available to specify contributors.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: Greater than 10,000. See comments.

IV. COMMENTS

1985 population of Decatur, AL is estimated at 48,500. For purposes of estimating population potentially affected, one quarter of the city's population has been used (>10,000).

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

FIT III AQUADOME SITE SAMPLING INVESTIGATION REPORT
CITY OF DECATUR FILE MATERIALS

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	unknown	
☐ G. LANDFARM		
☒ H. OPEN DUMP	unknown	
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☒ H. OTHER (Specify) open burning in trenches

05 OTHER

☒ A. BUILDINGS ON SITE

06 AREA OF SITE

40 (Acres)

07 COMMENTS

The landfill has been inactive since 1964. Buildings presently on site include Brookhaven Middle School and Aquadome recreational facilities.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The landfill has no liner, no cap, and no leachate collection system.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO

02 COMMENTS

Contaminated surface water and leachate are easily accessible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT III AQUADOME SITE SAMPLING INVESTIGATION REPORT
CITY OF DECATUR FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: 0980842512

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. X	B. ☐	A. ☐	B. ☐	C. X	A. >3 (mi)
NON-COMMUNITY	C. ☐	D. ☐	D. ☐	E. ☐	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) X C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	03 DISTANCE TO NEAREST DRINKING WATER WELL	04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
100-140	0.928 (mi) (4900 ft.)	20-25 (ft)	South X Southeast	20-25 (ft)	71,584,000 (gpd)	☐ YES X NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Willow Products company, located 4900 ft. from the site, has two wells.
Production well: ~150 ft. deep, 8" diam., steel casing. > Plant has
Consumption well: 80-100 ft. deep, 8" diam., steel casing. / 100-140 employees.

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS: Recharge is primarily by precipitation.	☐ YES ☐ NO	COMMENTS: unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

X A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED, POTENTIALLY	DISTANCE TO SITE
Dry Branch Creek	P	<1/4 (mi)
Tennessee River	P	>3 (mi)
_____		_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN	ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	02 DISTANCE TO NEAREST POPULATION
see below	A. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. _____ NO. OF PERSONS	see below (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
see below	see below (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site (e.g., rural, village, densely populated urban area.)

The site is located within the city of Decatur, in a densely populated residential area.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Choose one)
☐ A. 10^{-6} – 10^{-8} cm/sec ☑ B. 10^{-4} – 10^{-6} cm/sec ☐ C. 10^{-4} – 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)
☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ☑ C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
20-30 (ft)	unknown (ft)	unknown → Tends slightly to basic due to limestone.

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	3.3 (in)	6.5 %	Toward drainage ditch in center	0-5 %

09 FLOOD POTENTIAL
SITE IS IN N/A YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE
A _____ (mi)
OTHER
B 4 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
_____ (mi)
ENDANGERED SPECIES: none in vicinity

13 LAND USE IN VICINITY
DISTANCE TO

COMMERCIAL INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A < 1 (mi)	B < 1/10 (mi)	none in vicinity	
		C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located in central Decatur, bordered by residences. The probable drainage path from the site follows Dry Branch Creek, which enters the Tennessee River at approximately river mile 303. This is downstream of the city of Decatur's water supply intake, which is located at river mile 306.

VII. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis reports)

FIT III AQUADOME SITE SAMPLING INVESTIGATION REPORT
CLIMATIC ATLAS OF THE UNITED STATES, U.S. DEPT. OF COMMERCE
TENNESSEE RIVER NAVIGATIONAL CHART

EPA FORM 2070-13(7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	4		
SURFACE WATER	7	Results currently available - FIT IV AQUADOME SITE SAMPLING INVESTIGATION REPORT.	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL/SEDIMENT	6		
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH, Temp.	Water Samples.
Conductivity	Water Samples.
Ambient air	HNu, OVA.

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF FIT IV
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS FIT IV FILES

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT IV AQUADOME SITE SAMPLING INVESTIGATION REPORT
FIT IV FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	04 SIC CODE
CITY OF DECATUR		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
P.O. Box 488		
06 CITY	05 STATE	07 ZIP CODE
DECATUR	AL	35602

PARENT COMPANY (if applicable)

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
06 CITY	05 STATE	07 ZIP CODE

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
06 CITY	05 STATE	07 ZIP CODE

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
06 CITY	05 STATE	07 ZIP CODE

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	04 SIC CODE
SAME AS CURRENT		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (if applicable, list most recent first)

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

CITY & STATE FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
CITY OF DECATUR	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
P.O. Box 488	

05 CITY	06 STATE	07 ZIP CODE
DECATUR	AL	35602

08 YEARS OF OPERATION	09 NAME OF OWNER
	SAME AS OPERATOR

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
SAME AS CURRENT	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: 0980842512

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
UNKNOWN	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
UNKNOWN			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
UNKNOWN			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. PAST RESPONSE ACTIVITIES NONE

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

II PAST RESPONSE ACTIVITIES (Continued) NONE

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1 ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2 POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3 OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
AL	D980842512

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION - YES X NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

None.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REFERENCE NO. 3
APPENDIX B

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1975, 1993, 2011, 2029, 1962	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #4	9/7/82
Collection Date	Type Analysis	Date Reported

Other Sample Information

pH	8.4	Arsenic as As	.01 mg/l
Specific Conductance	1200 umho/cm	Barium as Ba	< .5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< .5 mg/l
Chloride as Cl^-	325 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	34 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	6.65 mg/l
Sulfate as SO_4	136.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	13 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	100.3 mg/l
Phenols	< .02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	< .002 ~~mg/l~~ µg
Organochlorine Pesticides	mg/l	Endrin	< .009 ~~mg/l~~ µg
Organophosphorous Pesticides	mg/l	Toxaphene	< .40 ~~mg/l~~ µg/
Volatile Organics	< 10 ~~mg/l~~ µg/l	Methoxyclor	< .176 ~~mg/l~~ µg
PCB's	mg/l	Herbicides	mg/l
Trans. 1.2 - dichloroethene	11 ~~14~~ ~~mg/l~~ µg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1976, 1994, 2012, 2030, 1963	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	Ditch	9/7/82
Collection Date	Type Analysis	Date Reported
63°F clear.	less than 100 gallons/min. minnows present	~~9/13/82~~ o/k

Other Sample Information

pH	7.5	Arsenic as As	<.01 mg/l
Specific Conductance	340 umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-	18.0 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	1.50 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	.84 mg/l
Sulfate as SO_4	13.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	13 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	8.4 mg/l
Phenols	<.02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	<.002 ~~mg/l~~ µg/l
Organochlorine Pesticides	mg/l	Endrin	<.009 ~~mg/l~~ µg/l
Organophosphorous Pesticides	mg/l	Toxaphene	<.40 ~~mg/l~~ µg/l
Volatile Organics	<10 ~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~ µg/l
PCB's	mg/l	Herbicides	mg/l
Trans 1,2 - dichloroethene	14 ~~mg/l~~ µg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1972, 1990, 2008, 2026, 1959	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW 7.	9/7/82
Collection Date	Type Analysis	Date Reported
D.T.W. 9'6" - 2'9"	T.D. 27'6"	9/13/82 OK

Other Sample Information

pH	6.2	Arsenic as As	<.01 mg/l
Specific Conductance	809 umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-	4[illegible] mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	.24 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	<.10 mg/l
Sulfate as SO_4	6.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	4 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	35.7 mg/l
Phenols	<.02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	<.002 ~~mg/l~~ µg/l
Organochlorine Pesticides	mg/l	Endrin	<.009 ~~mg/l~~
Organophosphorous Pesticides	mg/l	Toxaphene	<.40 ~~mg/l~~ µg/l
Volatile Organics	<10 ~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~ µg/l
PCB's	mg/l	Herbicides	mg/l
_____	mg/l	2,4-D	mg/l
_____	mg/l	2,4,5-T	mg/l
_____	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

_____

_____

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1973, 1991, 1960, 2027, 2009	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82 5:30	MW #2	9/7/82
Collection Date	Type Analysis	Date Reported
13'7" - 2'9" to water		9/13/82 OK

Other Sample Information

pH	5.0	Arsenic as As	<.01 mg/l
Specific Conductance	690 umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-	73.0 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	.40 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	39.04 mg/l
Sulfate as SO_4	7.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	17 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	55.2 mg/l
Phenols	<.02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	<.002 ~~mg/l~~
Organochlorine Pesticides	mg/l	Endrin	<.009 ~~mg/l~~
Organophosphorous Pesticides	mg/l	Toxaphene	<.40 ~~mg/l~~
Volatile Organics	<10 ~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~
PCB's	mg/l	Herbicides	mg/l
_____	mg/l	2,4-D	mg/l
_____	mg/l	2,4,5-T	mg/l
_____	mg/l	Silvex	
		Radioactivity	
Remarks:		Alpha	pCi/
_____		Beta	pCi/
_____		Gamma Scan	

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1974, 1992, 2003, 2026, 961	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #3	9/7/82
Collection Date	Type Analysis	Date Reported
D.T.W. 8'7" - 2'8"	T.D. of 30'	9/13/82 OK

Other Sample Information

pH	11.2	Arsenic as As	<.01 mg/l
Specific Conductance	3,200 umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-	240 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	.4 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	.10 mg/l
Sulfate as SO_4	69.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	37 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	98.1 mg/l
Phenols	<.02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	<.002 ~~mg/l~~
Organochlorine Pesticides	mg/l	Endrin	<.009 ~~mg/l~~
Organophosphorous Pesticides	mg/l	Toxaphene	<.40 ~~mg/l~~
Volatile Organics	<10 ~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~ µ
PCB's	mg/l	Herbicides	mg/l
	mg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

hj

ADPH-F-SW-3/Rev.

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1788, 1774, 1802, (1816)	Ford
Sampling Location	Laboratory Sample Number	Collector
8-4-81	M. W. #1	11/5/81 4/14/82
Collection Date	Type Analysis	Date Reported

Water level from top of pipe 15' 8" Pipe 2' 10" height 12' 10" from ground

Other Sample Information

pH	6.6	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	1.24 mg/l *
Total Dissolved Solids	552 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	324 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	70.0 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< 0.01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	< 0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	8.9 mg/l
Sulfate as SO_4	4.0 mg/l	Magnesium as Mg	mg/l *
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	73.9 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	20.5 mg/l
Phenols	< .02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	Ø mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

*Exceeds Primary Drinking Water Standards

1H

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1789, 1795, 1803, 1817	Ford
Sampling Location	Laboratory Sample Number	Collector
8-4-81	M. W. 82	11/4/31 4/14/82
Collection Date	Type Analysis	Date Reported

Water level from top of pipe 15' 9" Pipe height 2' 8" - 13" 1" from ground

Other Sample Information

pH	6.5	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.66 mg/l
Total Dissolved Solids	598 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	310 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	100.5 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< .01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	<0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	0.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	17.9 mg/l
Sulfate as SO_4	5.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	69.8 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	51.7 mg/l
Phenols	< .02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
_____	mg/l	2,4-D	Ø mg/l
_____	/l	2,4,5-T	Ø mg/l
_____	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

_____

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ADPH-F-SW-3/Rev.

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1790, 1776, 1804, 1818	Linn
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M.W. #3	11/5/81 4/14/82
Collection Date	Type Analysis	Date Reported
W L at 7' 4" pipe height 2' 8"	4' 8" from ground	

Other Sample Information

pH	10.3	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.84 mg/l
Total Dissolved Solids	793 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	250 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	215.0 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< .01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	< 0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	1.4 mg/l
Sulfate as SO_4	48.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	99.7 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	176.7 mg/l
Phenols	0.43 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. [redacted]	1805, 1791, 1777, 1819	Ford
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M. W. #4	4/14/82
Collection Date	Type Analysis	Date Reported

Water level at 11' 3" pipe height 2' 9", 8' 6" from ground level

Other Sample Information

pH	9.6	Arsenic as As	<.01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.50 mg/l
Total Dissolved Solids	933 mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	64 mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<0.5 mg/l
Chloride as Cl^-	220.0 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	<.01 mg/l
Fluoride	mg/l	Silver as Ag	<.05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	<0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	<.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	0.9 mg/l
Sulfate as SO_4	44.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	86.8 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	64.9 mg/l
Phenols	.0 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	<20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

1h

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1819	Linn/Ford
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M. W. #4	9/14/82
Collection Date	Type Analysis	Date Reported

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	<20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

1h
ADPH-F-SW-3/Rev. 8

#3

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch	SW-7[illegible]2	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81	Surface Water	10/22/81
Collection Date	Type Analysis	Date Reported

Sampling Point #3

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	Ø mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
_____	mg/l	2,4-D	mg/l
_____	mg/l	2,4,5-T	mg/l
_____	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

_____

_____

ADPH-F-SW-3/Rev.

#2

4 of 4
Previously report[redacted]

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch	SW-736	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81	Surface Water	10/22/81
Collection Date	Type Analysis	Date Reported

Sampling Point #2

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
Tetrachloroethane	10.5 µg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

ok

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch *	740	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81		10/22/81
Collection Date	Type Analysis	Date Reported

Water was clear and flowing swiftly Fld ph 5.7 and 65°F

Other Sample Information

H		Arsenic as As	mg/l
pecific Conductance	umho/cm	Barium as Ba	mg/l
otal Dissolved Solids	mg/l	Cadmium as Cd	mg/l
lkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
cidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
hloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
Tran 1,2 dichlorothane	77.1 mg/l	2,4-D	mg/l
trichloroethene	50.6 mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:
*At 2nd Ave. near Hillwood Apts.

REFERENCE NO. 4 [redacted]

JAN 05 1988

SUPERFUND RECORD OF COMMUNICATIONS

SITE: Aquadome Elem.School
COUNTY: Morgan STATE: AL

CHECK APPROPRIATE BLOCK(S)

☐ INCOMING PHONE CALL ☐ CONFERENCE PHONE CALL XX☐ VISIT
☐ OUTGOING PHONE CALL ☐ MEETING/ CONFERENCE ☐ ASSIGNMENT

XX EMERGENCY/IMMEDIATE
____ REMEDIAL

DATE	TIME	PHONE NO. (Include Area Code)
12/24/87	2-3:30pm	

TO: (Name, Agency, Firm, and Address)

The Record

FROM: (Name, Agency, Firm, and Address)

Chuck Pietrosewicz

ROUTING

file
ATSDR/OEA
ATSDR/OHA-ERB
EPA/H'cock&[redacted]

XX☒ HEALTH CONSULTATION
XX☒ SITE VISIT
XX☒ REVIEW DATA
☐ PUBLIC MEETING
☐ WORKER HEALTH & SAFETY
☐ OTHER: (Specify) _____

SUMMARY

This day, visited & toured site while in area on personal leave. Toured site, took pix of school grounds & areas previously sampled on 2 occasions by EPA/state. Visit due to recent discussions w/OSC's about earlier ATS recommendations in formal health consult by ATS/Lybarger & of OSC concerns for implementation of reco's & of possible need/desire for additional surface sampling of school grounds, exclusive of ditch areas.

Actions at site included driving perimeter of multi-acre school complex; pix of entire ditch area sampled previously; walking ditch area & entire ball field complexes & other open areas; observation of EPA or state monitoring wells.

Observations:
- o site bordered on all sides by apt's. & single family homes; entire field area open, no access restrictions to fields or ditch;
- o bottom of ditch concrete lined (app. 4'depth); slopes not lined but heavily grassed & weeded; no wastes seen protruding anywhere; soil not discolored; no odors noticed; broken glass was seen thruout slopes; no leachate from slope or other areas seen; no stressed vegetation seen anywhere;
- o entire ditch, slope & adjacent areas healthy w/vegetation & weeds, just a few eroded areas seen (see pix); one area of ditch traversed by bikes (see pix);

ACTION REQUIRED, INFORMATION OR MATERIALS PROVIDED, ETC. ENCLOSURE(S) INCLUDED: ____YES ____NO

- o surface areas around ball fields fully grassed & appears healthy, few eroded areas seen;
- o water in ditch moving actively; minnows & aquatic vegetation abounds & appears healthy;

Conclusions:
- o addit. sampling of level ball field areas appears reasonable since no data except for ditch area; need to discuss same w/OSC's;
- o have ATSDR/ERB assess additional data when available;
- o also have ATSDR/ERB completely re-assess previous comments & reco's, incl. review of pix. Previous comments/reco's per ditch area by ATSDR appear unnecessarily conservative.

TYPED NAME & SIGNATURE	DATE
CP	12/31/87

CDC 80.9 (Formerly 40.4)
REV. 6/84

DEPARTMENT OF HEALTH & HUMAN SERVICES

AUG 26 RECD

Public Health Service
Agency for Toxic Substances
and Disease Registry

Memorandum

Date AUG 5 1986

From Acting Director
Office of Health Assessment

Subject: Aquadome, SI-86-067
Decatur, Alabama

To Mr. Chuck Pietrosewicz
Public Health Advisor
EPA Region IV

STATEMENT OF THE PROBLEM

ATSDR has been requested by the Environmental Protection Agency (EPA) to review the environmental sampling data and comment on the following questions:

1. Is additional on-site and off-site sampling required?

2. Is there a potential health threat to area residents frequenting this area?

BACKGROUND

The site, a former municipal landfill, is located between 5th Avenue S.W. and 8th Street S.W. in Decatur, Morgan County, Alabama. The site encompasses 40 acres and was active for about 20 years before the landfill was closed in 1964. Construction of a middle school on this site began in 1969. The site consists of several athletic fields, a recreation building, the Aquadome Pool and the Brookhaven Middle School.

Gas monitoring systems installed in the school and recreation building have detected methane gas. Eight percent Lower Explosive Limit (LEL) was detected outdoors and 2 percent LEL was detected inside the Brookhaven Middle School building. Four monitoring wells were installed in 1981 and are periodically sampled by the Alabama State Department of Health.

Leachate from the landfill drains into a ditch running west to east across the center of the property. The ditch drains into Dry Branch Creek, a

REFERENCE NO. 5

CLOSURE PLAN
FOR
OLD DECATUR LANDFILL SITE
VICINITY AQUADOME PARK-BROOKHAVEN SCHOOL

PREPARED BY:

MABRY ENGINEERING COMPANY, INC.

MABRY JOB NO. 549-80

CLOSURE PLAN

FOR

OLD DECATUR LANDFILL SITE

VICINITY AQUADOME PARK-BROOKHAVEN SCHOOL

WITHIN SECTION 30, T5S, R4W

MORGAN COUNTY, ALABAMA

PREPARED FOR:

CITY OF DECATUR, ALABAMA

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MORGAN COUNTY, ALABAMA

INTRODUCTION

This sanitary landfill site was operated by City of Decatur for several years, prior to 1964. The site is located within Section 30, Township 5 South, Range 4 West, Morgan County, Alabama. It is south of 8th Street and east of 5th Avenue, S.W., in Decatur. (Refer to SITE MAP at Figure 1 and PHOTOMAP at back of report.)

PURPOSE

The purpose of this investigation, report, and closure plan was to determine whether any requirements remained to safely close the old landfill site.

SCOPE

The scope of investigation, analysis and planning was as follows:

1. Detailed reconnaissance and inspection of the site to determine existing conditions and unacceptable characteristics.
2. Field surveys to establish horizontal control points for aerial photography.
3. Aerial photography (by Atlantic Aerial Surveys-Huntsville, Alabama) and preparation of a photomap to show existing conditions. (At back of report.)
4. Consultations and site inspections with representatives of Solid Wastes Division of Alabama State Health Department and Tri-County Health Department concerning conditions, characteristics, and requirements.
5. Analysis and Classification of the site in accord with Environmental Protection Agency Guidance Manual for Classifying Solid Waste Disposal Facilities. (Refer to Annex A.)

SITE MAP - OLD DECATUR LANDFILL

VICINITY AQUADOME PARK-BROOKHAVEN SCHOOL

WITHIN SECTION 30, T5S, R4W

MORGAN COUNTY, ALABAMA

(FROM TVA QUAD SHEET No. 68-SW)

Scale: 1"=2000'

6. Evaluation of noncompliance characteristics and preparation of the closure plan, including construction requirements and estimated times of compliance.

COMPLIANCE WITH EPA CRITERIA

All of the EPA classification characteristics were determined to be in compliance. Site inspection and other operations during the past few years have indicated no leachate. Therefore, groundwater monitoring wells were not installed.

The present land use is for education and recreation. The majority of the site is used for playing fields, parking lots and other open areas. There are two structures located on the site; a middle school and a recreation facility. The school was designed with deep foundations and a gas monitor was installed, with automatic alarm, set at 25 percent LEL. The monitor is periodically tested to ascertain operability. The monitor has not recorded, at any time during the several years that the structure has been in use, any excess of the 25 percent LEL.

There have been no apparent problems with use of the old landfill site by either facility, except for surface subsidence on several occasions. All adjacent facilities and residences are served by the public water and sewer systems.

CONCLUSIONS

This old landfill site complies with classification requirements. No further action is proposed except gas monitoring by The City Board of Education.

ANNEX A

LANDFILL CLASSIFICATIONS

FOR TRAINING PURPOSES ONLY

Form EPA-2
(12-13-79)

ENVIRONMENTAL PROTECTION

OPEN DUMP INVENTORY REPORTING FORM

Section I – GENERAL INFORMATION

1. **Date of determination** *Enter month, day, and year* — Month: 09 Day: 02 Year: 80

2a. **Is this an update of a previous form?** *Mark (X) one* — 1 [ ] Yes 2 [X] No

2b. **Is this form being submitted to remove the facility from the open dump inventory?** — 1 [X] Yes 2 [ ] No

3. **Facility Identification Number** — State | Cnty/City | Place | Assigned Site No. | Assigned Facility

4. **EPA Surface Impoundment Assessment No.** *If applicable* — State | Cnty/City | Place | Category | Site | Impound

5. **State Facility Identification Number** *If applicable*

6. **Name of facility**
OLD LANDFILL VICINITY AQUADOME
PARK - BROOKHAVEN SCHOOL

7. **Facility location**
Street, road, or other location description
FIFTH AVE. S.W.
EIGHTH ST S.W.
City, town, or place: DECATUR
State: AL
ZIP code: 35601
County name: MORGAN

8. **Coordinates of facility location**
Latitude: Degrees 34 Minutes 35 Seconds 19
Longitude: Degrees 86 Minutes 59 Seconds 40

9. **Other legal description** *If applicable*
Range: 4 West
Township: 5 South
Section: 30
Huntsville Meridian

10. **Land owner**
Name: CITY OF DECATUR
Mailing address: POST OFFICE BOX 488
City, town, or place: DECATUR
State: AL
ZIP code: 35602

11. **Operator**
See Owner – Landfill No Longer in Operation
Name
Mailing address
City, town, or place
State
ZIP code

Section I – GENERAL INFORMATION – Continued

12. Type of facility *Mark (X) one*

- 1 [X] Landfill
- 2 [ ] Surface impoundment
- 3 [ ] Land spreading
- 4 [ ] Other – *Explain* _____

13. Primary types of waste received

- 1 [X] Municipal solid waste
- 2 [ ] Domestic sewage sludge
- 3 [X] Industrial solid waste
- 4 [ ] Agricultural solid waste
- 5 [ ] Mining solid waste
- 6 [ ] Other – *Explain* _____

Section II – NONCOMPLIANCE WITH FEDERAL CRITERIA

Indicate noncompliance with one or more of the following categories Mark (X) each category for which a determination of noncompliance was made.

- 01 [ ] Floodplains
- 02 [ ] Endangered species
- 03 [ ] Surface water
- 04 [ ] Ground water
- 05 [ ] Application to food-chain cropland
- 06 [ ] Disease
- 07 [ ] Air
- 08 [ ] Gases
- 09 [ ] Fires
- 10 [ ] Bird/aircraft hazard
- 11 [ ] Access

} Safety

Section III – RESPONSIBLE STATE OFFICIAL

Name			Telephone: Area code	Telephone: Number
Agency				
Mailing address *(Number and street)*	City	State	ZIP code	

Comments

Landfill closed in Spring 1964. Site now used for school and recreation complex. Buildings have vents built to protect from methane. Methane Detector in Boiler Room of School installed in 1973 @ 25% LEL Never Alarmed

FORM EPA-2 (12-13-78)

Chapter 1

AIR

Criterion Compliance Decision

[X] Complies

[ ] Does Not Comply

1. Is open burning of solid wastes practiced at the facility?

   [ ] YES (Continue to 2)

   - [ ] Records of previous open burning
   - [ ] Visual observation of open burning
   - [ ] Physical evidence of previous open burning

   [X] NO (COMPLIES)

   - [ ] Facility is a surface impoundment and does not open burn wastes
   - [ ] Facility is a landspreading operation and does not open burn wastes
   - [X] Landfill which does not open burn

2. Are residential, commercial, institutional, or industrial solid wastes open burned at the facility?

   [ ] YES (Does not comply)

   - [ ] Records of previous open burning
   - [ ] Visual observation of open burning
   - [ ] Physical evidence of previous open burning

   [ ] NO (Continue to 3)

3. Are landclearing debris, diseased trees, debris from emergency clean-up operations, silvicultural and agricultural wastes, or ordnance open burned at the facility?

   [ ] YES (Continue to 4)

   - [ ] Records of previous burning
   - [ ] Visual observation of open burning
   - [ ] Physical evidence of previous open burning

   [ ] NO (COMPLIES)

4. Does the facility control air emissions in accordance with the State Implementation Plan (SIL) approved or promulgated by the administrator pursuant to Section 110 of the Clean Air Act?

   [ ] YES (COMPLIES)

   - [ ] Opinion given by State agency managing the SIP
   - [ ] Variances or permits under SIP examined
   - [ ] Visual observations of open burning comply with SIP

   [ ] NO (Does not comply)

Chapter 2(a)

SAFETY - EXPLOSIVE GASES

Criterion Compliance Decision

☐ Complies

☐ Does Not Comply

1. Is methane generated?

☒ YES (Continue to 2)

☒ Landfill with organic waste
☐ Surface impoundment generating methane with a facility structure in contact with the liquid

☐ NO (COMPLIES)

☐ Landfill with no organic waste
☐ Landfill less than one year old
☐ Surface impoundment with no structures located adjacent to or above the disposal area
☐ Landspreading operations

2. Is methane prevented from migrating beyond the property boundary and accumulating in facility structures?

☐ YES (COMPLIES)

☐ Facility located on impervious rock
☐ Facility located on saturated soil or surrounded by surface water
☐ Facility with gas venting or recovery systems
☐ Facility with recent monitoring records showing no migration

☒ NO (Does not comply - continue to 3)

Ranking of facilities based on potential for methane hazard at the time of the Inventory.

☐ High priority (continue to 4)

☐ History of methane-related fires or explosions
☐ Monitoring results that indicate a migration problem
☐ Location in sand and gravel pits, and facility or off-site structures within 1200 feet
☐ Ranking from Table 2(a)-2 N/A

☐ Medium priority

☐ Vegetative stress within 1200 feet, but no facility or off-site structures
☐ Ranking from Table 2(a)-2 N/A

Chapter 2(a)

SAFETY - EXPLOSIVE GASES

(Continued)

☐ Low priority

☐ No off-site structures within 1200 feet
☐ Ranking from Table 2 (a)-2

4. Do the concentrations of methane, as determined by monitoring, exceed 25 percent of the LEL in facility structures or the LEL at the property boundary?

☐ YES (Does not comply)

☐ NO (COMPLIES)

Monitoring is Required - Brookhaven Middle School and the Aquadome are located within the old landfill site. The structures were equipped with gas monitoring devices, set at 25% LEL. Neither has ever reached that level, but continuous monitoring is required because both structures are utilized by Decatur residents.

Chapter 2(b)

SAFETY - FIRES

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Does the facility have the potential for fire occurrence?

☐ YES (Continue to 2)

☐ NO (COMPLIES)

☐ Facility receives only non-flammable, non-combustible wastes

2. Does the facility comply with Section 257.3-7, of the Air Criterion?

☒ YES (COMPLIES)

☒ The facility controls the occurrence of fires through compliance with Section 237.3-7

☐ NO (Continue to 3)

3. Is periodic cover material applied so as to reduce the risk of fire?

☒ YES (COMPLIES)

☐ The facility applies and compacts cover over combustible solid waste at the end of the operating day

☐ The facility applies and compacts cover at least once every 24 hours

☐ The facility incorporates all waste into the soil at the end of the operating day

All Waste is covered.

☐ NO (Continue to 4)

4. Does the facility have adequate operating procedures to control fires should they occur?

☐ YES (COMPLIES)

☐ Landfill minimizes fire hazards when conducting open burning, such as:

☐ Supervision during burning
☐ Limiting access during burning
☐ Established arrangements with the local fire department
☐ Earth stockpiles near the burning area
☐ On-site availability of heavy equipment to extinguish fires
☐ Water supply under sufficient pressure is available
☐ Fire extinguishers are available
☐ Firebreaks or fire lanes are present

Chapter 2(b)

SAFETY - FIRES

(Continued)

☐ Landfill minimizes fire hazards by proper operating procedures:

- ☐ Previous inspections and reports indicate no problem
- ☐ Permit conditions are being followed (for a fire protection plan)
- ☐ No complaints have been made
- ☐ Records of local fire department indicate no citations have been given
- ☐ High frequency of spreading and compacting all combustible wastes
- ☐ Waste materials with high fire potential are unloaded a safe distance from the working face
- ☐ Unloading of wastes adequately supervised
- ☐ Hot or burning loads are extinguished with water or soil before incorporating into the fill
- ☐ Earth stockpiles are located near the working face
- ☐ Water supply under sufficient pressure is available at the working face
- ☐ Fire extinguishers present on all equipment and buildings
- ☐ Arrangements are established with local fire fighting departments
- ☐ On-site availability of heavy equipment to extinguish fires
- ☐ Firebreaks, fire lanes are present

☐ Surface impoundment minimizes fire hazards by proper handling and storage of liquid wastes:

- ☐ Wastes are mixed to reduce flammability
- ☐ Suitable fire extinguishing equipment is present
- ☐ Established arrangements with local fire department or trained on-site personnel
- ☐ Wastes can be rapidly drained or waste flow can be controlle
- ☐ Waste can be isolated
- ☐ Impoundment is readily accessible by fire-fighting equipment

☐ Landspreading facility minimizes fire hazards by proper operating procedures:

- ☐ Suitable fire-fighting equipment is available
- ☐ Established arrangements with local fire department
- ☐ Facility is readily accessible by fire-fighting equipment

☐ NO (Does not comply)

Chapter 2(c)

SAFETY -
BIRD HAZARDS TO AIRCRAFT

Criterion Compliance Decision

[X] Complies

[ ] Does Not Comply

1. Is the disposal facility within the specified distances of a public-use airport?

[ ] YES (Continue to 2)

[ ] 10,000 feet from any airport runway used by turbojet aircraft
[ ] 5,000 feet from any airport runway used by piston-type aircraft

[X] NO (COMPLIES)

2. Does the facility receive putrescible waste?

[ ] YES (Continue to 3)

[ ] Food waste
[ ] Sewage sludge, septic tank pumpings
[ ] Animal manures
[ ] Animal carcasses
[ ] Others

[ ] NO (COMPLIES)

3. Does the facility pose a bird hazard to aircraft?

[ ] YES (Does not comply)

[ ] Bird populations of the facility are greater than natural populations in the area
[ ] Facility attracts birds
[ ] There is a bird hazard at the airport from areas outside the airport
[ ] Flight patterns of the birds show that birds do fly from the disposal facility to the airport area

[ ] NO (COMPLIES)

[ ] Bird populations of the facility are less than or equal to the natural populations in the area
[ ] Facility does not attract birds
[ ] Bird attraction is due to the airport facility
[ ] Flight patterns of birds show that they do not fly from the disposal facility to the airport

Chapter 2(d)

SAFETY - ACCESS

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Is access of unauthorized persons into the facility controlled?

☐ YES (COMPLIES)

Natural controls:

☐ Trees and hedges
☐ Berms and ditches
☐ Cliffs and ravines
☐ Remoteness

Artificial controls:

☐ Gates
☐ Fences

☐ NO (Continue to 2)

2. Are authorized persons controlled within the facility so as to not expose them to potential health and safety hazards?

☐ YES (COMPLIES)

☐ Supervision of the unloading area
☐ Adequate lighting
☐ Posting information and direction signs
☐ Prohibition of scavenging
☐ Control of salvaging
☐ Trafficable roadways
☐ Alternate discharge point

☐ NO (Does not comply)

N/A - Landfill closed and covered - now in use for recreation - education.

Chapter 3

SURFACE WATER

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Is there a point source discharge of pollutants to waters of the United States?

☐ YES (Continue to 2)

- ☐ Facility has a Section 402 (NPDES) permit
- ☐ Landfill with a discharge from a leachate collection system
- ☐ Landfill with a discharge from an on-site leachate treatment system
- ☐ Landfill with a direct discharge of solid waste into waters of the U.S.
- ☐ Surface impoundment with a discharge from a pipe or outfall
- ☐ Surface impoundment with a discharge from an eroded channel
- ☐ Surface impoundment with a discharge from a spillway structure
- ☐ Surface impoundment located in waters of the U.S.
- ☐ Landspreading operations with a discharge from an outfall pipe, or channel that drains the landspreading area where the waste is not incorporated into the soil
- ☐ Landspreading operations located in waters of the U.S. where waste is not applied for enhancement of vegetative growth

☒ NO (Go to 2)

2. Does the facility violate requirements for NPDES permits established pursuant to Section 402 of the Clean Water Act?

☐ YES (Does not comply - continue to 3)

- ☐ Facility has a 402 permit, but is in violation of the permit
- ☐ Facility has not applied for a 402 permit

☒ NO (Continue to 3)

- ☒ Facility operates according to 402 permit requirements
- ☐ Facility has applied for a 402 permit

3. Is there a discharge of dredged material or fill material to waters of the United States?

☐ YES (Continue to 4)

☒ NO (Go to 5)

Chapter 3

SURFACE WATER

(Continued)

4. Does the facility violate requirements established pursuant to Section 404 of the Clean Water Act?

☐ YES (Does not comply - continue to 5)

☐ 404 permit, but is in violation of that permit
☐ Facility has not applied for a 404 permit

☒ NO (Continue to 5)

☐ Facility operates in compliance with its 404 permit
☐ Facility has applied for a 404 permit

5. Is there a non-point source discharge from the facility?

☐ YES (Does not comply - continue to 6)

☐ Surface impoundment with spillover, overtopping, or leakage
☐ Other _____

☒ NO (Continue to 6)

☐ Landfill or landspreading facility that totally contains runoff or other water
☐ Other All waste is completely covered and removed from surface water contact.

6. Does the facility cause non-point source polluting of the waters of the U.S. that violates applicable legal requirements implementing an areawide or Statewide water quality management plan that has been developed and approved by the Administrator under Section 208 of the Clean Water Act, as amended?

☒ YES (COMPLIES)

☐ Facility not in an area with an approved 208 plan
☐ Facility in an area with an approved 208 plan and complies with all applicable requirements
☒ No 208 requirements have been placed on the facility

☐ NO (Does not comply)

Chapter 4

GROUND WATER

Criterion Compliance Decision

[X] Complies

[ ] Does Not Comply

1. Does ground water contain more than 10,000 mg/l TDS, and is it not being used as a human drinking water source?

[X] YES (COMPLIES)

- [ ] Ground water is not present beneath the site
- [ ] Ground water has more than 10,000 mg/l TDS, TDS = Not Known and is not used as a human drinking water source See No. 3
- [ ] Ground water is not present in usable quantities beneath the site

[ ] NO (Continue to 2)

- [ ] Ground water has less than 10,000 mg/l TDS
- [ ] Ground water is being used as a drinking water source

2. Rank facility according to its contamination potential.

Landfills

- [ ] Facility overlies sole source aquifer (high priority)
- [ ] Facility has a history of leachate problems (high priority)
- [ ] Ranking from Table 4-2
  - Saturated zone permeability _____ cm/sec
  - Unsaturated zone thickness _____ m
  - Unsaturated zone permeability _____ cm/sec
- [ ] Facility is in an area where precipitation is exceeded by evaporation plus transpiration (low priority)

[ ] High priority

[ ] Medium priority

[X] Low priority

Surface Impoundments

Ranking from Table 4-3

Saturated zone rating _____

Unsaturated zone rating _____

Landspreading Facilities

☐ Sludge nitrogen is being applied in excess of crop or vegetative demand (high priority)
☐ Ranking from Table 4-2 for industrial waste facilities

☐ High priority
☐ Medium priority
☐ Low priority

3. Has an underground drinking water source been contaminated by the facility beyond the solid waste (or alternate boundary)?

☐ YES (Does not comply)

☐ Monitoring shows contamination of a drinking water source
Contaminating substances and concentrations _____
_____
_____

☒ NO (COMPLIES)

☒ Facility does not overlie a drinking water source
☐ Monitoring shows no contamination beyond the solid waste (or alternate boundary)

Chapter 5

ENDANGERED SPECIES

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Is the facility within a critical habitat or the portion of the range where endangered or threatened for an endangered or threatened species as listed pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1530 et seq. as amended) in 50 CFR Part 17?

   ☒ YES (Continue to 2)

   ☐ NO (COMPLIES)

2. Has there been an assessment which enables the determination that the facility neither results in the destruction or adverse modification of the critical habitat of endangered or threatened species, nor causes or contributes to the taking of any endangered or threatened species of plants, fish, or wildlife?

   ☐ YES (COMPLIES)

   - ☐ Facility has passed assessment made by State, according to facility records
   - ☐ Facility has passed assessment made by OES or other Federal agency
   - ☐ Facility has an individual 404 Permit with an assessment section
   - ☐ Facility has passed evaluation as a result of settlement made to prevent adverse impact
   - ☐ Nearby assessments have indicated comparable situation at facility is not a problem

   ☒ NO (Continue to 3)

3. Does the facility result in the destruction or adverse modification of a critical habitat?

   Factors considered:

   Type of critical habitat _____

   Size of critical habitat _____

   Sensitivity of critical habitat to adverse impacts _____

   _____

   Critical habitat species characteristics _____

   _____

   Proximity of facility to critical habitat _____

   Facility design and operational characteristics _____

   _____

☐ YES (Does not comply - Continue to 4)

☒ NO (Continue to 4)

4. Does the facility cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife?

Factors considered:
Type of species and species habitat
Species characteristics
Sensitivity of species and species habitat to adverse impacts
Proximity of facility
Facility size, design, and operational characteristics

Adverse impacts considered:
Harassing, harming, pursuing, hunting, wounding, killing, trapping, capturing, or collecting species (direct violation of ESA, does not comply) None
Adverse modification or loss of habitat (including air & water pollution) None
Infringement on breeding, nesting, and feeding activities No
Interference with species movement No

☐ YES (Does not comply)

☒ NO (COMPLIES)

The Facility is closed and does not harm the environment. The nearest possible habitat for the Slackwater Darter is several Hundred feet away.

Chapter 6(a)

DISEASE: VECTORS

Criterion Compliance Decision

[X] Complies

[ ] Does Not Comply

1. Does the facility minimize the on-site population of disease vectors through the periodic application of cover material or other techniques as appropriate so as to protect public health?

[X] YES (COMPLIES)

Rats and Flies

Landfills

- [ ] Facility applies daily cover
- [ ] Facility is not one which applies daily cover
  - Type of facility _____
  - Reason why daily cover is not necessary _____
  - All waste covered - Landfill Closed
  - Schedule for application of cover _____
- [ ] Facility practices other techniques
  - Repellants
  - Insecticides or rodenticides
  - Composting or processing
  - Predatory or reproductive control

Landspreading

- [ ] Is waste material putrescible?
- [ ] Is the waste material incorporated into the soil?

Mosquitos

Landfills and Landspreading

- [ ] No visual observation of mosquitoes, mosquito larvae, or flies
- [ ] Waste is incorporated
- [ ] Waste is properly treated prior to application
- [ ] No presence or potential for standing water
- [ ] Records of inspections show no evidence of disease vector problems

Chapter 6(a)

DISEASE: VECTORS

Criterion Compliance Decision

(continued)

Mosquitos (continued)

Surface Impoundments

- ☐ Facility provides environmental control techniques
- ☐ Varying water level
- ☐ Agitation of water
- ☐ Removal of vegetation
- ☐ Presence of aquatic life
- ☐ No visual observation of mosquito larvae
- ☐ Effective insecticide program

☐ NO (Does not comply)

Chapter 6(b)

SEWAGE SLUDGE AND SEPTIC TANK PUMPINGS

Criterion Compliance Decision

[X] Complies

[ ] Does Not Comply

1. Are sewage sludge or septic tank pumpings applied to the surface of the land or incorporated into the soil?

   [ ] YES (Continue to 2)

   [X] NO (COMPLIES)

   [X] Facility is a trenching or burial operation

2. Are crops planted for human consumption within 18 months after application of waste?

   [ ] YES (Continue to 3)

   [ ] Crops grown at time of inventory are for human consumption
   [ ] Information from operating plan
   [ ] Past usage or crops in the vicinity
   [ ] Information from facility owner/operator

   [ ] NO (Continue to 5)

3. Does the waste contact the food portion of the crop?

   [ ] YES (Continue to 4)

   [ ] Direct application or rainfall splash
   [ ] Crops with food portion close to the ground
   [ ] Taller crops that receive application early in growing stage

   [ ] NO (Continue to 6)

4. Is the waste treated by a process to further reduce pathogens?

   [ ] YES (COMPLIES)

   [ ] Verification of acceptable process from appropriate source
   Source used _____

   [ ] NO (Does not comply - continue to 5)

   [ ] Verification cannot be made

Chapter 6(b)

SEWAGE SLUDGE AND SEPTIC

TANK PUMPINGS

(Continued)

5. Is sewage sludge the waste material being applied?

☐ YES (Continue to 6)

☐ NO (Continue to 7)

6. Has the sludge been treated by a process to significantly reduce pathogens and is access controlled - 12 months for the public, and 1 month for grazing animals whose products are consumed by man?

☐ YES (Both reduction process and access control must be checked) (COMPLIES)

- ☐ Verification of acceptable process from appropriate source
  Source used _____
- ☐ Appropriate access controls are used in public access areas
- ☐ Facility is on private farmland not subject to frequent trespass

☐ NO (Does not comply)

- ☐ Verification cannot be made
- ☐ No access controls are used
- ☐ Facility is on private farmland subject to frequent trespass, and access is not controlled

7. Has the waste been treated by a process to significantly reduce pathogens or is access prevented - 12 months for the public and 1 month for grazing animals whose products are consumed by man?

☐ YES (COMPLIES)

- ☐ Verification of acceptable process from appropriate source
  Source used _____
- ☐ Access controlled

☐ NO (Does not comply)

Chapter 7

APPLICATION TO LAND USED FOR THE PRODUCTION OF FOOD CHAIN CROPS

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Is solid waste applied within one meter of the surface of land used for food chain crops?

☐ YES (Continue to 2)

☒ NO (COMPLIES)

☒ The land is not used for the production of food chain crops
☐ Facility is a surface impoundment
☒ Facility is a landfill

2. Is there an operating plan which demonstrates how the crop is to be distributed to preclude ingestion by humans and provides safeguards to prevent possible health hazards resulting from alternative future uses of the land?

☐ YES (Continue to 3)

☐ Crop distribution is controlled to prevent ingestion by humans

☐ Operating plan describes safeguards against possible entry of cadmium into food chain.
Description _____

☐ NO (Go to 5)

3. Does a notice appear in the land records notifying any future owners that the property has received solid waste at high cadmium application rates and that food chain crops should not be grown, due to a possible health hazard?

☐ YES (Continue to 4)

☐ NO (Does not comply - continue to 4)

Chapter 7

APPLICATION TO LAND USED FOR THE PRODUCTION OF FOOD CHAIN CROPS

(Continued)

4. Is the solid waste and soil mixture at pH 6.5 or greater at the time of solid waste application or at the time the crop is planted, whichever occurs later?

☐ YES (COMPLIES)

☐ NO (Does not comply - continue to 5)

5. Is the background soil pH greater than 6.5 or are there adequate safeguards to assure that the soil pH will be maintained at 6.5 or higher whenever food chain crops are grown?

☐ YES (Continue to 6)

- ☐ SCS maps or reports, or local agricultural extension service
- ☐ Laboratory analysis
- ☐ pH of soil is controlled whenever food chain crops are grown.

☐ NO (Go to 7)

6. Does the soil cadmium concentration exceed 5 kg/ha with a CEC of less than 5, or 10 kg/ha with a CEC of 5 to 15, or 20 kg/ha with a CEC greater than 15?

☐ YES (Does not comply)

☐ NO (COMPLIES - Go to 8)

7. Has the cumulative application of cadmium exceeded 5 kg/ha?

- ☐ kg/ha cadmium in soil _____
- ☐ kg/ha cumulative application _____

☐ YES (Does not comply - continue to 8)

☐ NO (COMPLIES - continue to 8)

8. Is the annual application rate of cadmium in excess of 2 kg/ha (1.25 kg/ha after 1/1/84 and 0.5 kg/ha after 1/1/87)?

☐ kg/ha/yr cadmium application rate _____ (see Figure 7-3)

☐ YES (Does not comply - continue to 9)

☐ NO (Continue to 9)

Chapter 7

APPLICATION TO LAND USED FOR THE PRODUCTION OF FOOD CHAIN CROPS

(Continued)

9. If waste is applied to land used for the production of tobacco, leafy vegetables or root crops for human consumption, is the cadmium loading rate less than 0.5 kg/ha/year?

☐ Crop grown _____

☐ YES (Continue to 10)

☐ Land is not used for production of these crops
☐ Cadmium loading is less than 0.5 kg/ha/yr

☐ NO (Does not comply - continue to 10)

10. Is the cadmium concentration in the waste less than 2 mg/kg?

☐ mg/kg - cadmium concentration _____

☐ YES (COMPLIES - continue to 11)

☐ NO (Continue to 11)

11. Is the pH of the soil/waste mixture 6.5 or greater at the time of application?

☐ YES (COMPLIES- continue to 12)

☐ NO (Does not comply - continue to 12)

12. Is the waste incorporated into the soil?

YES (COMPLIES)

NO (Continue to 13)

13. Does the waste contain concentrations of PCB's equal to or greater than 10 mg/kg?

☐ YES (Continue to 14)

☐ Analysis indicates 10 mg/kg or more

☐ NO (COMPLIES)

☐ Analysis indicates less than 10 mg/kg
☐ No known significant source of PCB's

Chapter 7

APPLICATION TO LAND USED FOR THE PRODUCTION OF FOOD CHAIN CROPS

(Continued)

14. Is the milk or animal feed monitored to assure that the PCB concentrations are less than 1.5 mg/kg (fat basis) in milk, or less than 0.2 mg/kg in animal feed?

☐ YES (COMPLIES)

☐ NO (Does not comply)

Chapter 8

FLOODPLAINS

Criterion Compliance Decision

☒ Complies

☐ Does Not Comply

1. Is the solid waste applied to the land surface and incorporated into the soil for the purpose of beneficial utilization as a soil conditioner or fertilizer?

☐ YES (Complies)

- ☐ Waste incorporated into the soil in accordance with requirements of Section 257.3-5
- ☐ Waste used as a soil conditioner or fertilizer
- ☐ Disposal area being used (or will be used next season) for vegetation

☒ NO (Continue to 2)

2. Is the facility located in the 100-year floodplain?

☐ YES (Continue to 3)

- ☐ Stated in permit or operation applications
- ☐ State floodplain designation
- ☐ Federal floodplain designation: agency _____
- ☐ Interpolation between two known points in the 100-year floodplain
- ☐ Computations of flood flow and flood level

☒ NO (Complies)

3. Does the facility restrict the flow of the base flood or reduce the temporary water storage capacity so as to pose a hazard to human life, wildlife, or land or water resources?

Special cases:

- ☐ Facility located in a state where equivalent review or permit procedures have considered flood alteration impacts
- ☐ Facility has a 404 permit with an equivalent flood hazard assessment section and is in compliance with the permit
- ☐ Facility has filled floodplain or is diked up to or above base flood level
- ☐ Facility is below floodplain grade

- ☐ Facility located in a floodplain where the channel is diked to contain the base flood
- ☐ Facility increases base flood level more than 1.0 foot

Priority of facility:

- ☐ Regulatory floodway area - priority 1
- ☐ High flood hazard potential area (Table 1-1) - priority 2
- ☐ Low flood hazard potential area (Table 1-1) - priority 3

Factors considered in flood hazard potential assessment:

Base Flood characteristics: _____
Floodplain topography: _____
Floodplain hydrogeology: _____
Facility characteristics: _____
Natural resources in and adjacent to the floodplain: _____
_____
Land use in and adjacent to the floodplain: _____
_____

☐ YES (Does not comply - Continue to 4)

☐ NO (Continue to 4)

4. Is the facility protected from washout by the base flood so as not to pose a hazard to human life, wildlife, or land or water resources?

Factors considered for washout protection:

Types and Efficiency Protection:

- ☐ Dike or levee _____
- ☐ Berm _____
- ☐ Flexible linings _____
- ☐ Vegetative cover _____
- ☐ Riprap _____
- ☐ Diversion of surface flow _____
- ☐ Change in soil matrix _____
- ☐ Other _____
- ☐ None _____
- ☐ Flood flow velocity _____

Chapter 8

FLOODPLAINS

(continued)

☐ YES (Complies)

- ☐ State washout assessment or 404 permit
- ☐ Site analysis of washout protection

☐ NO (Does not comply)

- ☐ Washout by flood of lesser magnitude than the 100-year flood
- ☐ Site analysis of washout protection

CERCLA Eligibility Form

Site Name: AQUADOME LANDFILL

City/County/State: DECATUR, MORGAN COUNTY, ALABAMA

EPA ID Number: ALD980842512

Type of Facility: Generator ____ Transporter ____ Disposal X
Treatment ____ Storage (more than 90 days) ____

	Yes	No
Has this facility treated, stored or disposed of a RCRA hazardous waste since Nov. 19, 1980?	____	N/A *
Has a RCRA Facility Assessment (RFA) been performed on this site?	____	X
Does the facility have a RCRA operating or post-closure permit? If so, date issued _____	____	X
Did the facility file a RCRA Part A application? If so:	____	N/A
1) Does the facility currently have interim status?	____	N/A
2) Did the facility withdraw its interim status?	____	N/A
3) Is the facility a known or possible protective filer?	____	N/A
Is the facility a late (after Nov. 19, 1980) or non-filer that has been identified by EPA or the State?	____	X
Is the site a Federal Facility?	____	X
Is there at least one source onsite which is <u>not</u> covered by CERCLA Petroleum Exclusion Legislation?	Uknown	____
Is the facility owned by an entity that has filed for bankruptcy under federal or State laws?	____	X
Has the facility lost authorization to operate or had its interim status revoked?	____	N/A
Has the facility been involved in any other RCRA enforcement action?	____	X

*This facility was closed in approximately 1964.

NOTE: There has never been any RCRA action taken at Aquadome Landfill per Chip Stewart and Ana Torgrimson at the RCRA Office, USEPA Region IV, as of December 10, 1991.

WESTON MANAGERS DESIGNERS/CONSULTANTS
100 Atlanta Technical Center, Suite 120, Building 100
1575 Northside Drive, NW, Atlanta, GA 30318 1-404-352-4147

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

JAN 1991
ADEM
SPECIAL PROJECTS

MEMORANDUM

TO: Shane Hitchcock, OSC
EPA, Region IV

FROM: Scott W. Dunbar
TAT, Region IV

THRU: William R. Doyle WRD
TATL, Region IV

SUBJECT: Aquadome Site Investigation
Decatur, Morgan County, Alabama
TDD #04-9010-0088-1090
TAT #04-F-04367

DATE: 17 December 1990

SITUATION

This report has been prepared in accordance with the requirements of Technical Direction Document (TDD) #04-9010-0088, assigned to the Roy F. Weston Incorporated, Technical Assistance Team (TAT) Atlanta Office, by the U.S. Environmental Protection Agency (EPA).

TAT was tasked by On-Scene Coordinator (OSC) Shane Hitchcock to conduct a site investigation at Brookhaven Middle School and Aquadome Recreation Center in Decatur, Morgan County, Alabama (Figures 1 & 2 - Site and Area Location Maps). An investigation was required after EPA Region IV received information from both the State of Alabama and a Field Investigation Report from NUS Corporation Superfund Division, Field Investigation Team (FIT). The FIT report indicated that trace levels of inorganic, organic, pesticide, and polychlorinated biphenyl contamination were detected in the soil and sediment samples that they had collected. The TAT investigation was to provide documentation as to the potential threat of contacted exposure by the local population. Included in the investigation was visual observation, air sampling, and soil sampling.

BACKGROUND

The Aquadome Site was, formerly, a landfill/burn pit that was operated by the City of Decatur from the 1940's until 1964 and no cap was installed at the time of its closure. In 1969, the school and recreation center were constructed, and shortly after, the completed gas monitoring systems were installed. In 1981, four monitoring wells were installed around the facilities, by Testing, Incorporated and are sampled periodically by the state of Alabama Health Department. THE NUS Field Investigation Team conducted a site investigation in mid 1985 that detected the trace levels hazardous substances.

SUMMARY

On 3 November 1990, TAT members S. Dunbar and M. Hill arrived at Brookhaven Middle School and met with Mr. Ed Smith, the Decatur School District Maintenance Superintendent. Mr. Smith escorted TAT through the school and explained the school's ventilation system, which is of a forced-air design, and operates full time. After seeing the building, TAT determined that the most appropriate placed to collect an air sample was in a corridor at the lowest occupied level, since the basement was actually the boiler room for the school. The air sample collected was labeled ID #110390C1. (Attachment F - Analytical Table)

Having completed the sampling inside the school, TAT moved outside the building to collect an air sample between areas A and C (Figure 3 - Site Diagram). This air sample was a mid morning ambient representative sample, labeled ID #110390A1.

TAT began collecting surface and subsurface soil composite sample from all of the four areas delineated in Figure 3. The OVA flame ionization detector (FID), was utilized in the bore holes during the subsurface soil sampling. During the soil sampling activities, the FID detected only background levels. In Area C, solid waste materials of a non hazardous nature were observed slightly below the surface, while collecting subsurface samples. In all four areas, both surface and subsurface samples were collected. The surface sample were labeled ID #110390 AA-BA-CA-DA (Attachment G - Sampling Plan). The subsurface samples were labeled ID #110390 AZ-BZ-CZ-DZ and were taken at a depth of six inches.

After completing the soil sampling, a final air sample was collected between Areas B and C. This mid afternoon ambient representative air sample was labeled ID #110390 B1.

Prior to departing the site, a field blank air sample was obtained and all of the soil samples were cooled to four degrees Celsius.

On 05 November 1990, TAT hand delivered the samples to the laboratory. The soils samples were to be analyzed for inorganics, purgeable organics, extractable organics, pesticides, and polychlorinated biphenyls. The air samples were to analyzed for purgeable organics and extractable organics.

CONCLUSION

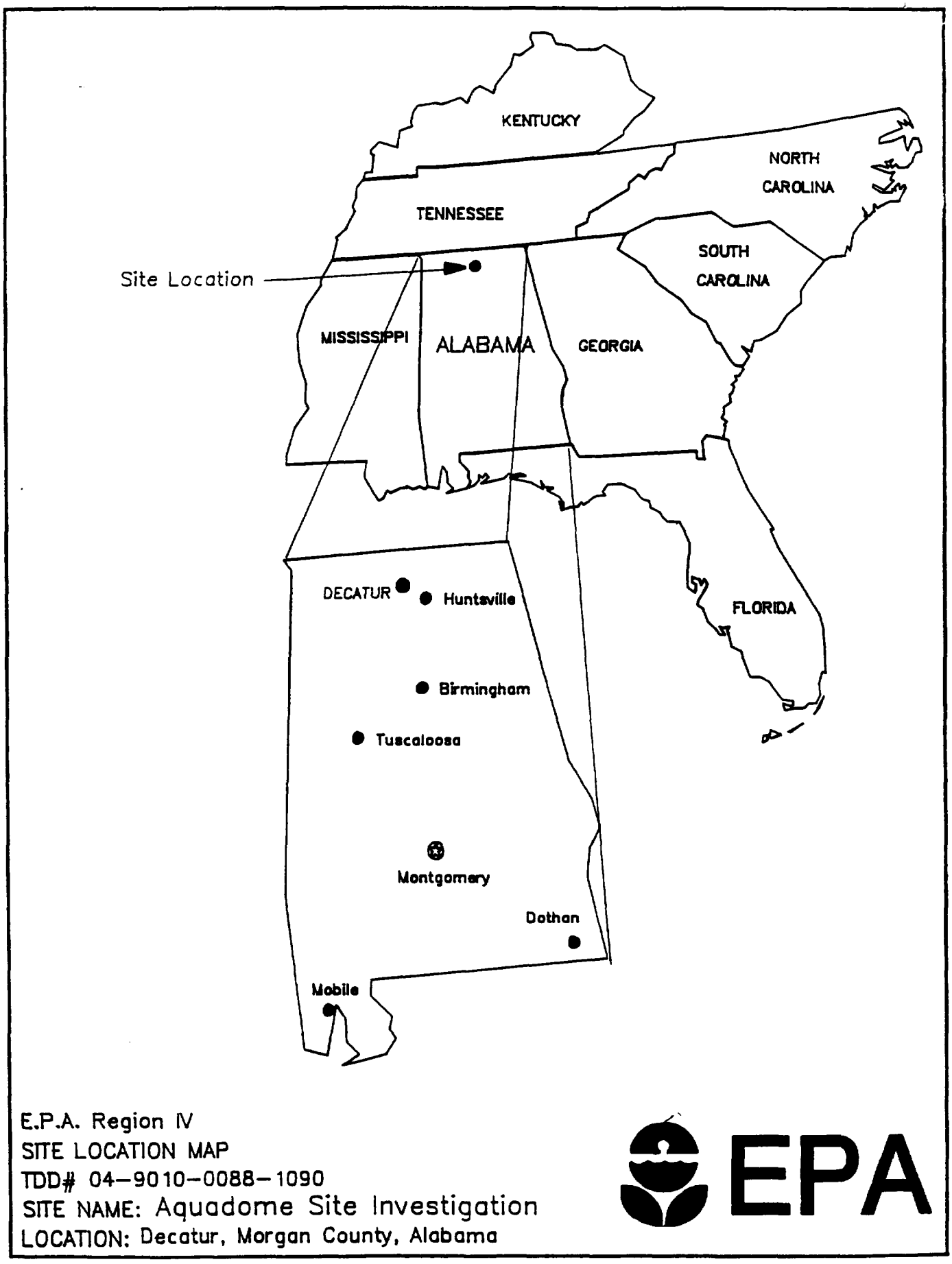
Upon TAT receipt of the analytical data, the OSC was forwarded a copy of the laboratory data and a data summary. Further federal action is currently pending.

ATTACHMENTS

Figures 1 - 3 Maps & Sketches
Attachment A - Site Assessment Referral Form
B - Photographs
C - Log Notes
D - Table of Witnesses
E - Site Safety Plan
F - Analytical Table
G - Sampling Plan
H - Laboratory Results

FIGURE 1

Site Location Map

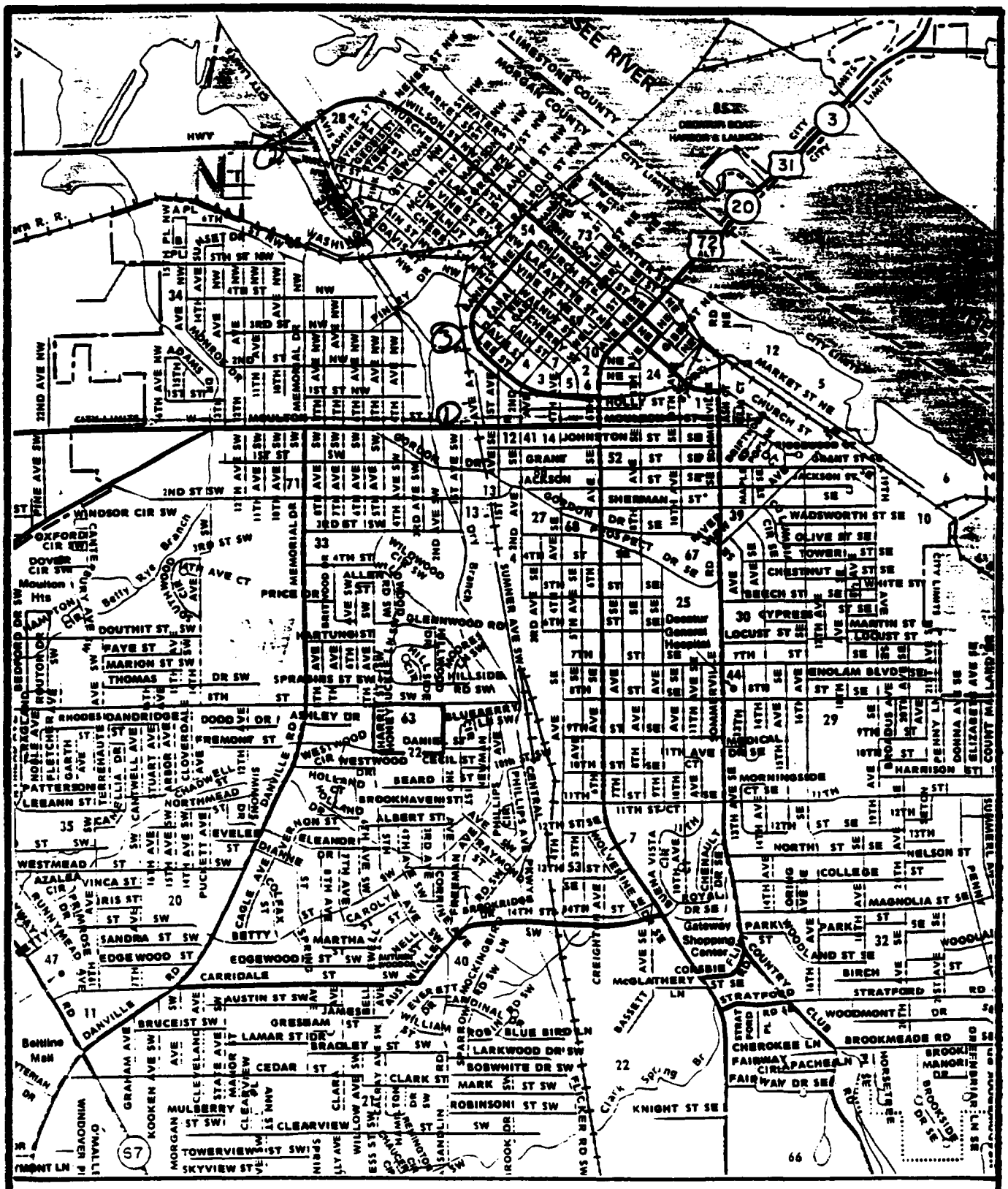


E.P.A. Region IV
SITE LOCATION MAP
TDD# 04-9010-0088-1090
SITE NAME: Aquadome Site Investigation
LOCATION: Decatur, Morgan County, Alabama

EPA

FIGURE 2

Area Location Map



E.P.A. Region IV

SITE DIAGRAM

TDD# 04-9010-0088-1090

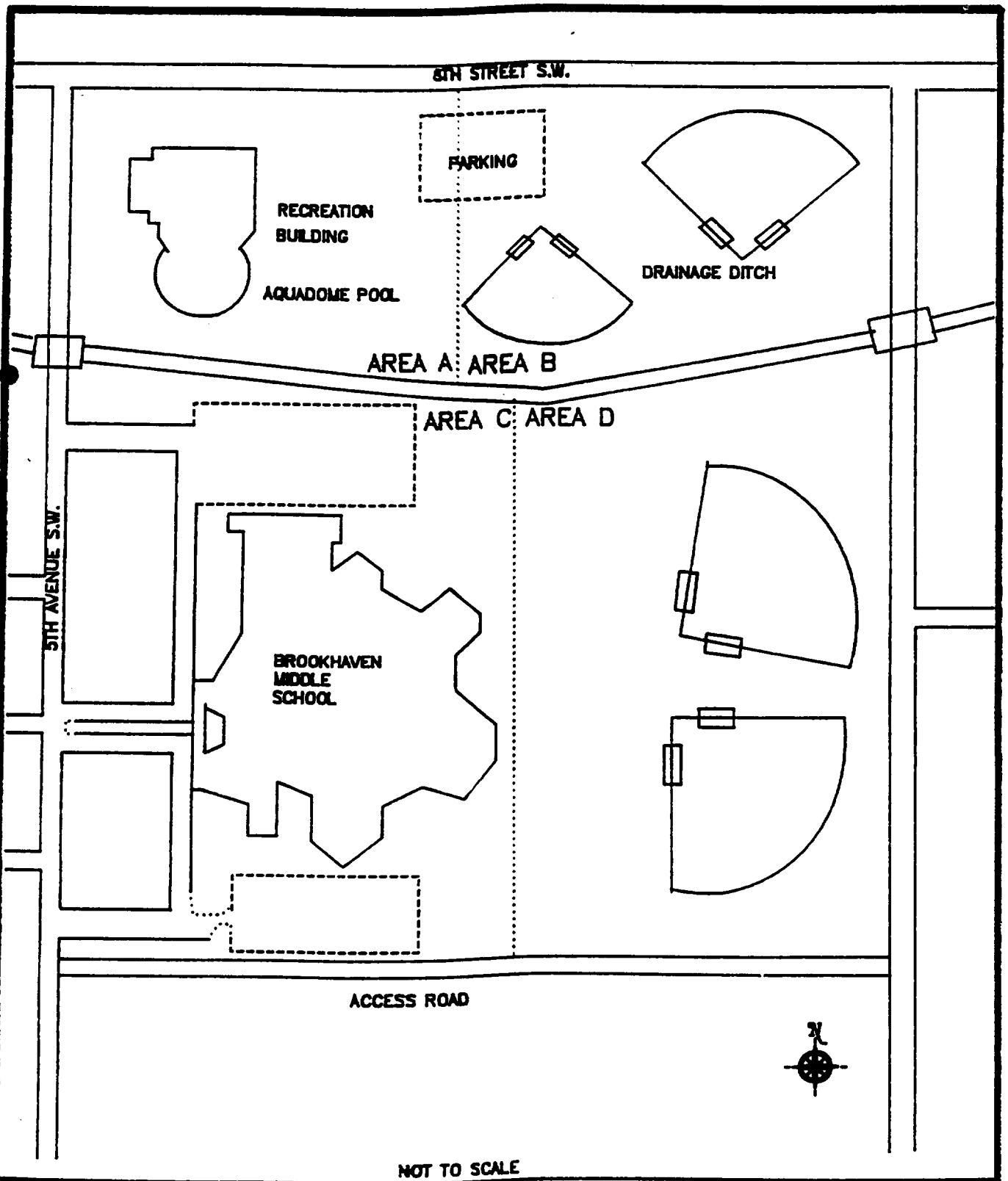
SITE NAME: Aquadome Site Investigation

LOCATION: Decatur, Morgan County, Alabama

EPA

FIGURE 3

Site Diagram



E.P.A. Region IV
SITE DIAGRAM
TDD# 04-9010-0088-1090
SITE NAME: Aquadome Site Investigation
LOCATION: Decatur, Morgan County, Alabama

EPA

ATTACHMENT A

Site Assessment Referral Form

USEPA REGION 4 EMERGENCY RESPONSE BRANCH
SITE ASSESSMENT REFERRAL FORM

SITE NAME: AQUADOME SITE INVESTIGATION	**TDD No:** 04-9010-0088
SITE LOCATION: (ATTACH MAP) DECATUR, MORGAN COUNTY, ALABAMA	
DESCRIPTION OF TAT INCIDENT RESPONSE: (Include Dates) ON 3 NOVEMBER 1990, TWO TAT MEMBERS CONDUCTED A SAMPLING INVESTIGATION, THAT INCLUDED AIR AND SOIL SAMPLING. AIR SAMPLES WERE COLLECTED INSIDE BROOKHAVEN MIDDLE SCHOOLS AND OUTSIDE ON THE GROUNDS OF BOTH SCHOOL AND THE AQUADOME RECREATION CENTER.	
LONG-TERM CLEAN-UP GOALS:	
SITE DESCRIPTION (ATTACH SITE LAYOUT MAP)	
TYPE OF FACILITY: A FORMER MUNICIPAL LANDFILL/BURN PIT THAT CLOSED IN 1964, THAT IS PRESENTLY THE SITE OF A SCHOOL AND RECREATION. CENTER.	
KNOWN OR SUSPECTED HAZARDOUS SUBSTANCES PRESENT ON SITE: TRACE LEVEL INORGANICS, ORGANICS, PESTICIDES AND PCB'S	
WASTE QUANTITY (Drums, Soils, Lagoons, etc...):	
REGULATORY STATUS:	
OWNER/LESSEE NAME: CITY OF DECATUR, ALABAMA	
ADDRESS:	**PHONE:**
SITE CONTACT - NAME:	
ADDRESS:	**PHONE:**
USEPA CONTACT - NAME: SHANE HITCHCOCK	**PHONE:** 404-347-3931
TAT CONTACT - NAME: SCOTT DUNBAR	**PHONE:** 404-352-4147
TARGET INFORMATION	
OBSERVED RELEASE TO ENVIRONMENT (Attach Sampling Data)	**YES:** **NO:** X
SURFACE WATER:	
GROUNDWATER:	
AIR:	
SURFACE WATER	
LOCATION OF NEAREST DOWNGRADIENT SURFACE WATER BODY (Lake, Stream, Ocean, etc...) (Show On Map): DRY BRANCH CREK FLOWS THROUGH THE SITE AND DRY BRANCH CREEK FLOWS INTO THE TENNESSEE RIVER.	
LOCATION OF SURFACE WATER INTAKE (Show On Map):	
NUMBER OF PEOPLE SERVED:	
CITY/COUNTY WATER SYSTEM CONTACTS:	

NAME:	**PHONE:**	**NAME:**	**PHONE:**
ADDRESS:		**ADDRESS:**	

RECREATIONAL USE (Boating, Fishing, Swimming, etc...):

SITE ASSESSMENT REFERRAL FORM

SURFACE WATER (Cont...)

AGRICULTURAL USE: N O

SENSITIVE ENVIRONMENTS (Wetlands, Endangered Species):

THREAT TO HUMAN FOOD CHAIN:

GROUNDWATER

CITY/COUNTY WATER SYSTEM CONTACTS:

NAME:	PHONE:	NAME:	PHONE:
ADDRESS:		ADDRESS:	

LOCATION OF WELLS:

DEPTH OF WELLS:

NUMBER OF PEOPLE SERVED:

PRIVATE WELL USE SURVEY (Number of homes within 0.5 miles of site) (Attach survey forms):

KARST AQUIFER AREA (LIMESTONE/SINKHOLES):

ONSITE EXPOSURE/DIRECT CONTACT

SITE ACCESS (Restricted, Unrestricted): UNRESTRICTED

OCCUPIED BUILDINGS ON SITE: SCHOOL AND RECREATION CENTER WORKERS ON SITE:

SCHOOLS/DAYCARE CENTERS WITHIN 0.5 MILES:

EXPOSURE PATHWAYS (Contaminated Soils, Lagoons, Drums, etc...): INGESTESTION, INHALATION FROM SOILS

POTENTIAL FOR AIR RELEASE (Describe Known or Potential Sources of Air Emissions on Site): VERY SLIGHT

OTHER COMMENTS

ATTACHMENT B

Photographs

PHOTO #1
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Air sample collection inside the corridor of the lowest occupied level of Brookhaven Middle School.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

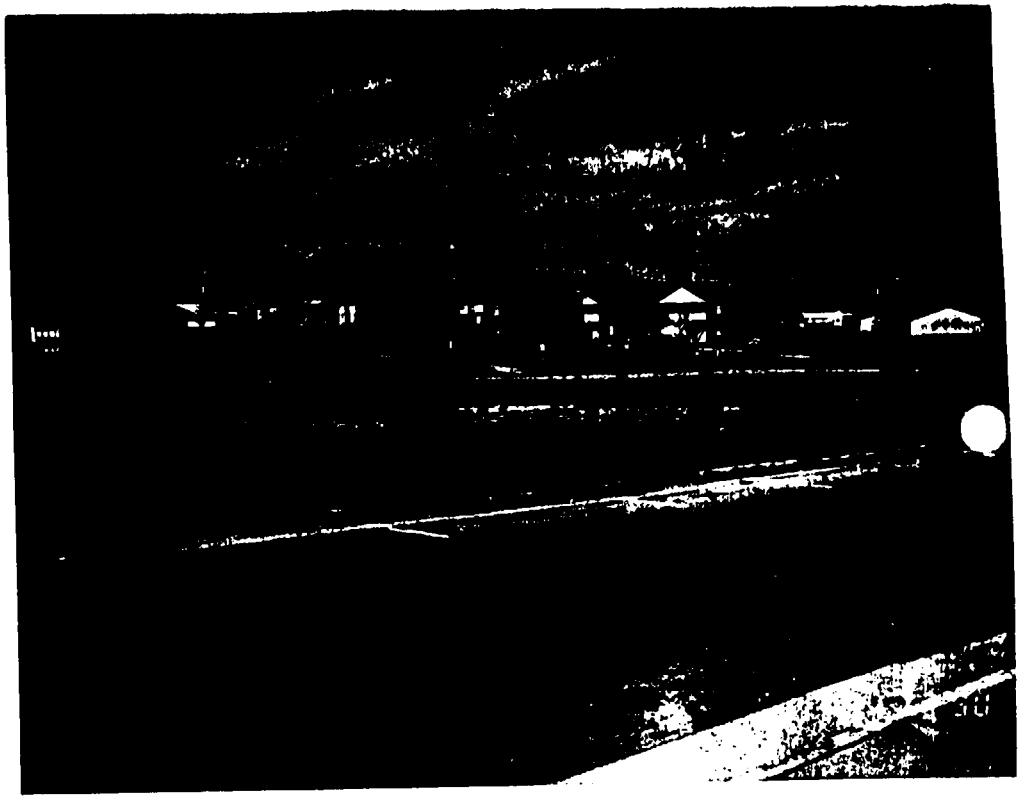


PHOTO #2
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The grounds between Brookhaven Middle School and 5th Avenue Southwest.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #3
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The grounds between Brookhaven Middle School and Aquadome Recreation Center.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #4
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The grounds east of Brookhaven Middle School.

Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

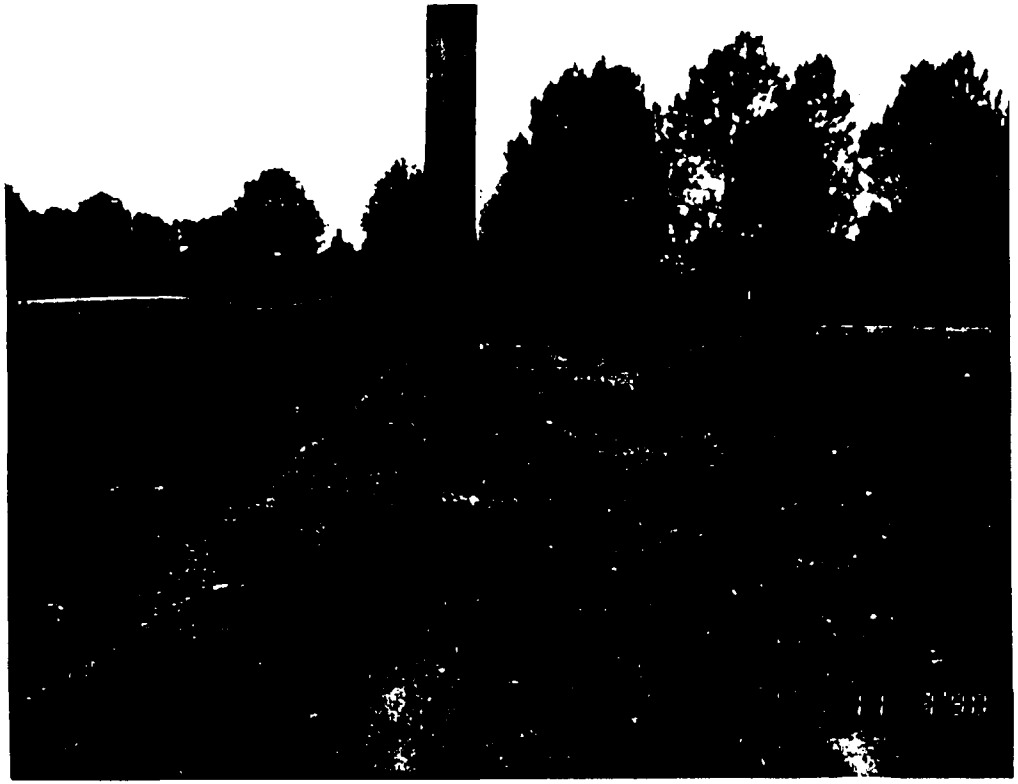


PHOTO #5
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: A surface water drainage ditch east of Brookhaven Middle School between the parking lot and the recreation centers ball diamonds.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #6
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The view of Dry Creek while facing east.

Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #7
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The view of Dry Creek while facing west.

Location: Aquadome Recreation Center
Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #8
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The view from the northwest side of Aquadome Recreation facility of the west side of the grounds.

Location: Aquadome Recreation Center
Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #9
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The view facing north on the east side of the Aquadome Recreation Center.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #10
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The east of the Aquadome Recreation Center.

Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

PHOTO #11
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The view north from the center of Aquadome Recreation Center grounds.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

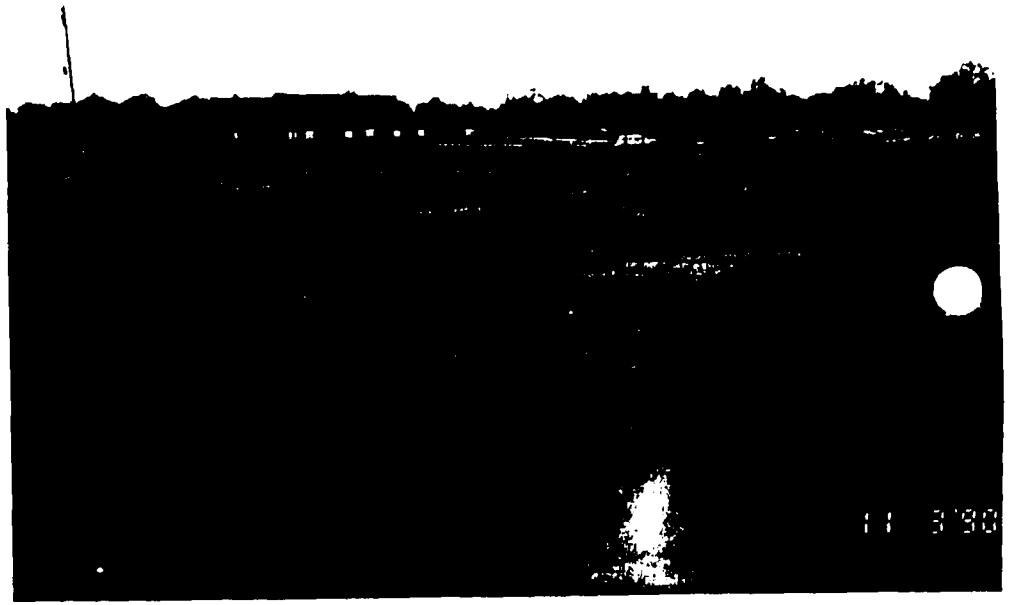


PHOTO #12
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The view south from the center of Aquadome Recreation Center grounds.
Location: Aquadome Recreation Center Decatur, Alabama
Photographer: S. Dunbar **Date:**11/03/90
Film: 35mm **ASA:** 100 **Time:**
TDD# 04-9010-0088-1090 **Witness:** M. Hill
Location of Negatives: Atlanta TAT Office

ATTACHMENT C

Log Notes

2 NOVEMBER 1990

EST 1600 TAT members S. Dunbar and M. Hill depart Atlanta tat office Via EPA Vehicle # 781 Enroute Decatur, al.

2000 TAT arrived in decatur. S. Dunbar contacted Mr. Ed Smith the site contact and confirmed sampling arrangements for 3 NOV 90.

EST 2030 Secured for the night.

Scott Dunbar

3 November 1990

CST 0730 Tat departed hotel Enroute to the site

0800 Tat arrived at the site and Met with Mr. Ed Smith, Decatur school maintenance superintendent. Mr. Smith escorted tat on Tour of Brookhaven Middle School.

0830 Tat determined that one representative air sample would be suffient in the lower level of the school. the sample collection pp began as per labs instruction

0900 after collecting the sample from a hallway in the center of the lowest level of the school, that is normaly occupied by students. Sample ID 110390 C1.

0920 Tat began air sample collection between areas "a"-"c". the collection points was in the middle of the site, the wind was out of South at 2-5 MPH.

0950 after collecting the air Sample the sample was labled ID # 110390 A1. Tat then decond Sampling equipment to collect representative soil samples from area "C" one Surface soil composite sample was collected

(CONT) 3 NOVEMBER 1990

0950 the composite sample was comprised of 9 aliquants from areas around the outside of the school. Sample ID # 110390 I A.

1030 Tat collected a Subsurface soil sample from area "C", the composite sample was collect from a depth of 6 inches from 8 aliquants that the ~~Stop~~ surface sample was collected this Subsurface composite was labelled ID # 110390 C Z.

1100 one ~~Sur~~ surface soil composite sample was collected in area "D" using 7 aliquants Sample ID # 110390 D A.

1130 one Subsurface soil composite sample was collected in area "D" using the same 7 aliquants as the surface sample Subsurface Sample ID # 110390 D Z.

Note the OVA was utilized to screen bore hole in the subsurface samples but No detection were Noted above background

1310 one Surface soil composite sample's was collected in area "A" from around the outside of the Aquadome recreation facility the sample was collected from 9 aliquants and Sample ID # 110390 A A.

1345 one Subsurface soil composite sample was collected from the same 9 aliquants as the surface sample. This Subsurface soil composite sample is labled ID # 110390-A Z

1415 ~~1445~~ one surface soil composite sample was collected in area "B" from 8 aliquants the Sample ID # 110390 B A

(CONT)

3 NOVEMBER 1990

1445 one ~~Soil~~ Subsurface soil composite sample was collected in area "B" using the same 8 aliquants as the surface sample. This Subsurface sample was labled ID# 110390 B2.

1500 an air sample was collected between area's "B"-"C". the wind was calm. this air sample was labeled ID# 110390 B1

1500 a field blank air sample was made and labeled 110390 Z1.

Sample Summary

One surface soil composite sample and one Subsurface soil composite sample (6 inch Depth) were collected in each of the four areas. these samples are a credible representative of the areas. three air samples were collected one representative of the lower level of Brookhaven Middle school and two from between area's "A"-"C" and "B"-"D" ~~respectively~~ respectively. All of the soil samples were preserved at 4°C and the air samples were stored at Room temp. as per labs instructions. all of the Sample were labled, tagged and sealed. and a chain of custody record was generated for ~~the~~ both the soil Samples and air samples.

cont

3 NOVEMBER 1990

1600 TAT departed Decatur for atlanta Ga

1930 TAT arrived atlanta and unloaded Equipment from Vehicle.

EST 2000 Secured for the day

Scott Dunbar

ATTACHMENT D

Table of Witnesses

TABLE OF WITNESSES

Scott W. Dunbar
Assistant Regional Safety Officer
Roy F. Weston, Incorporated
Technical Assistance Team.
1575 Northside Drive, N.W.
Building 100, Suite 120
Atlanta, Georgia, 30318
(404) 352-4147

Mikhail Hill
Roy F. Weston, Incorporated
Technical Assistance Team
1575 Northside Drive, N.W.
Building 100, Suite 120
Atlanta, Georgia, 30318
(404) 352-4147

ATTACHMENT E

Site Safety Plan

WESTON MAJOR PROGRAMS DIVISION

HEALTH AND SAFETY PLAN

EMERGENCY RESPONSE / SITE INVESTIGATION

TDD No. 04-9010-0088-1090 Site Name: Aquadome

Site Address: Street No. _____

City DECATUR

County/State MORGAN COUNTY, ALABAMA

Site Contact / Phone No.: ED SMITH (205) 552-3076

Directions to Site:(Att.Map) I-65 North to Exit 340 (ALT 72) To Moulton ST West (RIGHT) To DANVILLE Rd (LEFT) To 8TH STREET EAST (left) To the school grounds

Historical/Current Site Information:

THE SITE WAS USED AS AN AREA TO BURN WASTE SOLVENTS. UNTIL the late 1950's. IN the Early 70's A SCHOOL AND Recreation Park was built on top of the area. NUS had conducted an ES AT the site in 1984 and found trace levels of waste in sediment and deep bore holes - they are worried about drinking water contamination

Incident Type:
- ( ) Air Release - _____
- ( ) Spill - _____
- ( ) Fire - _____
- (✓) HW Site - A SCHOOL + RECREATION AREA BUILT OVER a FORMER CHEM Dumping

Location Class : ( ) Industrial ( ) Commercial (✓) Urban/Residential ( ) Rural

USEPA Contact: SHANE HITCHOCK Date of Initial Site Activities: 11/3/90

Original HASP: Yes ✓ Modification Number: _____

Lead TAT: S. DUNBAR Site Health & Safety Coordinator: S. DUNBAR

Response Activities/Duration (fill in as applicable)

Emergency Response:	( ) Perimeter Recon.	_____
	( ) Site Entry	_____
	( ) Visual Documentation:	_____
	( ) Multi-media Sampling:	_____
	( ) Decontamination:	_____
Assessment:	(✓) Perimeter Recon.	_____
	(✓) Site Entry	Level "D"
	(✓) Visual Documentation:	Photo / log book
	(✓) Multi-media Sampling:	Soil / air
	(✓) Decontamination:	Water wash of soil sample Equipment

Physical Safety Hazards to Personnel

( ) Heat ( ) Cold ( ) Precipitation ( ) Confined Space ( ) Terrain
( ) Walking/Working Surfaces ( ) Fire & Explosion ( ) Oxygen Deficiency
( ) Underground Utilities ( ) Overhead Utilities ( ) Heavy Equipment
( ) Unknowns in Drums, Tanks, Containers ( ) Ponds, Lagoons, Impoundments
(✓) Rivers, Streams ( ) Pressurized Containers, Systems ( ) Noise
( ) Illumination ( ) Nonionizing Radiation ( ) Ionizing Radiation

Biological Hazards to Personnel

( ) Infectious/Medical/Hospital Waste ( ) Non-domesticated Animals ( ) Insects
( ) Poisonous Plants/Vegetation ( ) Raw Sewage

Training Requirements

(✓) 40 Hour General Site Worker Course with three days supervised experience.
( ) 24 Hour Course for limited, specific tasks with one day supervised experience.
( ) 24 Hour Course for Level D Site with one day supervised experience.
(✓) 8 Hour Annual Refresher Health and Safety Training.
(✓) 8 Hour Management/Supervisor Training in addition to basic training course.
( ) Site Specific Health and Safety Training.
( ) Pre-entry training for emergency response skilled support personnel.

Medical Surveillance Requirements

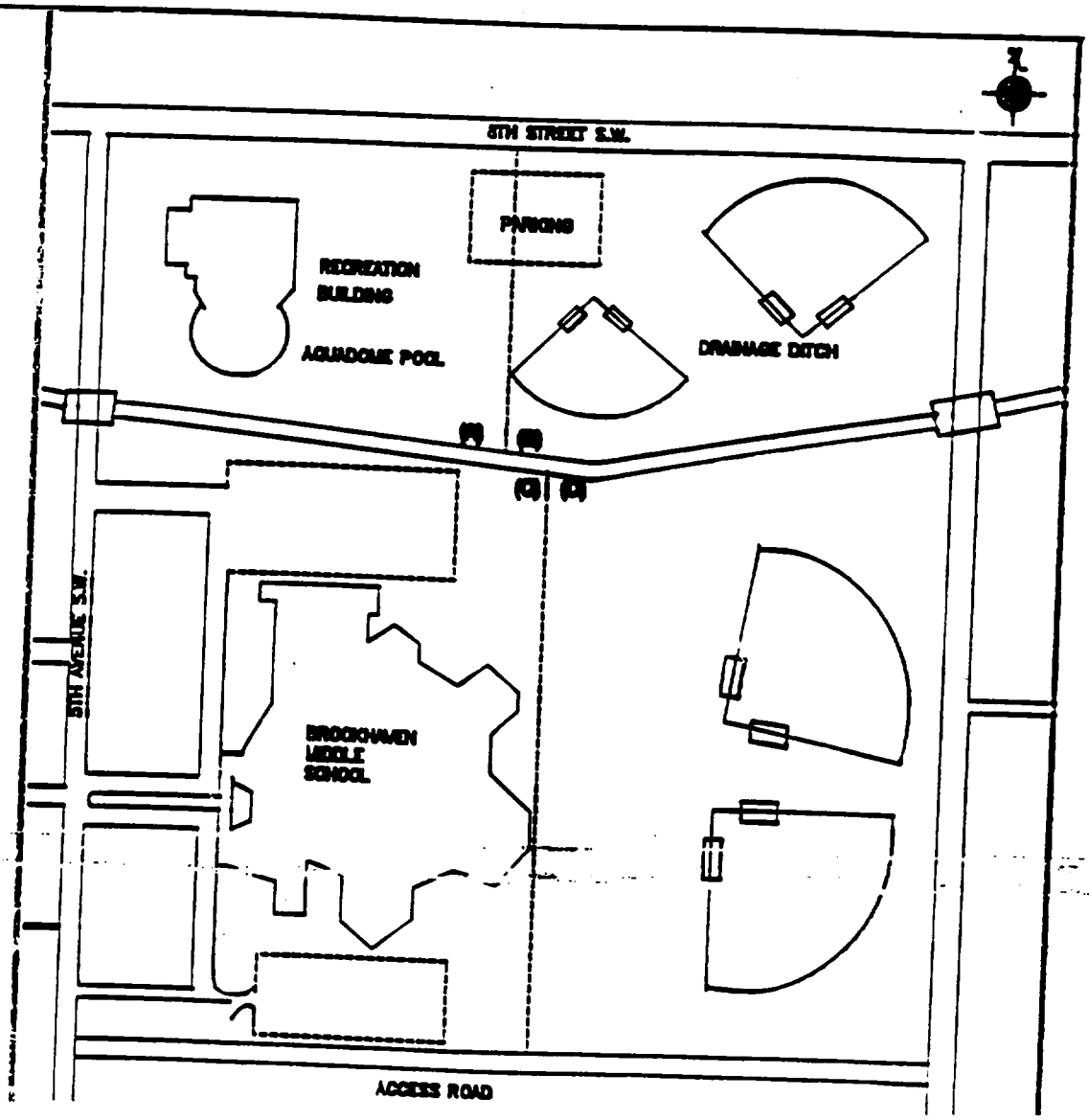
(✓) Baseline initial physical examination with physician certification.
(✓) Annual medical examination with physician certification.
( ) Site Specific medical monitoring protocol (Radiation, Pesticide, PCB, Metals).
( ) Asbestos Worker medical protocol.
( ) Exempt from medical surveillance:_____.
( ) Examination required in event of chemical exposure or trauma.

Chemical Hazards to Personnel

Physical Parameters	Chemical Contaminant	Chemical Contaminant	Chemical Contaminant	Chemical Contaminant
	TRACE LEVELS ORGANIC's	TRACE LEVELS ACB / Pesticides	TRACE LEVELS INORGANIC	
Exposure Limits IDLH Level	____ ppm ____ mg/m³ PEL ____ ppm ____ mg/m³ TLV ____ ppm ____ mg/m³ IDLH	____ ppm ____ mg/m³ PEL ____ ppm ____ mg/m³ TLV ____ ppm ____ mg/m³ IDLH	____ ppm ____ mg/m³ PEL ____ ppm ____ mg/m³ TLV ____ ppm ____ mg/m³ IDLH	____ ppm ____ mg/m³ PEL ____ ppm ____ mg/m³ TLV ____ ppm ____ mg/m³ IDLH
Physical Form Sol.Liq.Gas. Color	____ Solid ____ Liquid ____ Gas ____ Color	____ Solid ____ Liquid ____ Gas ____ Color	____ Solid ____ Liquid ____ Gas ____ Color	____ Solid ____ Liquid ____ Gas ____ Color
Odor				
Flash Point Flammable limits	____ Degrees F or C ____% UEL ____% LEL	____ Degrees F or C ____% UEL ____% LEL	____ Degrees F or C ____% UEL ____% LEL	____ Degrees F or C ____% UEL ____% LEL
Vapor Press. Vapor Dens.	____ mm/Hg ____ Air = 1	____ mm/Hg ____ Air = 1	____ mm/Hg ____ Air = 1	____ mm/Hg ____ Air = 1
Specific Gravity	____ Water = 1	____ Water = 1	____ Water = 1	____ Water = 1
Solubility				
Incompatible Materials				
Route of Exposure	____ Inh ____ Abs ____ Con ____ Ing	____ Inh ____ Abs ____ Con ____ Ing	____ Inh ____ Abs ____ Con ____ Ing	____ Inh ____ Abs ____ Con ____ Ing
Symptoms of Acute Exposure				
First Aid Treatment				
Ion Potential	____ eV	____ eV	____ eV	____ eV
Instruments For Detection	✓ PID w/ ____ Probe ____ FID ✓ CGI ✓ RAD ____ Det Tube ____ Ph Other ____	____ PID w/ ____ Probe ____ FID ____ CGI ____ RAD ____ Det Tube ____ Ph Other ____	____ PID w/ ____ Probe ____ FID ____ CGI ____ RAD ____ Det Tube ____ Ph Other ____	____ PID w/ ____ Probe ____ FID ____ CGI ____ RAD ____ Det Tube ____ Ph Other ____

Site Control Measures

Site Map with work zones:



Decontamination Procedures

(✓) Wet Decontamination - using: SOAP + WATER
( ) Dry Decontamination

Description of Site Specific Decontamination Plan: ALL SOIL SAMPLING EQUIPMENT SHALL BE WASHED BETWEEN AND AFTER USE. ANY SKIN ~~EXPOSED~~ CONTACTING SOIL SHALL BE WASHED IMMED.

Adequacy of decontamination determined by: [signature]

Personal Protective Equipment

TASK TO BE PERFORMED/AIR MONITORING REQUIRED	ANTICIPATED LEVEL OF PROTECTION	TYPE OF CHEMICAL PROTECTIVE COVERALL	INNER GLOVE OUTER GLOVE BOOT COVER	TYPE OF APR CARTRIDGE OR CANISTER
AIR SAMPLING WHILE SETTING UP AND TAKING DOWN PUMPS	LEVEL "D"	SAFETY SHOES	LATEX GLOVES	
SOIL SAMPLING SURFACE GENERAL FIELD SCREEN	LEVEL "D"	SAFETY SHOES	LATEX GLOVES	
SOIL SAMPLING SHALLOW / SUBSURFACE IN BORE HOLES. + BREATHING ZONE	LEVEL "D" AS LONG AS Reading REMAIN AT BACKGROUND IN THE BREATHING ZONE.	SAFETY SHOES	LATEX GLOVES	

Frequency and Types of Air Monitoring: ( ) **Continuous** (✓) **Routine -** AS ABOVE ( ) **Periodic -** _____

DIRECT READING INSTRUMENTS	COMBUSTIBLE GAS/OXYGEN METER (1)	RADIATION SURVEY METER/PROBE (2)	PHOTOIONIZATION DETECTOR/PROBE (3)	FLAME IONIZATION DETECTOR (4)	CHEM. DETECTOR TUBE (5)
ID NUMBER	EPA 898353	EPA 190571	SN A 70348 ~~EPA~~	EPA 313838	
CAL. DATE	11/2/90	11/2/90	11/2/90	11/2/90 11/3/90	
TAT MEMBER	DUNBAR	DUNBAR	DUNBAR	DUNBAR	
ACTION LEVEL	≥ 20%LEL ≤19.5%, ≥23% O_2 - LEAVE	3X BACKGRND - CAUTION: 1 MR/HR-LEAVE	UNKNOWNS 0-5 UNITS:"C" 5-500:"B"	UNKNOWNS 0-5 UNITS:"C" 5-500:"B"	PEL/TLV COMPARE W/PF

Emergency Phone Numbers

Emergency Contact	Location	Phone Number	Notified
Hospital	DECATUR	(205) 552-0055	NO
Ambulance	Decatur Suburban Ambulance	355-3644	NO
Police	DECATUR	353-2515	NO
Fire Dept.	Decatur	351-7952	NO.

Chemical Trauma Capability? (✓) Yes ( ) No If no, closest backup:_____ Phone:_____

Directions to Hospital (attach map) - Route verified by:_____ Date: __/__/__

FROM SITE GO NORTH ON 5TH AVE., TO 3RD ST EAST, TO ~~ER~~ 1ST AVE NORTH, TO 2ND ST EAST, TO GORDON DR EAST, TO 8TH AVE SOUTH, TO PROSPECT DR. SE, TO 9TH AVE South TO 7TH ST EAST, TO 13 AVE SOUTH TO THE HOSP.
SEE MAP AT THE BACK

Additional Emergency Phone Contacts

Contact	Phone Number
WESTON 24 hr. Hotline	215-524-1925 215-524-1926
WESTON Medical Emergency Service	513-421-3063
Chemtrec	800-424-9300
ATSDR	404-639-0615
ATF (explosives information)	800-424-9555
National Response Center	800-424-8802
National Poison Control Center	800-942-5969

HASP prepared by: Scott Dunbar Date: 11/1/90

Pre-Response/Entry Approval by:_____ Date: __/__/__

Verbal Approval/Modification to Original HASP by:_____ Date: __/__/__

Physical Description of Site and Response Activities

Size of Site: 1 sq BLOCK Terrain Rolling Weather WARM
Distance to Nearest: Residence 100' School at Hospital 2½ miles
Public Building at Other _____
Evacuation: ( ) Yes (✓) No By Whom: _____
Nearest Waterway: DRY CREEK Distance from Site: THROUGH THE SITE

Condition	Observed	Potential	None	Comments/Observations
Surface Water Contamination		✓		
Ground Water Contamination		✓		
Drinking Water Contamination		✓		
Air Release			✓	
Soil Contamination		✓		
Stressed Vegetation			✓	
Dead Animal Species			✓	

Actions Taken On-Site:

Perimeter Monitoring: ( ) Yes (✓) No
Site Entry by TAT: (✓) Yes ( ) No

Tasks Conducted	Level of Protection/Specific PPE Used
TAT conducted air ~~and soil sampling~~ inside the school and soil sampling around the ground of both facilities	mod level "D" coveralls - latex gloves air monitor remained at Background throughout operation
an OVA was utilized while sampling was conducted	

Air Monitoring Summary Log

Date: 11/3/90

Data Collected by: Dunbar / Hill

Data to be summarized by a "Range od readings,i.e.,- Low to High" and "Average" by location.

Station/Location	CGI/O_2 Meter	Radiation Meter	PID/Probe	FID/OVA	Detector Tub
During Sampling				No detection above Background 1-4 units	

ummary/Comments:

Hazardous Waste Site and Environmental Sampling Activities

Off Site: ( ) Yes ( ) No
On Site: (✓) Yes ( ) No

Describe types of samples and methods used to obtain samples: Soil samples for full scan and air sampled for full scan

Was Laboratory notified of Potential Hazard Level Of Samples? (✓) Yes ( ) No

Note: The nature of the work assignment may require the use of the following procedures/programs which will b included as Attachments to this HASP as applicable: Emergency Response Plan, Confined Space Entry Procedures, Spill Containment Program.

Disclaimer: This Health and Safety Plan (HASP) was prepared for work to be conducted under the Technical Assistance Team (TAT) Contract 68-WO-0036 for Zone I. Use of this HASP by WESTON and its subcontracto. is intended to fulfill the OSHA requirements found in 29 CFR 1910.120. Items not specifically covered in this HASP are included by reference to 29 CFR 1910 and 1926.

The signatures below indicate that the individuals have read and understood this Health and Safety Plan.

PRINTED NAME	SIGNATURE	AFFILIATION	DATE
Scott W. Dunbar	Scott Dunbar	TAT	11/3/90
Mike Hill	Mike Hill	TAT	11/3/90

Final Submission of HASP by:	Scott Dunbar	Date
Post Response Review by:		
Post Response Approval by:	Kathleen M Kenney	12/1/90
TAT HSO Review by:		

COMMENTS/FOLLOWUP

WESTMEAD
Parkway Medical Center
Bethline
Area Mall
Hospital
DANVILLE PARK DR
GRAHAM AVE
KOOKEN AVE SW
MORGAN AVE
CLEVELAND AVE
STATE AVE
MANOR
CLEARVIEW
CEDAR ST
LINDA
SPRING
BELTLINE
Plum Tree Center
CLARA
WILLOW AVE SW
BRIAR AVE
SUNNYBROOK DR
SANDLIN RD
ROBINSON ST SW
MARK ST SW
BOBWHITE DR SW
LARKWOOD DR SW
BLUE BIRD LN
CARDINAL RD SW
MOCKINGBIRD LN
SPARROW RD SW
FLICKER RD SW
CREIGHTON AVE
BASSETT AVE SE
KNIGHT ST SE
BROOKS ST SE
COUNTRY LN SE
STRATFORD RD SE
CHEROKEE LN
FAIRWAY DR SE
WOODLAND AVE SE
PARKWOOD DR SE
COLLEGE ST SE
MEDICAL DR SE
ROYAL DR SE
BUENA VISTA CIR
SOMMERVILLE
Gateway Shopping Center
Decatur General Hospital
DANVILLE RD
CAROLINE ST SW
EDGEWOOD ST SW
CARRIDALE
AUSTIN ST SW
JAMES BELL AVE
BRADLEY ST SW
CLARK ST SW
ROCKWAY CIR
BRIAR CIR
RUSSELL BRIAR
BELLEMEADE ST SW
EVERETT ST SW
WILLIAM DR
HAMILTON DR SW
SKYVIEW ST SW
TOWERVIEW ST SW
SPRINGVIEW AVE SW
CLARKVIEW
MULBERRY ST SW
ANN ST
LAMAR ST DR
GRESHAM
CAGLE AVE
COLEMAN ST
DIANE
ELEANOR
NON ST
MARTHA ST
CAROLYN ST
ALBERT ST
BEARD
BROOKHAVEN ST
FREEMAN AVE
CORRINE
WESTMEAD ST SW
NORTHMEAD ST SW
CHADWELL ST
SNOWDIS DR
DANVILLE RD
FREMONT ST
DODD AVE
ASHLEY DR
WESTWOOD DR
HOLLAND DR
HOLLAND CIR
BRITWOOD DR
SPRAGINS ST SW
FORTUNGI ST
HARRIS HONEYSUCKLE LN SW
DANIEL ST
CECIL ST
NEWMAN AVE
BLUEBERRY HILL LN SW
HILLSIDE DR SW
HILLWOOD CIR
MOORE ST SW
ALLEN RD SW
WILLOWWOOD DR SW
GLENNWOOD RD SW
GORDON
DRY Branch
SUMNER AVE SW
CENTRAL PKWY
PHILLIPS AVE SW
PHILLIPS CIR
RAYMOND ST SW
BRIDGE ST SW
MOCKINGBIRD LN
WOODSIDE ST SW
AUTUMN WOOD CIR
WESTWOOD CIR
WESTWOOD ST SW
WOODMEAD ST SW
DOLETON ST SW
CASTLEMAN AVE
BYRON AVE
RUNNYMEAD AVE
PATTERSON
LEEANN ST
NOBLE AVE
FLETCHER AVE
GARTH AVE
TERREHAUTE ST
ELLIA DR
CANTWELL AVE
STUART AVE
ARBOR AVE
CLOVERDALE AVE
PUCKETT AVE
ELEVELEE ST
RUTLEDGE ST SW
RAGLAND
RHODES
ANDRIDGE
AZALEA
VINCA ST
IRIS ST
SANDRA ST SW
EDGEWOOD ST
PRIMROSE
RUNNYMEAD DR
PARKWAY CT
WESTBURY CT
ANDERSON DR
BRIGHTON ST SW
ACADIA
BELTLINE
MILLIGAN ST SW
GLENN ST SW
LANIER ST SW
FITZGERALD
LONGFELLOW DR
O'ROURKE LN
O'MALLEY PL
WINDOVER
THOREAU
WIMBERLY
FAIRGROUND
BERWICK PL
TAVISH
DEE DR
EWS ST
US RD
Louisville &
COCKRELL AVE
LOWERY ST
MILLER ST
PINE AVE SW
22ND AVE NW
BEDFORD DR SW
ROUTON DR SW
Moulton His
HAMPTON CIR
DOVER CIR SW
OXFORD CIR SW
WINDSOR CIR SW
BETTY RYE
Branch
SOUTHWOOD CIR
4TH AVE CT
2ND ST SW
3RD ST SW
PRICE DR
MEMORIAL DR
MOULTON
THOMAS
MARION ST SW
FAYE ST
DOUTHIT ST SW
DALE AVE
GULF ST NW
PLAINVIEW AVE NW
Southern R. R.
SUNSET DR NW
MONROE
WALNUT ST NW
MAIN ST NW
CHURCH ST NW
DAVIS
PINEY
RAILROAD ST
BANK ST
LAFAYETTE ST NE
MAGNOLIA
CHURCH ST
MCCARTNEY
WILSON
MADISON
HOLLY ST
ASH CT
ELM CT
POPLAR
DRIFTWOOD
CHURCH ST
MAPLE ST
BEECH ST
CYPRESS
LOCUST ST
SHERMAN ST
JACKSON
GRANT
JOHNSTON ST
PROSPECT
OR 67
RD SE
RD NE
72 ALT
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ATTACHMENT F

Analytical Table

AQUADOME ANALYTICAL DATA

	Surface AA	Subsurface AZ	Surface BA	Subsurface BZ	Surface CA	Subsurface CZ	Surface DA	Subsurface DZ
Chromium (ppm)	0.08	0.12	0.06			0.05	0.10	0.08
Copper (ppm)	0.04	0.08	0.12	0.06	0.12		0.08	0.06
Nickel (ppm)					0.06		0.08	
Zinc (ppm)	0.06	0.04	0.12		0.08	0.06	0.04	0.02
Carbon Tetrachloride (ppb)			80				40	
Xylenes (ppb)			35		20		15	
Phenol (ppb)	10							8
2-Chlorophenol (ppb)				12				

	Basement C1	Bridge A-C A1	Bridge B-D B1	A,B,C,D Z1
Carbon Tetrachloride (ppb)	.008(ppm)			
Methylene Chloride (ppm)	.009	.006		.010
Toluene (ppm)	.016	.012		.008
Benzene (ppm)			.007	
Chloroform (ppm)				.018
Xylenes (ppb)	.016(ppm)	.041(ppm)	.022(ppm)	.028

ATTACHMENT G

Sampling Plan

SAMPLING PLAN
AQUADOME SITE
Decatur, Morgan County, Alabama

The Aquadome Site Sampling Project, is expected to be carried on 3 november 1990, in two phases; soil composite and ambient sampling.

Individual soil sampling points shall be determined on the da the sampling. The criteria for sample point selection incl representative surface soil composites which will be collected exposed topsoil areas, in addition to shallow subsurface composites in those areas which exhibit signs of depression wi would indicate former trenches.

All soil composite samples will be analyzed for Inorga Purgeable Organic, Extractable Organic, Pesticides, and PCBs. laboratory selection will be carried out via the three bid proc For each sample analysis individual samples will packaged preserved in the following manner or as per the laborato requirements.

Inorganics - One 8-oz. widemouth glass with Teflon lined clos and cooled to 4 degrees C.

Purgeable Organics - Two 40 ml VOA vial with Teflon lined se seals and cooled to 4 degrees C.

Extractable Organics - One 8-oz. widemouth glass with Teflon l closure and cooled to 4 degrees C.

Pesticides and PCBs - One 8-oz. widemouth glass with Teflon l closure and cooled to 4 degrees C.

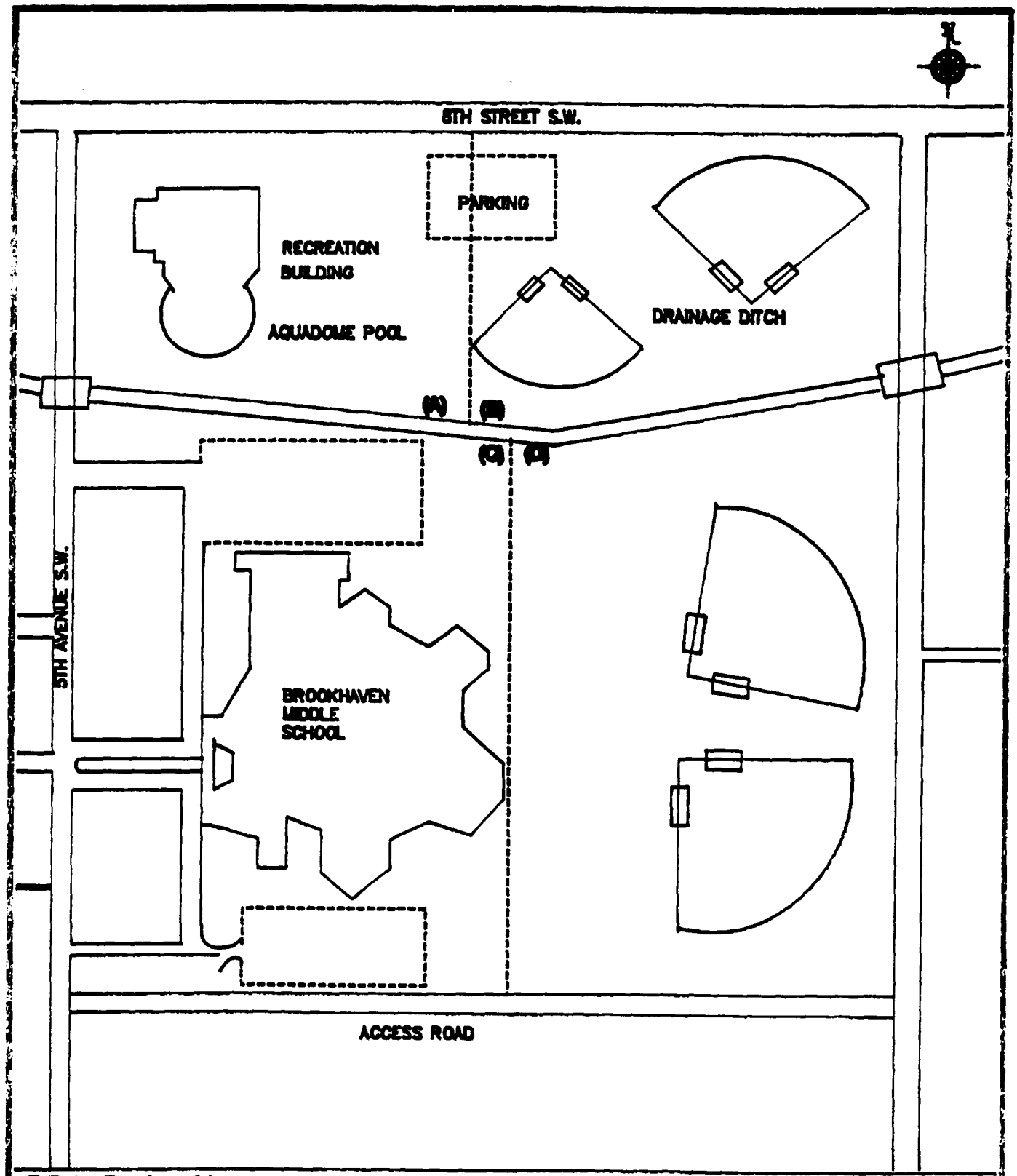
All exact ambient air sample points shall be determined on the of sampling. The determination for location is dependent on wind direction and location best suited to collect a representa sample.

All air samples will be analyzed for Purgeable Organic Extractable Organic. The laboratory selection will be carried the same process as stated above. For each sample point indivi samples will packaged and preserved as per the laborato requirements.

The samples will be transported to the laboratory via the expedient means due to the holding time.

All the samples shall be labeled by date, location, and samples will also include depth ie: 110490 B1 or 110490 D2 Z-

110490 indicates Month, Day, Year.



E.P.A. Region IV
SAMPLING PLAN DIAGRAM
TDD# 04-9010-0088-1090
SITE NAME: Aquadome Site Sampling
LOCATION: Decatur, Morgan County, Alabama

EPA

B1 indicates Area B, Location 1.(The area's are shown on the sampling plan diagram)
A indicates Surface Soil Composite.
Z-6 indicates Subsurface Soil Composite at a six inch depth.

ATTACHMENT H

Laboratory Results

Action Testing & Consulting Laboratory, Inc.

Chemists • Bacteriologists • Engineers
Testing • Research • Consulting
Pollution Studies

1800 Montreal Ct., Suite A
Tucker, GA 30084
(404) 270-9550 • FAX (404) 270-1807
• Mobile (404) 558-4509

November 29, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Revd. 11-30-90

9011-202-0315
Agradome

Laboratory # 04740
P. O. # 16-1394

Dear Ms. Duvie:

PRIORITY POLLUTANT METALS

	Limit of Detection mg/l	RESULTS (mg/l) SAMPLE ID AA	AZ	BA	BZ	CA	CZ	DA	DZ
Antimony (Sb)...	0.07	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium (Be)..	0.03	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)....	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)....	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (Cr)...	0.02	0.08	0.12	0.06	ND	ND	0.05	0.10	0.08
Copper (Cu).....	0.02	0.04	0.08	0.12	0.06	0.12	ND	0.08	0.06
Lead (Pb).....	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Mercury (Hg)....	0.20	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (Ni).....	0.02	ND	ND	ND	ND	0.06	ND	0.03	ND
Silver (Ag).....	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Selenium (Se)...	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Thallium (Tl)...	0.03	ND	ND	ND	ND	ND	ND	ND	ND
Zinc (Zn).....	.005	0.06	0.04	0.12	ND	0.03	0.06	0.04	0.02

ND = None Detected

Sample Coding:

AA - Area A Surface Composite 110390AA
AZ - Area A Subsurface Composite 6" 110390 AZ
BA - Area B Surface Composite 110390BA
BZ - Area B Subsurface Composite 6" 110390BZ
CA - Area C Surface Composite 110390CA
CZ - Area C Subsurface Composite 6" 110390CZ
DA - Area D Surface Composite 110390DA
DZ - Area D Subsurface Composite 6" 110390DZ

Listed above are the results for your eight soil samples for Priority Pollutant Metals.

If you require further information, please let us know.

Thank you.

Respectfully submitted.

Charles Malone

Charles Malone
Technical Consultant

CTM/vm

Action Testing & Consulting Laboratory, Inc.

Chemists • Bacteriologists • Engineers
Testing • Research • Consulting
Pollution Studies

1800 Montreal Ct., Suite A
Tucker, GA 30084
(404) 270-9550 • FAX (404) 270-1807
• Mobile (404) 558-4509

November 28, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Laboratory # 04739
P. O. # 16-1394

Dear Ms. Duvie:

Sample: Area A Surface Composite 110390AA

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area A Subsurface Composite 6" 110390AZ

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area B Subsurface Composite 6" 110390BZ

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl Bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area 7 Surface Composite 110390BA

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area C Surface Composite 110390CA

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	20

Sample: Area C Subsurface Composite 6" 1203900?

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area D Surface Composite 110390DA

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	40
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl Bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area D Subsurface Composite 6" 110390DZ

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Listed above are the results for your eight soil samples for Volatile Compounds.

If you require further information, please let us know.

Thank you.

Respectfully submitted,

Charles Malone

Charles Malone
Technical Consultant

CTM/vm

Action Testing & Consulting Laboratory, Inc.

Chemists • Bacteriologists • Engineers
Testing • Research • Consulting
Pollution Studies

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November 28, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Laboratory # 04739
P. O. # 16-1394

Dear Ms. Duvie:

Sample: Area A Surface Composite 112790AA

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl Bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area A Subsurface Composite 6" 110390AZ

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area B Surface Composite 110390BA

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (ppb)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	100
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area B Subsurface Composite 6" 11039082

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (ppb)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl Bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area C Surface Composite 110390CA

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area C Subsurface Composite 6" 11039007

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPB)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area D Surface Composite II0390DA

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (ppb)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	50
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Sample: Area 7 Subsurface Composite [illegible]

PURGEABLE COMPOUNDS

	DETECTION LIMIT	RESULTS (ppb)
Acrolein	10 ppb	ND
Acrylonitrile	10 ppb	ND
Benzene	10 ppb	ND
Bromoform (Tribromomethane)	10 ppb	ND
Carbon Tetrachloride	10 ppb	ND
Chlorobenzene	10 ppb	ND
Chlorodi-bromomethane	10 ppb	ND
Chloroethane	10 ppb	ND
Chloroform (Trichloromethane)	10 ppb	ND
Dichlorobromomethane	10 ppb	ND
Dichlorodifluoromethane	10 ppb	ND
1,1-Dichloroethane	10 ppb	ND
1,2-Dichloroethane	10 ppb	ND
1,1-Dichloroethylene	10 ppb	ND
1,2-Dichloropropane	10 ppb	ND
1,2-Dichloropropylene	10 ppb	ND
Ethylbenzene	10 ppb	ND
Methyl bromide (Bromomethane)	10 ppb	ND
Methyl Chloride (Chloromethane)	10 ppb	ND
Methylene Chloride (Dichloromethane)	10 ppb	ND
1,1,2,2-Tetrachloroethane	10 ppb	ND
Tetrachloroethylene	10 ppb	ND
Toluene	10 ppb	ND
1,2-Trans-Dichloroethylene	10 ppb	ND
1,1,1-Trichloroethane	10 ppb	ND
1,1,2-Trichloroethane	10 ppb	ND
Trichloroethylene	10 ppb	ND
Trichlorofluoromethane	10 ppb	ND
Vinyl Chloride (Chloroethylene)	10 ppb	ND
Xylenes	10 ppb	ND

Listed above are the results for your eight soil samples for Purgeable Compounds.

If you require further information, please let us know.

Thank you.

Respectfully submitted,

Charles Malone

Charles Malone
Technical Consultant

CTM/vm

Action Testing & Consulting Laboratory, Inc.

Chemists • Bacteriologists • Engineers
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November 28, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Laboratory # 04738
P. O. # 16-1394

Dear Ms. Duvie:

Sample: Area A Surface Composite 120390AA

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area A Subsurface Composite 6" 110390AZ

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area B Surface Composite 110390BA

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	* 10	ppb
Acenaphthylene	* 10	ppb
Anthracene	* 10	ppb
Benzidine	* 10	ppb
Benzo (a) anthracene	* 10	ppb
Benzo (a) pyrene	* 10	ppb
3,4-Benzo-fluoranthene	* 10	ppb
Benzo (ghi) perylene	* 10	ppb
Benzo (k) fluoranthene	* 10	ppb
Bis (2-chloroethoxy) methane	* 10	ppb
Bis (chloromethyl) ether	* 10	ppb
Bis (2-chloroethyl) ether	* 10	ppb
Bis (2-chloroisopropyl) ether	* 10	ppb
Bis (2-ethyl-hexyl) phthalate	* 10	ppb
4-Bromophenyl phenyl ether	* 10	ppb
Butyl benzyl phthalate	* 10	ppb
2-Chloronaphthalene	* 10	ppb
4-Chlorophenyl phenyl ether	* 10	ppb
Chrysene	* 10	ppb
Dibenzo (a,h) anthracene	* 10	ppb
1,2-Dichlorobenzene	* 10	ppb
1,3-Dichlorobenzene	* 10	ppb
1,4-Dichlorobenzene	* 10	ppb
3,3'-Dichlorobenzidine	* 20	ppb
Diethyl phthalate	* 10	ppb
Dimethyl phthalate	* 10	ppb
Di-N-Butyl phthalate	* 10	ppb
2,4-Dinitrotoluene	* 10	ppb
2,6-Dinitrotoluene	* 10	ppb
Di-N-Octyl phthalate	* 10	ppb

* None found at or above the reporting limit

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1.2.4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area B Subsurface Composite 6" 11039082

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area C Surface Composite 110390CA

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area C Subsurface Composite 6" 110390C2

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* Value given if present at less than

Base Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area D Surface Composite 110390DA

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample: Area D Subsurface Composite 6" 110390D2

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10	ppb
Acenaphthylene	*	10	ppb
Anthracene	*	10	ppb
Benzidine	*	10	ppb
Benzo (a) anthracene	*	10	ppb
Benzo (a) pyrene	*	10	ppb
3,4-Benzo-fluoranthene	*	10	ppb
Benzo (ghi) perylene	*	10	ppb
Benzo (K) fluoranthene	*	10	ppb
Bis (2-chloroethoxy) methane	*	10	ppb
Bis (chloromethyl) ether	*	10	ppb
Bis (2-chloroethyl) ether	*	10	ppb
Bis (2-chloroisopropyl) ether	*	10	ppb
Bis (2-ethyl-hexyl) phthalate	*	10	ppb
4-Bromophenyl phenyl ether	*	10	ppb
Butyl benzyl phthalate	*	10	ppb
2-Chloronaphthalene	*	10	ppb
4-Chlorophenyl phenyl ether	*	10	ppb
Chrysene	*	10	ppb
Dibenzo (a,h) anthracene	*	10	ppb
1,2-Dichlorobenzene	*	10	ppb
1,3-Dichlorobenzene	*	10	ppb
1,4-Dichlorobenzene	*	10	ppb
3,3'-Dichlorobenzidine	*	20	ppb
Diethyl phthalate	*	10	ppb
Dimethyl phthalate	*	10	ppb
Di-N-Butyl phthalate	*	10	ppb
2,4-Dinitrotoluene	*	10	ppb
2,6-Dinitrotoluene	*	10	ppb
Di-N-Octyl phthalate	*	10	ppb

* Value found if present but less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Listed above are the results for your eight soil samples for the base/neutral compounds portion of the semi-volatiles.

If you require further information, please let us know.

Thank you.

Respectfully submitted.

Charles Malone

Charles Malone
Technical Consultant

CTM/vm

Action Testing & Consulting Laboratory, Inc.

Chemists • Bacteriologists • Engineers
Testing • Research • Consulting
Pollution Studies

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November 28, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Locator # 04738
P.O. # 16-1394

Dear Ms. Duvie:

REPORT OF ANALYSIS

Sample: Area A Surface Composite I103700AA

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	30 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	30 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found to present this date

Sample: Area A Subsurface Composite6" 110390AZ

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	30 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found if present less than

Sample: Area B Surface Composite 110390BA

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	30 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found if present less than

Sample: Area B Subsurface Composite 6" 110390BZ

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	12	ppb
2,4-Dichlorophenol	* 5	ppb
2,4-Dimethylphenol	* 5	ppb
4,6-Dinitro-O-cresol	* 30	ppb
2,4-Dinitrophenol	* 30	ppb
2-Nitrophenol	* 5	ppb
4-Nitrophenol	* 5	ppb
P-chloro-M-cresol	* 5	ppb
Pentachlorophenol	* 5	ppb
Phenol	* 5	ppb
2,4,6-Trichlorophenol	* 5	ppb

* None found if present less than

Sample: Area C Surface Composite 110390CA

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	* 5	ppb
2,4-Dichlorophenol	* 5	ppb
2,4-Dimethylphenol	* 5	ppb
4,6-Dinitro-O-cresol	* 30	ppb
2,4-Dinitrophenol	* 30	ppb
2-Nitrophenol	* 5	ppb
4-Nitrophenol	* 5	ppb
P-chloro-M-cresol	* 5	ppb
Pentachlorophenol	* 5	ppb
Phenol	* 5	ppb
2,4,6-Trichlorophenol	* 5	ppb

* None found if present less than

Sample: Area C Subsurface Composite 6" 110390CZ

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found if present less than

Sample: Area D Surface Composite 110390DA

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found if present less than

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November 28, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Laboratory # 04734
P. O. # 16-1394

Dear Ms. Duvie:

Sample ID: Area A Surface Composite 110390AA

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	6	ppb
4,4'-DDD	*	3	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.1	ppb
PCB-1254	*	0.1	ppb
PCB-1221	*	0.1	ppb
PCB-1232	*	0.1	ppb
PCB-1248	*	0.1	ppb
PCB-1260	*	0.1	ppb
PCB-1016	*	0.1	ppb

* None found if present less than

Sample: Area D Subsurface Composite 6" 110390DZ

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found if present less than

Listed above are the results for your eight soil samples for the acid compound portion of the semi-volatiles.

If you require further information, please let us know.

Thank you.

Respectfully submitted,

Charles Malone

Charles Malone
Technical Consultant

CTM/cm

Sample ID: Area A Subsurface Composite 6" 110390AZ

Pesticides/PCB's (Method 608-ECD)

Aldrin	* 2	ppb
BHC-alpha	* 0.01	ppb
BHC-beta	* 5	ppb
BHC-delta	* 0.01	ppb
BHC-gamma	* 0.01	ppb
Chlordane	* 0.5	ppb
4,4'-DDT	* 5	ppb
4,4'-DDE	* 6	ppb
4,4'-DDD	* 3	ppb
Dieldrin	* 2.5	ppb
Endosulfan-alpha	* 0.02	ppb
Endosulfan-beta	* 0.01	ppb
Endosulfan sulfate	* 6	ppb
Endrin	* 0.1	ppb
Endrin aldehyde	* 0.04	ppb
Heptachlor	* 2	ppb
Heptachlor epoxide	* 3	ppb
Toxaphene	* 0.5	ppb
PCB-1242	* 0.1	ppb
PCB-1254	* 0.1	ppb
PCB-1221	* 0.1	ppb
PCB-1232	* 0.1	ppb
PCB-1248	* 0.1	ppb
PCB-1260	* 0.1	ppb
PCB-1016	* 0.1	ppb

* None found if present less than

Sample ID: Area 3 Surface Composite 110390BA

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	5	ppb
4,4'-DDD	*	5	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.5	ppb
PCB-1254	*	0.5	ppb
PCB-1221	*	0.5	ppb
PCB-1232	*	0.5	ppb
PCB-1248	*	0.5	ppb
PCB-1260	*	0.5	ppb
PCB-1016	*	0.5	ppb

* Value found is present less than

Sample ID: Area B Subsurface Composite 6"-110390BZ

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	6	ppb
4,4'-DDD	*	3	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.1	ppb
PCB-1254	*	0.1	ppb
PCB-1221	*	0.1	ppb
PCB-1232	*	0.1	ppb
PCB-1248	*	0.1	ppb
PCB-1260	*	0.1	ppb
PCB-1016	*	0.1	ppb

* None found if present less than

Sample ID: Area C Surface Composite 110390CA

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	6	ppb
4,4'-DDD	*	3	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.1	ppb
PCB-1254	*	0.1	ppb
PCB-1221	*	0.1	ppb
PCB-1232	*	0.1	ppb
PCB-1248	*	0.1	ppb
PCB-1260	*	0.1	ppb
PCB-1016	*	0.1	ppb

* None found if present less than

Sample ID: Area C Subsurface Composite 6" II0390CZ

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	6	ppb
4,4'-DDD	*	3	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.1	ppb
PCB-1254	*	0.1	ppb
PCB-1221	*	0.1	ppb
PCB-1232	*	0.1	ppb
PCB-1248	*	0.1	ppb
PCB-1260	*	0.1	ppb
PCB-1016	*	0.1	ppb

* None found if present less than

Sample ID: Area D Surface Composite 110390DA

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	6	ppb
4,4'-DDD	*	3	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.1	ppb
PCB-1254	*	0.1	ppb
PCB-1221	*	0.1	ppb
PCB-1232	*	0.1	ppb
PCB-1248	*	0.1	ppb
PCB-1260	*	0.1	ppb
PCB-1016	*	0.1	ppb

* None Found or present less than

Sample ID: Area D Subsurface Composite 6" 110390DZ

Pesticides/PCB's (Method 608-ECD)

Aldrin	*	2	ppb
BHC-alpha	*	0.01	ppb
BHC-beta	*	5	ppb
BHC-delta	*	0.01	ppb
BHC-gamma	*	0.01	ppb
Chlordane	*	0.5	ppb
4,4'-DDT	*	5	ppb
4,4'-DDE	*	6	ppb
4,4'-DDD	*	3	ppb
Dieldrin	*	2.5	ppb
Endosulfan-alpha	*	0.02	ppb
Endosulfan-beta	*	0.01	ppb
Endosulfan sulfate	*	6	ppb
Endrin	*	0.1	ppb
Endrin aldehyde	*	0.04	ppb
Heptachlor	*	2	ppb
Heptachlor epoxide	*	3	ppb
Toxaphene	*	0.5	ppb
PCB-1242	*	0.1	ppb
PCB-1254	*	0.1	ppb
PCB-1221	*	0.1	ppb
PCB-1232	*	0.1	ppb
PCB-1248	*	0.1	ppb
PCB-1260	*	0.1	ppb
PCB-1016	*	0.1	ppb

* None found if present less than

Listed above are the results for your eight soil samples for pesticides and PCB's.

If you require further information, please let us know.

Thank you.

Respectfully submitted,

Charles Malone

Charles Malone
Technical Consultant

CTM/vm

Action Testing & Consulting Laboratory, Inc.

Chemists • Bacteriologists • Engineers
Testing • Research • Consulting
Pollution Studies

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November 20, 1990

Weston
100 Atlanta Technology Center
1575 Northside Drive
Atlanta, Ga. 30318

Laboratory # 04738
P. O. # 16-1394

Dear Ms. Durie:

REPORT OF ANALYSIS

Sample ID: T4-2942 11-3-90 C1

VOLATILE COMPOUNDS (Method 624-GC/MS)

	DETECTION LIMIT	RESULTS (PPM)
Acrolein	0.100	ND
Acrylonitrile	0.100	ND
Benzene	0.005	ND
Bromoform (Tribromomethane)	0.005	ND
Carbon Tetrachloride	0.005	ND
Chlorobenzene	0.005	.008
Chlorodi-bromomethane	0.005	ND
Chloroethane	0.005	ND
Chloroform (Trichloromethane)	0.005	ND
Dichlorobromomethane	0.005	ND
Dichlorodifluoromethane	0.005	ND
1,1-Dichloroethane	0.005	ND
1,2-Dichloroethane	0.005	ND
1,1-Dichloroethylene	0.005	ND
1,2-Dichloropropane	0.005	ND
1,2-Dichloropropylene	0.005	ND
Ethylbenzene	0.005	ND
Methyl bromide (Bromomethane)	0.005	ND
Methyl Chloride (Chloromethane)	0.005	ND
Methylene Chloride (Dichloromethane)	0.005	ND
1,1,2,2-Tetrachloroethane	0.005	ND
Tetrachloroethylene	0.005	ND
Toluene	0.005	.016
1,2-Trans-Dichloroethylene	0.005	ND
1,1,1-Trichloroethane	0.005	ND
1,1,2-Trichloroethane	0.005	ND
Trichloroethylene	0.005	ND
Trichlorofluoromethane	0.005	ND
Vinyl chloride (Chloroethylene)	0.005	ND
Xylene	0.005	.016

REPORT OF ANALYSIS

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2.4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

* None found if present less than

REPORT OF ANALYSIS

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

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* None found if present less than

Sample ID: T4-2945 11-3-90 Z1

VOLATILE COMPOUNDS (Method 624-GC/MS)

	DETECTION LIMIT	RESULTS (PPM)
Acrolein	0.100	ND
Acrylonitrile	0.100	ND
Benzene	0.005	ND
Bromoform (Tribromomethane)	0.005	ND
Carbon Tetrachloride	0.005	ND
Chlorobenzene	0.005	ND
Chlorodi-bromomethane	0.005	ND
Chloroethane	0.005	ND
Chloroform (Trichloromethane)	0.005	.018
Dichlorobromomethane	0.005	ND
Dichlorodifluoromethane	0.005	ND
1,1-Dichloroethane	0.005	ND
1,2-Dichloroethane	0.005	ND
1,1-Dichloroethylene	0.005	ND
1,2-Dichloropropane	0.005	ND
1,2-Dichloropropylene	0.005	ND
Ethylbenzene	0.005	ND
Methyl bromide (Bromomethane)	0.005	ND
Methyl Chloride (Chloromethane)	0.005	ND
Methylene Chloride (Dichloromethane)	0.005	.010
1.1.2,2-Tetrachloroethane	0.005	ND
Tetrachloroethylene	0.005	ND
Toluene	0.005	.008
1,2-Trans-Dichloroethylene	0.005	ND
1,1,1-Trichloroethane	0.005	ND
1,1,2-Trichloroethane	0.005	ND
Trichloroethylene	0.005	ND
Trichlorofluoromethane	0.005	ND
Vinyl chloride (Chloroethylene)	0.005	ND
Xylenes	0.005	.028

REPORT OF ANALYSIS

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	* 10	ppb
Acenaphthylene	* 10	ppb
Anthracene	* 10	ppb
Benzidine	* 10	ppb
Benzo (a) anthracene	* 10	ppb
Benzo (a) pyrene	* 10	ppb
3,4-Benzo-fluoranthene	* 10	ppb
Benzo (ghi) perylene	* 10	ppb
Benzo (K) fluoranthene	* 10	ppb
Bis (2-chloroethoxy) methane	* 10	ppb
Bis (chloromethyl) ether	* 10	ppb
Bis (2-chloroethyl) ether	* 10	ppb
Bis (2-chloroisopropyl) ether	* 10	ppb
Bis (2-ethyl-hexyl) phthalate	* 10	ppb
4-Bromophenyl phenyl ether	* 10	ppb
Butyl benzyl phthalate	* 10	ppb
2-Chloronaphthalene	* 10	ppb
4-Chlorophenyl phenyl ether	* 10	ppb
Chrysene	* 10	ppb
Dibenzo (a,h) anthracene	* 10	ppb
1,2-Dichlorobenzene	* 10	ppb
1,3-Dichlorobenzene	* 10	ppb
1,4-Dichlorobenzene	* 10	ppb
3,3'-Dichlorobenzidine	* 20	ppb
Diethyl phthalate	* 30	ppb
Dimethyl phthalate	* 10	ppb
Di-N-Butyl phthalate	* 10	ppb
2,4-Dinitrotoluene	* 10	ppb
2,6-Dinitrotoluene	* 10	ppb
Di-N-Octyl phthalate	* 10	ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100	ppb
Fluoranthene	*	10	ppb
Fluorene	*	10	ppb
Hexachlorobenzene	*	10	ppb
Hexachlorobutadiene	*	10	ppb
Hexachlorocyclopentadiene	*	20	ppb
Hexachloroethane	*	20	ppb
Indeno (1,2,3,-cd) pyrene	*	10	ppb
Isophorone	*	10	ppb
Naphthalene	*	10	ppb
Nitrobenzene	*	10	ppb
N-Nitrosodi-methylamine	*	10	ppb
N-Nitrosodi-N-propylamine	*	10	ppb
N-Nitrosodi-phenylamine	*	10	ppb
Phenanthrene	*	10	ppb
Pyrene	*	10	ppb
1,2,4-Trichlorobenzene	*	10	ppb

* None found if present less than

REPORT OF ANALYSIS

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

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* None found if present less than

Sample ID: T4-2943 11-3-90 A1

VOLATILE COMPOUNDS

	DETECTION LIMIT	RESULTS (PPM)
Acrolein	0.100	ND
Acrylonitrile	0.100	ND
Benzene	0.005	ND
Bromoform (Tribromomethane)	0.005	ND
Carbon Tetrachloride	0.005	ND
Chlorobenzene	0.005	ND
Chlorodi-bromomethane	0.005	ND
Chloroethane	0.005	ND
Chloroform (Trichloromethane)	0.005	ND
Dichlorobromomethane	0.005	ND
Dichlorodifluoromethane	0.005	ND
1,1-Dichloroethane	0.005	ND
1,2-Dichloroethane	0.005	ND
1,1-Dichloroethylene	0.005	ND
1,2-Dichloropropane	0.005	ND
1,2-Dichloropropylene	0.005	ND
Ethylbenzene	0.005	ND
Methyl bromide (Bromomethane)	0.005	ND
Methyl Chloride (Chloromethane)	0.005	ND
Methylene Chloride (Dichloromethane)	0.005	.006
1,1,2,2-Tetrachloroethane	0.005	ND
Tetrachloroethylene	0.005	ND
Toluene	0.005	.012
1,2-Trans-Dichloroethylene	0.005	ND
1,1,1-Trichloroethane	0.005	ND
1,1,2-Trichloroethane	0.005	ND
Trichloroethylene	0.005	ND
Trichlorofluoromethane	0.005	ND
Vinyl chloride (Chloroethylene)	0.005	ND
Xylenes	0.005	.011

REPORT OF ANALYSIS

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	10 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3.-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample ID: T4-2944 11-3-90 B1

VOLATILE COMPOUNDS (Method 624-GC/MS)

	DETECTION LIMIT	RESULTS (PPM)
Acrolein	0.100	ND
Acrylonitrile	0.100	ND
Benzene	0.005	.007
Bromoform (Tribromomethane)	0.005	ND
Carbon Tetrachloride	0.005	ND
Chlorobenzene	0.005	ND
Chlorodi-bromomethane	0.005	ND
Chloroethane	0.005	ND
Chloroform (Trichloromethane)	0.005	ND
Dichlorobromomethane	0.005	ND
Dichlorodifluoromethane	0.005	ND
1,1-Dichloroethane	0.005	ND
1,2-Dichloroethane	0.005	ND
1,1-Dichloroethylene	0.005	ND
1,2-Dichloropropane	0.005	ND
1,2-Dichloropropylene	0.005	ND
Ethylbenzene	0.005	ND
Methyl bromide (Bromomethane)	0.005	ND
Methyl Chloride (Chloromethane)	0.005	ND
Methylene Chloride (Dichloromethane)	0.005	ND
1,1,2,2-Tetrachloroethane	0.005	ND
Tetrachloroethylene	0.005	ND
Toluene	0.005	ND
1,2-Trans-Dichloroethylene	0.005	ND
1,1,1-Trichloroethane	0.005	ND
1,1,2-Trichloroethane	0.005	ND
Trichloroethylene	0.005	ND
Trichlorofluoromethane	0.005	ND
Vinyl chloride (Chloroethylene)	0.005	ND
Xylenes	0.005	.022

REPORT OF ANALYSIS

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5	ppb
2,4-Dichlorophenol	*	5	ppb
2,4-Dimethylphenol	*	5	ppb
4,6-Dinitro-O-cresol	*	30	ppb
2,4-Dinitrophenol	*	50	ppb
2-Nitrophenol	*	5	ppb
4-Nitrophenol	*	5	ppb
P-chloro-M-cresol	*	5	ppb
Pentachlorophenol	*	5	ppb
Phenol	*	5	ppb
2,4,6-Trichlorophenol	*	5	ppb

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* None found if present less than

REPORT OF ANALYSIS

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10 ppb
Acenaphthylene	*	10 ppb
Anthracene	*	10 ppb
Benzidine	*	10 ppb
Benzo (a) anthracene	*	10 ppb
Benzo (a) pyrene	*	10 ppb
3,4-Benzo-fluoranthene	*	10 ppb
Benzo (ghi) perylene	*	10 ppb
Benzo (K) fluoranthene	*	10 ppb
Bis (2-chloroethoxy) methane	*	10 ppb
Bis (chloromethyl) ether	*	10 ppb
Bis (2-chloroethyl) ether	*	10 ppb
Bis (2-chloroisopropyl) ether	*	10 ppb
Bis (2-ethyl-hexyl) phthalate	*	10 ppb
4-Bromophenyl phenyl ether	*	10 ppb
Butyl benzyl phthalate	*	10 ppb
2-Chloronaphthalene	*	10 ppb
4-Chlorophenyl phenyl ether	*	10 ppb
Chrysene	*	10 ppb
Dibenzo (a,h) anthracene	*	10 ppb
1,2-Dichlorobenzene	*	10 ppb
1,3-Dichlorobenzene	*	10 ppb
1,4-Dichlorobenzene	*	10 ppb
3,3'-Dichlorobenzidine	*	20 ppb
Diethyl phthalate	*	10 ppb
Dimethyl phthalate	*	10 ppb
Di-N-Butyl phthalate	*	10 ppb
2,4-Dinitrotoluene	*	10 ppb
2,6-Dinitrotoluene	*	10 ppb
Di-N-Octyl phthalate	*	10 ppb

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	20 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	20 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

Sample ID: T4-2945 11-3-90 Z1

VOLATILE COMPOUNDS (Method 624-GC/MS)

	DETECTION LIMIT	RESULTS (PPM)
Acrolein	0.100	ND
Acrylonitrile	0.100	ND
Benzene	0.005	ND
Bromoform (Tribromomethane)	0.005	ND
Carbon Tetrachloride	0.005	ND
Chlorobenzene	0.005	ND
Chlorodi-bromomethane	0.005	ND
Chloroethane	0.005	ND
Chloroform (Trichloromethane)	0.005	.018
Dichlorobromomethane	0.005	ND
Dichlorodifluoromethane	0.005	ND
1,1-Dichloroethane	0.005	ND
1,2-Dichloroethane	0.005	ND
1,1-Dichloroethylene	0.005	ND
1,2-Dichloropropane	0.005	ND
1,2-Dichloropropylene	0.005	ND
Ethylbenzene	0.005	ND
Methyl bromide (Bromomethane)	0.005	ND
Methyl Chloride (Chloromethane)	0.005	ND
Methylene Chloride (Dichloromethane)	0.005	.010
1,1,2,2-Tetrachloroethane	0.005	ND
Tetrachloroethylene	0.005	ND
Toluene	0.005	.008
1,2-Trans-Dichloroethylene	0.005	ND
1,1,1-Trichloroethane	0.005	ND
1,1,2-Trichloroethane	0.005	ND
Trichloroethylene	0.005	ND
Trichlorofluoromethane	0.005	ND
Vinyl chloride (Chloroethylene)	0.005	ND
Xylenes	0.005	.028

REPORT OF ANALYSIS

Acid Compounds (Method 604-GC/FID)

2-Chlorophenol	*	5 ppb
2,4-Dichlorophenol	*	5 ppb
2,4-Dimethylphenol	*	5 ppb
4,6-Dinitro-O-cresol	*	30 ppb
2,4-Dinitrophenol	*	50 ppb
2-Nitrophenol	*	5 ppb
4-Nitrophenol	*	5 ppb
P-chloro-M-cresol	*	5 ppb
Pentachlorophenol	*	5 ppb
Phenol	*	5 ppb
2,4,6-Trichlorophenol	*	5 ppb

---

* None found if present less than

Base/Neutral Compounds (Method 625-GC/MS)

1,2-Diphenylhydrazine	*	100 ppb
Fluoranthene	*	10 ppb
Fluorene	*	10 ppb
Hexachlorobenzene	*	10 ppb
Hexachlorobutadiene	*	10 ppb
Hexachlorocyclopentadiene	*	20 ppb
Hexachloroethane	*	10 ppb
Indeno (1,2,3,-cd) pyrene	*	10 ppb
Isophorone	*	10 ppb
Naphthalene	*	10 ppb
Nitrobenzene	*	10 ppb
N-Nitrosodi-methylamine	*	10 ppb
N-Nitrosodi-N-propylamine	*	10 ppb
N-Nitrosodi-phenylamine	*	10 ppb
Phenanthrene	*	10 ppb
Pyrene	*	10 ppb
1,2,4-Trichlorobenzene	*	10 ppb

* None found if present less than

REPORT OF ANALYSIS

Base/Neutral Compounds (Method 625-GC/MS)

Acenaphthene	*	10	ppb
Acenaphthylene	*	10	ppb
Anthracene	*	10	ppb
Benzidine	*	10	ppb
Benzo (a) anthracene	*	10	ppb
Benzo (a) pyrene	*	10	ppb
3,4-Benzo-fluoranthene	*	10	ppb
Benzo (ghi) perylene	*	10	ppb
Benzo (K) fluoranthene	*	10	ppb
Bis (2-chloroethoxy) methane	*	10	ppb
Bis (chloromethyl) ether	*	10	ppb
Bis (2-chloroethyl) ether	*	10	ppb
Bis (2-chloroisopropyl) ether	*	10	ppb
Bis (2-ethyl-hexyl) phthalate	*	10	ppb
4-Bromophenyl phenyl ether	*	10	ppb
Butyl benzyl phthalate	*	10	ppb
2-Chloronaphthalene	*	10	ppb
4-Chlorophenyl phenyl ether	*	10	ppb
Chrysene	*	10	ppb
Dibenzo (a,h) anthracene	*	10	ppb
1,2-Dichlorobenzene	*	10	ppb
1,3-Dichlorobenzene	*	10	ppb
1,4-Dichlorobenzene	*	10	ppb
3,3'-Dichlorobenzidine	*	20	ppb
Diethyl phthalate	*	10	ppb
Dimethyl phthalate	*	10	ppb
Di-N-Butyl phthalate	*	10	ppb
2,4-Dinitrotoluene	*	10	ppb
2,6-Dinitrotoluene	*	10	ppb
Di-N-Octyl phthalate	*	10	ppb

* None found if present less than

Listed above are the results for your four air samples for volatiles and semi-volatiles.

If you require further information, please let us know.

Thank you.

Respectfully submitted,

Charles Malone

Charles Malone
Technical Consultant

CTM/vm

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET
ATLANTA, GEORGIA 30365

OCT 0 2 1990

4WD-WPB

Mr. James J. Bedford
First Federal Savings Bank
255 Grant Street, SE
P.O. Box 1429
Decatur, Alabama 35602-1429

Re: Letter dated 8/31/90 - Aquadome Landfill

Dear Mr. Bedford:

In your letter you requested a written confirmation/explanation of the "Wastelan PreRemedial Report 20" and the status of the Aquadome Landfill Site.

The "Report 20" is a list generated by EPA as a working guide of sites which are routinely added to CERCLIS. CERCLIS is a computerized database in which the Agency stores management information on all sites evaluated under the Superfund program. The enclosed document will give you a more detail understanding of the database system.

In 1986 actions were taken to stabilize The Aquadome Landfill Site by the Environmental Protection Agency. Additional samples will be taken to determine if any site changes have occurred or if additional actions are warranted.

If you have any questions, I can be reached at (404) 347-5065.

Sincerely,

Gena D. Townsend
Alabama Project Officer

Enclosure

4WD-SAS	4WD-SAS	4WD-SAS
Towns	Villamarzo	Hanke

GDT:aa:DOC:Bedford:10/01/90:5065

YELLOW

FIRST FEDERAL SAVINGS BANK

255 Grant St., S.E., P.O. Box 1429
Decatur, Alabama 35602-1429
(205) 353-2530

August 31, 1990

Ms. Jena Townsend
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Dear Ms. Townsend:

I talked to Al Hanke today concerning Superfund sites as they relate to lending concerns. After saying that sites listed in the "Wasteland Preremedial Report 20" did meet our definition of a Superfund site, he indicated you were the Alabama Project Officer.

I am requesting that you send me written confirmation of what Mr. Hanke told me; specifically, that those sites listed on the above-mentioned report do meet the following definition which we received from our supervisory federal agency concerning a Superfund toxic waste site:

> Sites identified by the Environmental Protection Agency (EPA) from which hazardous substance releases occurred or from which releases could occur (e.g., abandoned hazardous waste dumps and chemical spills.) The EPA is authorized to undertake removal or remedial actions of such sites.

In addition, could you tell us what the status is with EPA of a particular site, the Aquadome Landfill (reference #00410, EPA #ALD9800842512).

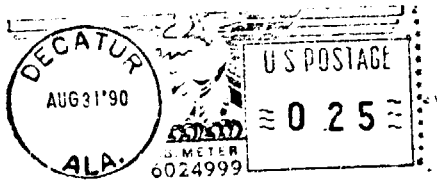
Thank you for your time and help.

Sincerely,

James J. Bedford
Underwriter

JJB/smh

FIRST FEDERAL SAVINGS BANK
255 Grant St. S.E./P.O. Box 1429
Decatur, Alabama 35602-1429



Ms. Jena Townsend
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, GA 30365

Hanke

SISB/SAS

RECEIVED
JUL 21 1989
EPA - REGION IV
ATLANTA, GA.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUL 19 1989

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

MEMORANDUM

SUBJECT: Response to Requests to Delete Sites from CERCLIS

FROM: Larry Reed, Acting Director
Hazardous Site Evaluation Division

TO: Superfund Branch Chiefs

The purpose of this memo is to transmit a recent Congressional response written by my staff and signed by John Cannon on an issue that we understand is becoming quite prevalent in the Regions -- the request to have site names, location, and other data removed from CERCLIS. The response notes that inclusion of a site in CERCLIS carries no legal or regulatory consequence, and that the assumption that there is substantial, or any, hazard associated with CERLCIS listing is largely inaccurate. The response also explains the "No Further Remedial Action Planned (NFRAP)" designation used in CERCLIS.

You will note that the last paragraph of this letter strongly urges mortgage institutions to identify the status of sites in the pre-remedial evaluation process before making loan decisions. We expect that many banks will act on this advise. In our Pre-Remedial Program Objectives Document (OSWER Directive 9345.0-02), we stated as one of our primary FY'89 objectives the entering of "...all pre-remedial decisions/ priority recommendations at each step of the evaluation process...into CERCLIS as rapidly as possible to facilitate overall program planning and to expedite response to Congressional and public inquiries." I believe that the emerging situation with the mortgage industry reemphasizes the need to carry out this directive.

The language in this Congressional response should help with your own responses to requests to delete data from CERCLIS. Please contact Penelope Hansen (FTS-382-6357) of my staff if you have any questions about the Agency's present policy on this issue.

Attachment

cc: Henry Longest
Walt Kovalick
Clem Rastatter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUN 9 1989

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

Honorable Richard G. Lugar
Honorable Dan Coats
United States Senators
46 East Ohio Street
Room 447
Indianapolis, Indiana 46204

Attn: Mr. Lane Ralph

Dear Senators Lugar and Coats:

The Environmental Protection Agency (EPA) appreciates the opportunity afforded to us by your April 25, 1989, letter on behalf of your constituent, Mr. James Keith, to clarify its position on the appropriate use and interpretation of the information contained in the Comprehensive Environmental Response and Compensation Liability Information System (CERCLIS). The Agency agrees with much that Mr. Keith has stated in his thoughtful letter and will attempt to clarify those areas in which we are not in agreement.

CERCLIS is a computerized database in which the Agency stores management information on all sites evaluated under the Superfund program. Sites are identified for placement in CERCLIS through a wide variety of mechanisms, including such diverse sources as formal notification requirements and citizen telephone calls. Sites are not removed from the database after completion of evaluations in order to document that these evaluations took place and preclude the possibility that they be needlessly repeated. Inclusion of a specific site or area in the CERCLIS database carries no legal or regulatory consequence.

The assumption that substantial, or any, risk to public health and the environment is associated with a site contained in CERCLIS is largely inaccurate. The percentage of sites going on to the National Priorities List, which is the Agency's list of sites believed to pose environmental threats significant enough to warrant remedial action under Superfund, is now between 5% and 10% of those assessed.

The extent of the misinterpretation of what CERCLIS is and is not is found in the following statistics:

- Ten to 30% of all sites on CERCLIS, depending on the Region, have no waste, hazardous or non-hazardous, present at all.

- Another small percentage have only eyesore-type waste such as tires, old refrigerators and other types of trash.

- A very substantial proportion of the sites in CERCLIS fit the description of your constituent's situation, i.e., there is something there, but it is not of sufficient threat to involve the Federal government in cleanup activities. These sites are usually dealt with by State and/or local government, or by private owners.

- A full 50% of all sites are eliminated from further Federal action at the first step of the process, the Preliminary Assessment.

Sites that the government decides do not warrant moving further in the process are given a "No Further Remedial Action Planned (NFRAP)" designation in CERCLIS. This means that no additional Federal steps will be taken at the site unless information arrives from some source indicating that this decision was incorrect. States are notified of all NFRAP decisions in order to inform them that the Federal government will proceed no further and to allow them the opportunity to share any additional data they may have that would change the decision. A small percentage of NFRAP sites are returned to active consideration through this mechanism each year.

It is particularly important to note that the Agency's NFRAP decision does not mean that there is no hazard associated with a given site; it means only that based on available information the location is not judged to be a potential Superfund site. The Superfund Amendments and Reauthorization Act requires the Agency to develop a screening tool, the Hazard Ranking System, to determine which of the 31,000 sites nominated for Superfund to date are of enough concern to warrant expenditure of the Fund for remedial action. (Removal actions are taken throughout the process when threats need to be addressed quickly.) Sites identified through this scoring system are, by design, the most serious hazardous waste release sites in the country. As you know, there are now some 1200 such sites, proposed and final.

I believe that the fundamental problem faced by your constituent and many other property owners is found in the statement, "The sale of the property did not take place because banks would not loan money for the purchase of a property on the CERCLIS." Mortgage institutions have at least some

responsibility for adequately investigating properties prior to making such decisions. The EPA Regional Offices have made major improvements in the timely entering of NFRAP decisions into CERCLIS over the last two years. We do not understand the basis on which sites that have been so designated would be automatically disqualified from receiving loans by lending institutions. A CERCLIS site with a NFRAP designation may have no environmental problems associated with it at all, or as in your constituent's case, may be well along in remediating what minor problems do exist. Refusing loans to all sites on CERCLIS may be an easy way for banks to make decisions, but we do not believe that the database system created by EPA compels or suggests such a result.

Sincerely,

Jonathan Z. Cannon
Acting Assistant Administrator

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service
Agency for Toxic Substances
and Disease Registry

Memorandum

Date October 21, 1987

From Sr. Regional Representative

Subject Health Consultation: Aquadome Site;
Decatur, Alabama

To Ray Strickland, OSC
EPA ERRB

thru Jan Rogers, Chief
EPA ERRB Site Control Unit

As requested, the Site Investigation Report, ESD Project No. 87-069, dated August 4, 1987, has been reviewed for its public health threat implications. This review is in followup to an August 5, 1986 ATSDR review of earlier sampling data from this site.

Background

A total of fifteen (15) environmental samples were collected; four (4) from groundwater monitoring systems and eleven (11) from surface water and sediment samples from the drainage system (ditch) flowing through the site. These samples were analized for the presence of HSL organic and inorganic compounds. All reported values were qualified as estimates and/or presumptive evidence. As such, a comprehensive, quantified "picture" for the identified compounds is not presented.

Discussion

The results of the analyses indicate the presumptive presence of a number of compounds. However, all tentatively identified compounds were at levels below which there is reason for acute public health threat concern. This sampling investigation did identify a number of additional organics in upstream, onsite and downstream samples that were not reported in the 2/26/86 NUS Site Investigation Report.

Conclusions & Recommendations

The results of the 1987 ESD sampling provides additional information and evidence that the drainage ditch area of the site continues to represent a nuisance to area residents and a potential, future public health threat unless remediation efforts are taken to reduce the presence and accessibility to humans, especially children, to onsite surface contaminants. The conclusions and recommendations offerred in our August 5, 1986 review remain valid, with the exception of the need to continue to monitor onsite contaminants through additional onsite sampling.

We again offer the following recommendations for this site that will prevent direct contact with leachate, soil and stream sediments by childrem who may be playing in and around the drainage ditch area:

1. Consider restricting access to the drainage ditch area until efforts are taken to clean up or render surface contaminants inaccessible to human contact.

2. Continue gas monitoring in the Brookhaven Middle School.

3. Evaluate the significance of the potential for off site migration of contaminants via soils and sediments to adversely affect offsite human receptors, including flora, fauna and aquatic organisms in the local environment.

If we can assist further, please let me know.

Chuck

Chuck Pietrosewicz

cc: file
ATSDR/OEA
ATSDR/OHA

JAN 05 1986

SUPERFUND RECORD OF COMMUNICATIONS

SITE: Aquadome Elem. School
COUNTY: Morgan STATE: AL

CHECK APPROPRIATE BLOCK(S)

☐ INCOMING PHONE CALL ☐ CONFERENCE PHONE CALL XX☐ VISIT
☐ OUTGOING PHONE CALL ☐ MEETING/ CONFERENCE ☐ ASSIGNMENT

XX EMERGENCY/IMMEDIATE
_____ REMEDIAL

DATE	TIME	PHONE NO. (Include Area Code)
12/24/87	2-3:30pm	

XX☒ HEALTH CONSULTATION
XX☒ SITE VISIT
XX☒ REVIEW DATA
☐ PUBLIC MEETING
☐ WORKER HEALTH & SAFETY
☐ OTHER: (Specify) _____

TO: (Name, Agency, Firm, and Address)

The Record

ROUTING

file
ATSDR/OEA
ATSDR/OHA-ERB
EPA/H'cock&S'land

FROM: (Name, Agency, Firm, and Address)

Chuck Pietrosewicz

SUMMARY

This day, visited & toured site while in area on personal leave. Toured site, took pix of school grounds & areas previously sampled on 2 occasions by EPA/state. Visit due to recent discussions w/OSC's about earlier ATS recommendations in formal health consult by ATS/Lybarger & of OSC concerns for implementation of reco's & of possible need/desire for additional surface sampling of school grounds, exclusive of ditch areas.

Actions at site included driving perimeter of multi-acre school complex; pix of entire ditch area sampled previously; walking ditch area & entire ball field complexes & other open areas; observation of EPA or state monitoring wells.

Observations:
- o site bordered on all sides by apt's. & single family homes; entire field area open, no access restrictions to fields or ditch;
- o bottom of ditch concrete lined (app. 4'depth); slopes not lined but heavily grassed & weeded; no wastes seen protruding anywhere; soil not discolored; no odors noticed; broken glass was seen thruout slopes; no leachate from slope or other areas seen; no stressed vegetation seen anywhere;
- o entire ditch, slope & adjacent areas healthy w/vegetation & weeds, just a few eroded areas seen (see pix); one area of ditch traversed by bikes (see pix);

ACTION REQUIRED, INFORMATION OR MATERIALS PROVIDED, ETC. ENCLOSURE(S) INCLUDED: _____ YES _____ NO

- o surface areas around ball fields fully grassed & appears healthy, few eroded areas seen;
- o water in ditch moving actively; minnows & aquatic vegetation abounds & appears healthy;

Conclusions:
- o addit. sampling of level ball field areas appears reasonable since no data except for ditch area; need to discuss same w/OSC's;
- o have ATSDR/ERB assess additional data when available;
- o also have ATSDR/ERB completely re-assess previous comments & reco's, incl. review of pix. Previous comments/reco's per ditch area by ATSDR appear unnecessarily conservative.

TYPED NAME & SIGNATURE	DATE
CP	12/31/87

CDC 80.9 (Formerly 40.4)
REV. 6/84

AUG 26 RECD

SUPERFUND RECORD OF COMMUNICATIONS

SITE: Aquadome

COUNTY: Morgan STATE: AL

CHECK APPROPRIATE BLOCK(S)

☐ INCOMING PHONE CALL ☐ CONFERENCE PHONE CALL ☐ VISIT
☐ OUTGOING PHONE CALL ☐ MEETING/ CONFERENCE ☐ ASSIGNMENT

XX EMERGENCY/IMMEDIATE
____ REMEDIAL

DATE	TIME	PHONE NO. *(Include Area Code)*
8/25/86		

TO: *(Name, Agency, Firm, and Address)*
Ray Strickland, OSC
thru
Chuck McPherson, EOS

FROM: *(Name, Agency, Firm, and Address)*
Chuck Pietrosewicz

ROUTING

XX ☐ HEALTH CONSULTATION
☐ SITE VISIT
☐ REVIEW DATA
☐ PUBLIC MEETING
☐ WORKER HEALTH & SAFETY
XX ☐ OTHER: *(Specify)* transmittal of ATSDR site review to EPA

SUMMARY

Attached is a copy of the ATSDR/s review of the Site Sampling Investigation of the above site. I requested this review be done after working with Jan Rogers & Stoney on this site in March of this year.

In that our review contains recommendations regarding addressing a potential public health problem, I suggest you consider these recommendations in any sampling or other action being considered for this site.

If you would like to discuss any of our comments, please let me know.

cc: file
ADPH, Dr. Barganier
DHHS/PHS-Atlanta

ACTION REQUIRED, INFORMATION OR MATERIALS PROVIDED, ETC. ENCLOSURE(S) INCLUDED: XX YES ____ NO

TYPED NAME & SIGNATURE
Chuck Pietrosewicz

DATE
8/25/86

CDC 80.9 (Formerly 40.4)
REV. 6/84

DEPARTMENT OF HEALTH & HUMAN SERVICES

AUG 26 RECD

Public Health Service
Agency for Toxic Substances
and Disease Registry

Memorandum

Date AUG 5 1986

From Acting Director
Office of Health Assessment

Subject Aquadome, SI-86-067
Decatur, Alabama

To Mr. Chuck Pietrosewicz
Public Health Advisor
EPA Region IV

STATEMENT OF THE PROBLEM

ATSDR has been requested by the Environmental Protection Agency (EPA) to review the environmental sampling data and comment on the following questions:

1. Is additional on-site and off-site sampling required?

2. Is there a potential health threat to area residents frequenting this area?

BACKGROUND

The site, a former municipal landfill, is located between 5th Avenue S.W. and 8th Street S.W. in Decatur, Morgan County, Alabama. The site encompasses 40 acres and was active for about 20 years before the landfill was closed in 1964. Construction of a middle school on this site began in 1969. The site consists of several athletic fields, a recreation building, the Aquadome Pool and the Brookhaven Middle School.

Gas monitoring systems installed in the school and recreation building have detected methane gas. Eight percent Lower Explosive Limit (LEL) was detected outdoors and 2 percent LEL was detected inside the Brookhaven Middle School building. Four monitoring wells were installed in 1981 and are periodically sampled by the Alabama State Department of Health.

Leachate from the landfill drains into a ditch running west to east across the center of the property. The ditch drains into Dry Branch Creek, a

tributary of the Tennessee River. Erosion has exposed rubbish and discolored soil.

DOCUMENTS REVIEWED

1. Memorandum from Mr. Pietrosewicz, Public Health Advisor, EPA Region IV to Mr. Buynoski, Chief of Field Operations, ATSDR, re: Request for review of additional sampling and data needs for Aquadome Site, Morgan County, Alabama.

2. Draft, Site Sampling Investigation Aquadome Site, Morgan County, Decatur, Alabama, TDD no. F4-8504-02, Contract No. 68-01-6699, NUS Corporation, February 26, 1986.

SAMPLING PROCEDURE

A site assessment and sampling regimen was performed during the week of April 22, 1985. Seventeen samples (7 surface water, 4 groundwater, and six soil/sediment) were taken and analyzed for inorganic metals and volatile organic compounds (VOC's). One surface water sample and one sediment sample were collected from the drainage ditch upstream. One surface water sample was collected from a small spring entering on-site via an underground pipe. Three surface water and sediment samples were collected from each of three leachate points along the drainage ditch. Another surface water sample was collected from a small leachate pool just south of the ditch. Four groundwater samples were collected from existing on-site monitoring. One composite soil sample was taken from a auger hole near "the small leachate pool." One surface water sample and one sediment sample were collected from the drainage ditch downstream from the site. In addition air monitoring in the Brookhaven Middle School basement was requested by the city of Decatur, Alabama.

PRINCIPAL CONTAMINANTS

Inorganic compounds (copper, nickel, lead, zinc), toluene, bis(2-ethylhexyl)phthalate, tetrachloroethene, trichloroethene,

trans-1,2-dichloroethene, and estimated values of volatile organic compounds (VOC's), pesticides, PCB's

ENVIRONMENTAL PATHWAYS

Identified environmental pathways consist of contaminated sediments in surface water, the possible leaching of contaminated sediments and soils into the groundwater, and the windborne erosion and transport of contaminated soil.

EXPOSURE PATHWAYS

The probable human exposure pathways are through dermal exposure to contaminated water, soil and sediments, and inhalation of airborne particulates. Another possible exposure pathway is the ingestion of soils, contaminated groundwater and surface water by children. The regular ingestion of contaminated groundwater or surface water is not likely in adults on this site.

DISCUSSION

The Aquadome site although contaminated with the various compounds listed above does not represent a significant public threat to area residents using the facilities. Upstream and downstream surface water samples collected off-site demonstrate contamination of some inorganic compounds and VOC's. The subsurface soil sample collected from a ten foot auger hole demonstrated high concentrations of inorganics and some VOC's. Toluene was a contaminant detected in groundwater along with low concentrations of inorganics. These contaminants are below the concentrations where a probable adverse health effect would occur.

Although the site does not represent a significant public health threat, the drainage ditch and leachate areas on-site may pose an unacceptable risk to children playing in the area. Remedial efforts are necessary to alleviate the risk of direct contact with leachate and sediment materials found on-site. There is insufficient evidence to suggest that site

contaminants are migrating off-site although the possibility exists. Furthurmore, there may be other sources of contamination that are not originating from the Aquadome Site that were not considered in the site assessment. Furthur sampling efforts are required to characterize possible off-site contamination.

Although gas sampled from the 25 vents in the middle school were slightly above background, we feel that periodic monitoring is necessary. This decision is based on the presence of odors from an on-site subsurface soil sample taken during the site assessment and the demonstrated presence of methane gas that was as high as 8 percent of the LEL.

CONCLUSION

The Aquadome Site represents a nuisance to area residents and a potential health problem can occur in the future unless remediation efforts are taken to reduce the presence of on-site surface contaminants. Efforts should be taken to prevent direct contact with surface water, leachate, soil and sediments from children that may be playing in and around the drainage ditch.

RECOMMENDATIONS

1. Consider restricting access to the drainage ditch area until remedial efforts to clean up surface contaminants have been completed.

2. Continue on-site monitoring of contaminants.

3. Continue gas monitoring in the Brookhaven Middle School.

4. Evaluate the potential for off-site migration of contaminants to include groundwater, surface water, soils and sediments.

Jeffrey A. Lybarger, M.D.

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV, ATHENS, GEORGIA

DATE: AUG 24 1987

SUBJECT: Aquadome Site, Decatur, Alabama, Site Inspection Report

FROM: Barbara Hansen Benoy BHB
Hazardous Waste Section

SEP 0 1 RECD

TO: Ray Strickland
Site Control Unit
Emergency Response and Control Section
Superfund Branch

THRU: M. D. Lair, Chief
Hazardous Waste Section
Environmental Compliance Branch
Environmental Services Division

M. D. Lair

Please find the final site inspection report on the Aquadome Site enclosed. This submittal should complete all requirements of ESD Project No. 87-069. Please contact me if you have any questions regarding this submittal.

Attachment

cc: Lair/Mundrick

REGION IV
PEER REVIEW CLEARANCE FORM

99

AUG 04 1987

Route To: Knight, Floyd, Harlow, Barrett Date Transmitted:

Return To: Mary Gregory, Hazardous Waste Section, ECB, ESD Date Returned:

Peer Review Originator (Panel Member): James H. Finger

Project Title: Site Inspection - ESD Project No. 87-069
Aquadome Site
Decatur, Alabama

Project Manager: Barbara H. Benoy

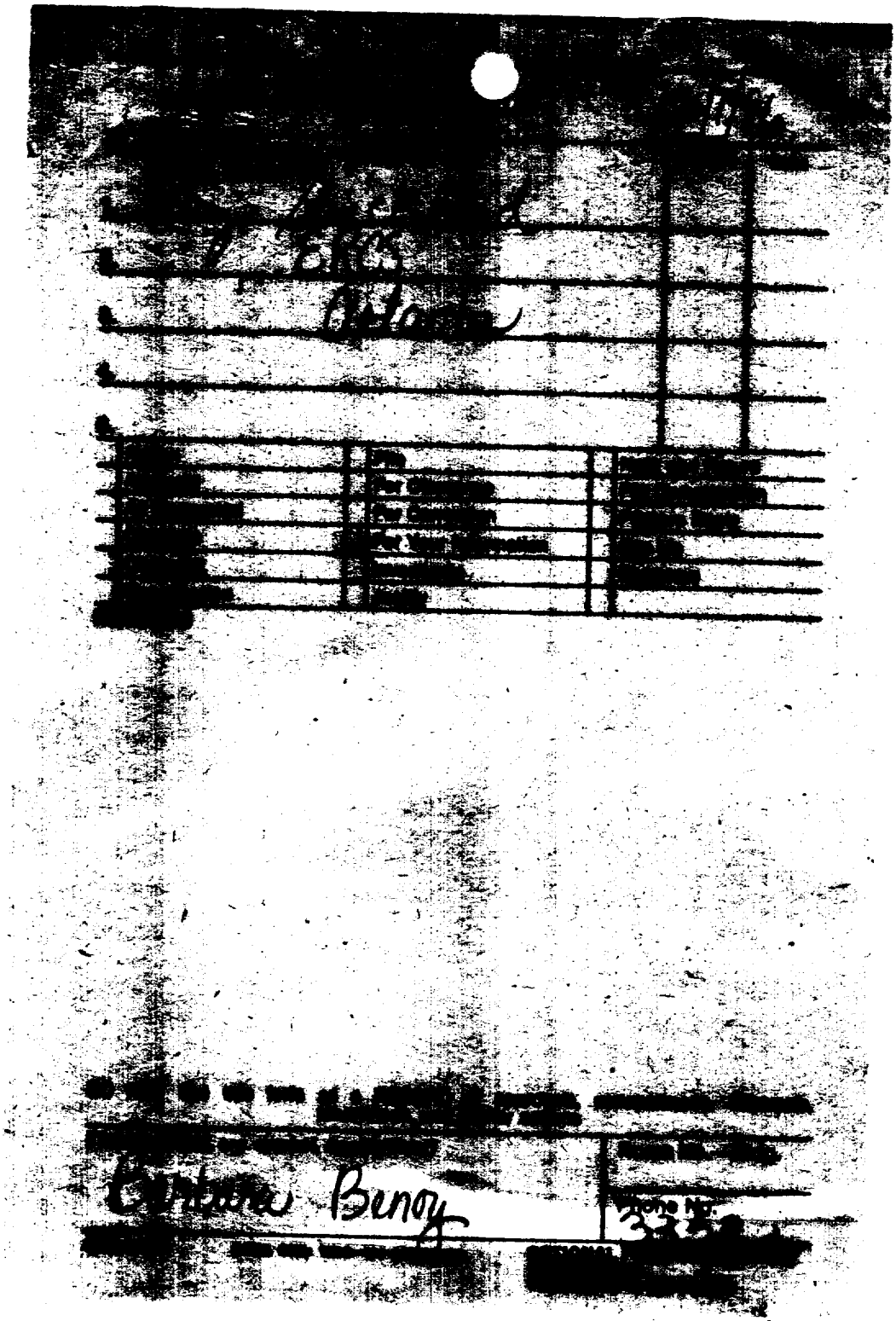
Originator's Instructions: If comments are not received within 10 working days from the transmittal date, it will be assumed that the report is acceptable as written.

Information Copies Sent To: James Sargent

Signature (Panel Member)	Date Received	Date Cleared	Concur	Non-concur

Reviewing Officials	Date Received	Date Cleared	Concur	Non-concur
1.				
2.				
3.				
4.				
5.				

Reviewing Panel Member's Comments:



SITE INSPECTION
AQUADOME SITE
DECATUR, ALABAMA
ESD Project No. 87-069

INTRODUCTION

During the week of December 10, 1986, a site inspection was conducted at the Aquadome Site in Decatur, Alabama. The field crew consisted of Barbara Hansen Benoy, Pat Boyle, and Keith Bellville of the U.S. Environmental Protection Agency (EPA), Environmental Services Division (ESD), Hazardous Waste Section (HWS). The study was requested by Ray Strickland of the Emergency Response Branch, US-EPA Atlanta Regional Office. Ray Strickland accompanied the field crew on site during part of the study.

SITE DESCRIPTION AND HISTORY

The Aquadome Site is located in Decatur, Morgan County, Alabama as shown in Figure 1. The site is approximately 40 acres in size and was operated formerly as a landfill. Brookhaven Middle School and Aquadome Park now occupy the property. Figure 2 displays the current structures on site. Surface drainage and water from a spring flow through a ditch located in the center of the site in an easterly direction into Dry Branch Creek and eventually drain into the Tennessee River. The ditch is partially lined with concrete and is vegetated with grass along the slopes. Erosion has exposed rubbish at places along the ditch; leachate points were observed at four distinct locations either by percolating water or discolored soil. There are many depressed areas throughout the site where settling of the landfill has occurred.

The landfill was owned and operated by the City of Decatur for approximately 20 years. The operation was closed in 1964; there is no indication that a cap was installed. In 1969, Brookhaven Middle School was under construction and a methane gas monitoring system was installed in the school basement. A ground water monitoring system was established with the placement of 4 monitor wells, (locations are shown in Figure 3). The ground water and surface water are tested periodically by the State of Alabama Health Department.

The Region IV Field Investigation Team (NUS Corporation), conducted a site sampling investigation during the week of April 22, 1985. FIT reported high levels of copper, nickel, lead, and zinc throughout the site. Several soil/sediment samples were characterized as containing toluene, bis(2-ethylhexyl)phthalate, dieldrin, and chlordane. Toluene was the only organic compound detected in ground water samples. Di-, tri-, and tetra-chloroethenes were frequently identified in surface water and leachate samples.

OBJECTIVES

The Hazardous Waste Section was requested to resample the surface drainage system and the ground water monitoring system. The primary objective was to determine if a direct contact hazard exists at the school or park since the

Aquadome Site is highly populated at times; a secondary objective was to determine if ground water contamination exists. Ground water is not used for potable water in the vicinity of the site.

SAMPLING LOCATIONS

A total of 15 environmental samples were collected. Four samples were obtained from the existing ground water monitoring system; monitor wells are coded MW-1 through MW-4. The remaining 11 samples were collected along the surface water drainage system that flows through the site. Both upstream and downstream water and sediment samples were obtained; one spring water sample was collected from the eastern portion of the drainage. This spring is routed through a pipe and discharges into the drainage ditch. The origin of the spring is not known. Four leachate points were identified; two were sampled for water and sediment, and two were sampled for sediment only. Sample codes and descriptions are provided in Table 1 and are depicted on Figure 3.

SUMMARY OF ANALYTICAL RESULTS

Much of the contamination present was detected in sediment or surface water samples, including the spring sample, upstream from the site. This is especially true of pesticides. Though some of the organic contamination was detected only in sediment samples collected from leachate points, the majority of the surface water (and corresponding sediment) contamination cannot be attributed solely to the Aquadome Site. However, there is also evidence that high levels of copper have leached from the fill, as the metals data indicate. Evidence of contamination of the drainage ditch exists, both for water and sediment. The drainage ditch is presently readily accessible.

Analyses of the ground water samples indicated low levels of organic contamination; all concentration values were qualified as estimates and/or presumptive evidence of material. Low levels of chromium and nickel were identified in ground water; trace levels of cyanide were also detected. These above mentioned inorganic compounds were either not detected elsewhere at the site, or did not appear in significant concentrations to establish patterns of contamination.

ANALYTICAL RESULTS

Ground Water Samples

Four onsite monitor wells were sampled, the locations of which are shown on Figure 3. The analytical data generated on ground water samples are provided in Tables 2 and 3. The results of the inorganic analysis identified the presence of eleven metals in all 4 ground water samples. These metals and the ranges of concentrations (in ug/l) are tabulated below.

Barium	130	-	410
Strontium	61	-	690
Titanium	51	-	240
Vanadium	12	-	52
Zinc	25	-	440
Aluminum	5300	-	26,000
Manganese	1200	-	6400
Calcium	22,000	-	220,000
Magnesium	6800	-	15,000
Iron	20,000	-	120,000

Chromium and yttrium were detected in 3 of the monitor wells, MW-1, MW-2, and MW-3; the concentrations ranged from 10 to 42 ug/l and 13 to 43 ug/l, respectively.

Cobalt was detected in monitor well MW-2; the concentration was estimated at 40 ug/l. Nickel was identified in MW-3 at a concentration of 22 ug/l. Cyanide was detected in one ground water sample, MW-1, at a concentration of 300 ug/l. For consistency, all inorganic data concentrations for water samples are presented in ug/l in the text of this report; laboratory report sheets and tables present some concentrations in mg/l.

Vinyl chloride, and cis- and trans-1,2-dichloroethene were detected in well MW4. Chlorobenzene was detected in well MW-2; isopropyl ether was identified in well MW-3. All concentrations were reported as estimates on the data report sheet. No volatile organic compounds were detected in the ground water sample collected from well MW-1.

Eight extractable compounds were identified. Caprolactam was detectec in wells MW-1, MW-3, and MW-4 and ranged in concentration from 2 to 30 ug/l; butoxyethanol was detected in wells MW-1 (2ug/l) MW-3 (1 ug/l); ethylmethylbenzenesulfonamide was identified in both wells MW-2 and MW-3; concentrations were 3 and 5 ug/l respectively. Three additional compounds were detected in well MW-2; these were benzothiazolone, cyclohexyl-methylbenzenesulfonamide and tri(butoxyethanol)phosphate. Methylheptadecanoic acid, methyl ester was detected in well MW-3. Unidentified extractable compounds that were detected in ground water samples are indicated in Table 2.

Surface Water Samples

The surface water that flows through the site was sampled at five locations along the flow pattern. All sample locations are shown on Figure 3; analytical data are provided in Tables 2 and 3. Five metals were detected in each of the surface water samples; these metals and the corresponding concentration ranges (in ug/l) are tabulated below.

Barium	34	-	72
Strontium	42	-	110
Manganese	34	-	140
Calcium	21,000	-	65,000
Magnesium	2100	-	3400

The following metals were found in all surface water samples except for the sample collected from the spring, sample SW, that empties into the drainage ditch on the west portion on the site.

Zinc	22	-	120
Aluminum	210	-	8400
Iron	280	-	6900

Titanium and vanadium were identified in leachate number 3 and number 4 water samples; coded L3W and L4W respectively. Sodium was detected in all samples except leachate number 3; concentrations ranged from 3800 to 8600 ug/l. Copper was found present at 260 ug/l in leachate number 3.

All organic compounds detected in both upstream and downstream samples were found at higher concentrations in the sample collected from the upstream location. Results of the organic analyses for water samples are presented in Table 2. Specific discussion of results is presented below.

Nine volatile organic compounds were detected in the surface water samples. Chloroform was detected in the upstream and downstream water samples and in the spring water samples; concentrations were reported as estimates. Benzene, toluene, and xylenes were identified in both the upstream and downstream water samples; concentrations were reported as estimates. Ethyl benzene was found present only in the upstream water samples. The remaining two compounds reported, vinyl chloride and carbon disulfide, were found only in the downstream water sample. No volatile organic compounds were detected in either of the leachate water samples.

Three extractable organic compounds were detected in the surface water samples. Butoxyethanol was detected in both upstream and downstream water samples and from the spring water samples. Benzothiazolone was identified in the upstream and downstream water samples the upstream and downstream water samples. Bis(2-ethylhexyl)phthalate was detected in leachate number 3, sample code L3W.

Three pesticide compounds were present in surface water samples. Dieldrin was detected in the upstream and downstream water samples and in the spring water samples; concentrations ranged from 0.057 to 0.094 ug/l. Heptachlor epoxide was found present in both the spring water and in the downstream water samples. 1-Hydroxychlordene was identified in the downstream water samples only. No pesticides were detected from water samples collected at leachate points.

Sediment Samples

Six sediment samples were collected from the drainage ditch area. These included upstream and downstream sediments, and four separate leachate sediments. Analytical data are provided in Tables 4 and 5. The results of the inorganic analysis identified ten metals in all sediment samples; these are presented below with concentration ranges in mg/kg.

Chromium	8.4	-	240
Copper	20.0	-	93,000
Lead	14.0	-	550
Titanium	28.0	-	100
Zinc	41.0	-	7900
Aluminum	870.0	-	40,000
Manganese	49.0	-	560
Calcium	1500.0	-	160,000
Magnesium	320.0	-	9600
Iron	5600.0	-	52,000

Barium and nickel were found in all sediment samples except the downstream sediment; concentrations ranged from 30 to 840 ug/kg, and 6.0 to 380 ug/kg, respectively. Strontium and vanadium were detected in all sediment samples except the sediment from leachate number 3. Concentrations ranged from 4.4 to 160 ug/kg, and 9.0 to 52 ug/kg respectively.

Yttrium was detected at 4 locations: leachate number 1, (sample L1), leachate number 2, (sample L2), leachate number 4, (sample L4), and in the upstream sediment, (sample UDS). Cyanide was identified in both upstream and downstream sediments, and in leachate samples numbers 1 and 3, coded L1 and L3, respectively

Cyanide and most of the detected metals were reported at highest concentrations in sample L3 which was collected from leachate point number 3. In comparing upstream concentrations to downstream concentrations, the majority of inorganic constituents were found at higher concentrations in the upstream samples. The exceptions were copper, strontium, calcium, and magnesium.

The results of the volatile organic analysis revealed the presence of ethyl benzene, toluene, and xylene in the upstream sediment sample. Ethyl benzene was not detected in any other sediment. Toluene was also detected in L1 and in L3 ; xylene was identified in L3. Additional volatile compounds detected in L3 were bromodichloromethane, acetone and some unidentified alkylhydrocarbons. 1,1-dichloroethane, 1,1,1-trichloroethane, trichloroethene and tetrachloroethene were detected only in sediment sample L1. Leachate number 2 was determined to contain some unidentified alkylhydrocarbons but no specific compounds were reported. No volatile organic compounds were detected in either the downstream sediment sample or in the sediment collected from leachate point number 4.

Hexadecanoic acid was detected in all sediment samples by the extractable organic analysis. Ten additional compounds were identified in the upstream sediment; these are phenanthrene, fluoranthene, pyrene, benzo(A)anthracene, chrysene, benzo(B and/or K)fluoranthene, benzo-A-pyrene, tetradecanoic acid, octadecanoic acid, and methyl fluoranthene. Octadecanoic acid was also identified in sediments collected from leachate points numbers 1, 2, and 3, sample codes L1, L2, and L3; tetradecanoic acid was detected in leachate

sediment samples L2 and L3. Both leachate number 2 and leachate number 3 contained differing isomers of alkylbenzenes. C3 alkyl-naphthalene was detected in L3. Naphthalene was present in L2; bis(2-ethyl-hexyl)-phthalate was identified in L1.

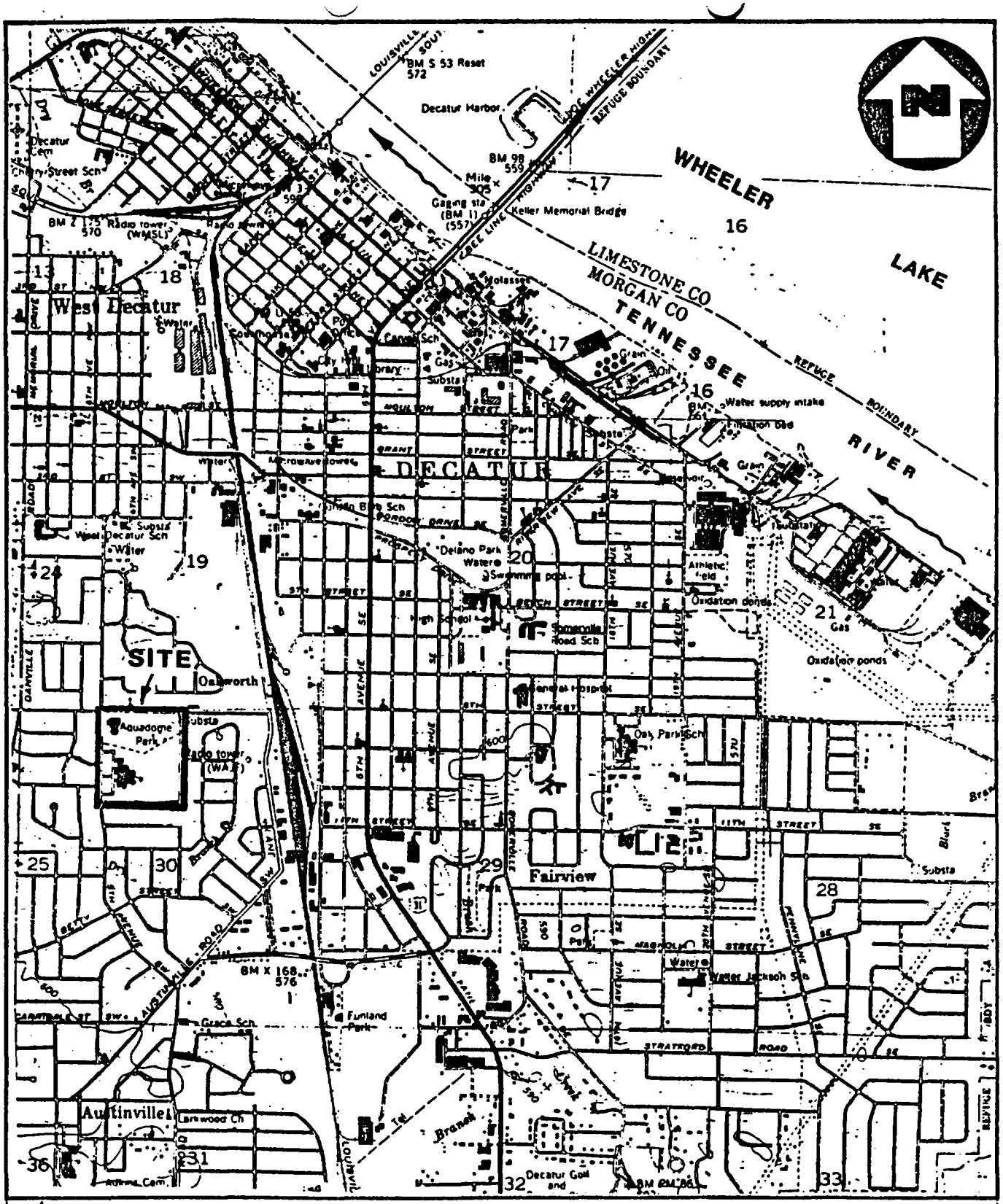
The results of the pesticides analysis determined the presence of eleven pesticides in sediment samples with a majority being determined in both the upstream and downstream locations. Those pesticides determined in both upstream and downstream sediment samples are presented with concentration ranges (in ug/kg) below.

Heptachlor epoxide	6.6J	-	16
Dieldrin	16.	-	40
4,4'-DDD	5.8	-	13
Gamma-chlordane	176.	-	59
Alpha-chlordane	9.4	-	36

With the exception of DDD, the greater concentrations were present in the sediment sample collected from the upstream location, UDS. Three pesticides were detected solely in UDS; these were 4,4'-DDT, 4,4'-DDE, and cis-nonachlor. Pesticides found solely in DS, the downstream sediment, were alpha-BHC, beta-BHC, and delta-BHC. Only one leachate location indicated the presence of pesticides; leachate number 1 contained both heptachlor epoxide and 4,4'-DDE.

METHODOLOGY

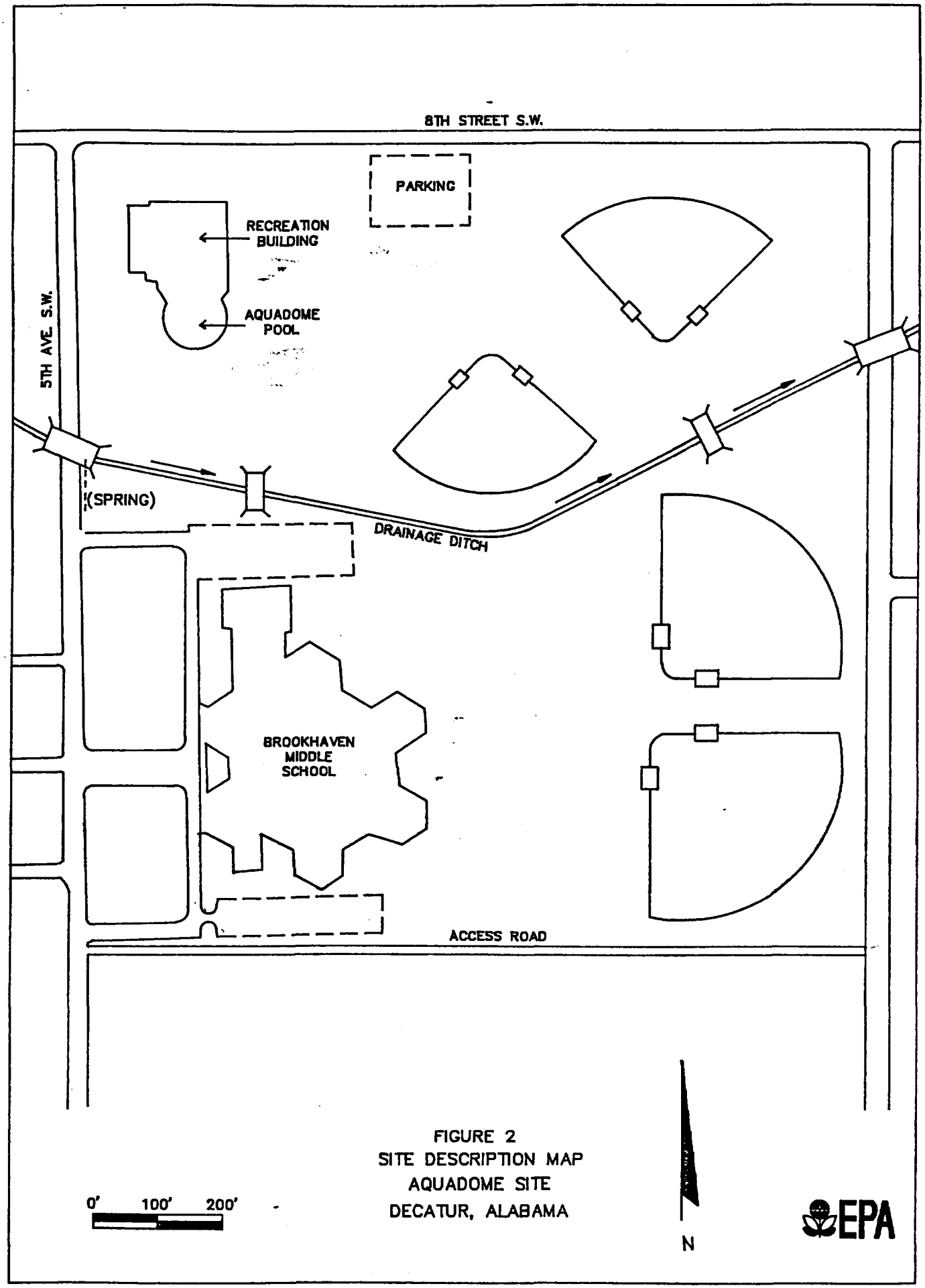
All aspects of this study were performed in accordance with the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, April 1, 1986. All sample analysis was conducted using EPA standard methods and in accordance with the Analytical Support Branch Operations and Quality Control Manual, June 1985.



(BASE MAP IS A PORTION OF THE USGS 7.5 MINUTE QUADRANGLE DECATUR, ALABAMA 1975.)

FIGURE 1
SITE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA

EPA



BH7069

FIGURE 2
SITE DESCRIPTION MAP
AQUADOME SITE
DECATUR, ALABAMA

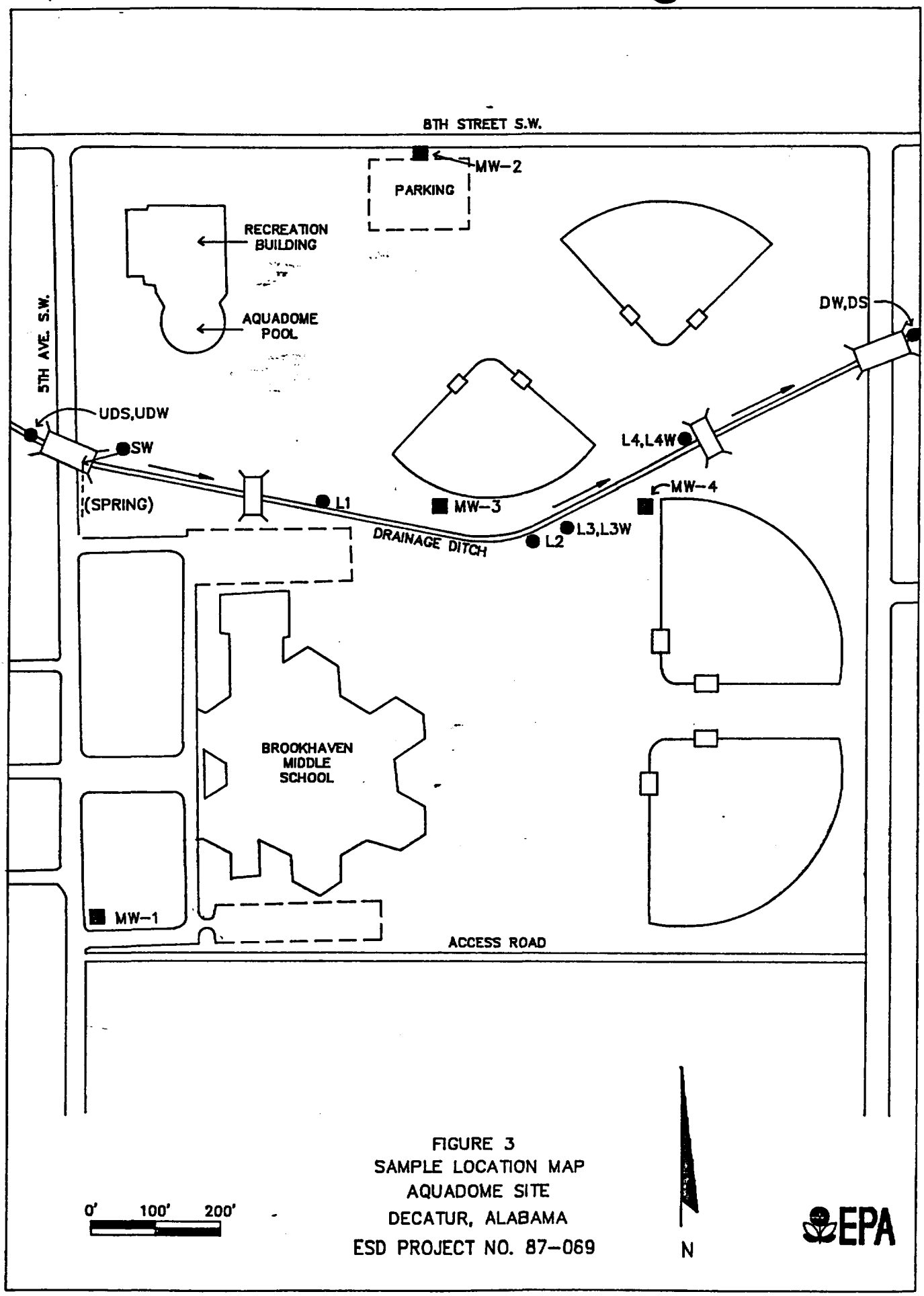


FIGURE 3
SAMPLE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA
ESD PROJECT NO. 87-069

Table 1
Aquadome Site
Decatur, Alabama
Sample Codes and Descriptions

UDW (water) UDS (sediment)	Upstream water and sediment samples collected west of the site prior to drainage flowing into the Aquadome Site.
SW (water)	Spring water sample collected from pipe at western-most portion of drainage ditch, where spring empties into drainage ditch. Sample collected contained spring water only. origin of the spring is unknown.
L1 (sediment)	Sediment sample collected from leachate point number 1. This point was located approximately 380 feet east of 5th Ave. on the bank of the drainage ditch.
L2 (sediment)	Sediment sample collected from leachate point number 2. This point was located approximately 320 feet downstream from leachate point number 1.
L3 (sediment) L3W (water)	Sediment and water samples collected from leachate point number 3 which was located approximately 50 feet downstream from leachate point number 2.
L4 (sediment) L4W (water)	Sediment and water samples collected from leachate point number 4. This point was located approximately 220 feet downstream of leachate point number 3.
DW (water) DS (sediment)	Downstream water and sediment samples collected east and just downstream from the site.

Table 1 (cont)
Aquadome Site
Decatur, Alabama
Sample Codes and Descriptions

MW1 (water)	Ground water samples collected from monitor well number 1. This well is located in the southwest corner of the site.
MW2 (water)	Ground water sample collected from monitor well number 2. This well is located approximately center of the northern most section of the site.
MW3 (water)	Ground water sample collected from monitor well number 3 which is located approximately in the center of the site north of the drainage ditch.
MW4 (water)	Ground water sample collected from monitor well number 4. Monitor well number 4 is located approximately 300 feet east of monitor well number 3 and is south of the drainage ditch.

TABLE 2
AQUADOME SITE
DECATUR, ALABAMA
ORGANIC ANALYSES
WATER SAMPLES

	UDW	SW	DW	L3W	L4W	MW1	MW2	MW3	MW4
SELECTED CHLORINATED COMPOUNDS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
HEPTACHLOR EPOXIDE	--	0.073	0.032A	--	--	--	--	--	--
ENDOSULFAN I (ALPHA)	--	--	--	--	--	0.045M	--	--	--
DIELDRIN	0.060	0.094	0.057A	--	--	--	--	--	--
1-HYDROXYCHLORDENE /2	--	--	0.070A	--	--	--	--	--	--
EXTRACTABLE ORGANIC COMPOUNDS									
BIS(2-ETHYLHEXYL) PHTHALATE	--	--	--	19	--	--	--	--	--
CAFFEINE	6JM	--	3JM	--	--	--	--	--	--
BENZOTHIAZOLONE	--	--	--	--	--	--	3JM	--	--
CYCLOHEXYLMETHYLBENZENESULFONAMIDE	--	--	--	--	--	--	2JM	--	--
TRI(BUTOXYETHANOL)PHOSPHATE	--	--	--	--	--	--	2JM	--	--
2 UNIDENTIFIED COMPOUNDS	--	--	--	--	--	--	50J	--	--
BUTOXYETHANOL	2JM	3JM	1JM	--	--	2JM	--	1JM	--
ETHYLMETHYLBENZENESULFONAMIDE	--	--	--	--	--	--	3JM	5JM	--
METHYLHEPTADECANOIC ACID,METHYL ESTER	--	--	--	--	--	--	--	8JM	--
CAPROLACTAM	--	--	--	--	--	2JM	--	30JM	20JM
1 UNIDENTIFIED COMPOUND	--	--	--	--	--	--	--	--	20J
PURGEABLE ORGANIC COMPOUNDS									
VINYL CHLORIDE	--	--	3.3J	--	--	--	--	--	3.2J
TRANS-1,2-DICHLOROETHENE	--	--	--	--	--	--	--	--	0.6J
CHLOROFORM	2J	1.8J	1.5J	--	--	--	--	--	--
TRICHLOROETHENE(TRICHLOROETHYLENE)	--	0.5J	13	--	--	--	--	--	--
BENZENE	2J	--	8.1	--	--	--	--	--	--
TETRACHLOROETHENE(TETRACHLOROETHYLENE)	--	19	4.6J	--	--	--	--	--	--
TOLUENE	32	--	9.1	--	--	--	--	--	--
CHLOROBENZENE	--	--	--	--	--	--	0.8J	--	--
ETHYL BENZENE	3.4J	--	--	--	--	--	--	--	--
TOTAL XYLENES	21	--	5	--	--	--	--	--	--
ISOPROPYLETHER	--	--	--	--	--	--	--	7JM	--
CARBON DISULFIDE	--	--	99	--	--	--	--	--	--
CIS 1,2 DICHLOROETHENE	--	--	--	--	--	--	--	--	4JM

****

FOOTNOTES

A - AVERAGE VALUE
M - PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
NA - NOT ANALYZED
-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED
J - ESTIMATED VALUE

TABLE 3
AQUADOME SITE
DECATUR, ALABAMA
INORGANIC ANALYSES
WATER SAMPLES

	UDW	SW	DW	L3W	L4W	MW1	MW2	MW3	MW4
INORGANIC ELEMENT/COMPOUND	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
BARIUM	36	34	46	72	53	410	200	190	130
COBALT	--	--	--	--	--	--	40J	--	--
CHROMIUM	--	--	--	--	--	16	10	42	--
COPPER	--	--	--	260	--	--	--	--	--
NICKEL	--	--	--	--	--	--	--	22	--
STRONTIUM	90	100	110	42	50	140	61	510	690
TITANIUM	--	--	--	100	68	62	77	240	51
VANADIUM	--	--	--	16	12	12	16	52	12
YTTRIUM	--	--	--	--	--	13	24	43	--
ZINC	37	--	22	120	42	55	440	130	25
ALUMINUM	320	--	210	8400	5300	8700	5300	26000	5500
MANGANESE	90	34	120	100	140	4000	6400	1500	1200
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
CALCIUM	52	65	55	21	26	81	22	140	220
MAGNESIUM	2.8	2.9	3.4	2.7	2.1	9.6	6.8	7.2	15
IRON	0.28	--	0.45	6.9	6.3	3.7	42	17	3.2
SODIUM	8.6	3.8	7.3	--	3.9	20	32	120	90
CYANIDE	--	--	--	--	--	0.003	--	--	--

****

FOOTNOTES
NA - NOT ANALYZED
J - ESTIMATED VALUE
-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED

TABLE 4
AQUADOME SITE
DECATUR, ALABAMA
ORGANIC ANALYSES
SOIL/SEDIMENT SAMPLES

	L1	L2	L3	L4	DS	UDS
SELECTED CHLORINATED COMPOUNDS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
HEPTACHLOR EPOXIDE	5.8	--	--	--	6.6J	16
ALPHA-BHC	--	--	--	--	5.4	--
BETA-BHC	--	--	--	--	18	--
DELTA-BHC	--	--	--	--	54	--
DIELDRIN	--	--	--	--	16	40
4,4'-DDT (P,P'-DDT)	--	--	--	--	--	6.9J
4,4'-DDE (P,P'-DDE)	6.2	--	--	--	--	13
4,4'-DDD (P,P'-DDD)	--	--	--	--	13	5.8
GAMMA-CHLORDANE /2	NA	NA	NA	NA	16	59
ALPHA-CHLORDANE /2	NA	NA	NA	NA	9.4	36
CIS-NONACHLOR /2	NA	NA	NA	NA	--	7.3
EXTRACTABLE ORGANIC COMPOUNDS						
NAPHTHALENE	--	2500J	--	--	--	--
PHENANTHRENE	--	--	--	--	--	280J
FLUORANTHENE	--	--	--	--	--	760J
PYRENE	--	--	--	--	--	650J
BIS(2-ETHYLHEXYL) PHTHALATE	8900	--	--	--	--	--
BENZO(A)ANTHRACENE	--	--	--	--	--	280J
CHRYSENE	--	--	--	--	--	490J
BENZO(B AND/OR K)FLUORANTHENE	--	--	--	--	--	410J
BENZO-A-PYRENE	--	--	--	--	--	340J
C3 ALKYLBENZENE (3 ISOMERS)	--	30000JN	--	--	--	--
C4 ALKYLBENZENE (7 ISOMERS)	--	70000JN	--	--	--	--
C5 ALKYLBENZENE (2 ISOMERS)	--	10000JN	--	--	--	--
C4 ALKYLBENZENE (3 ISOMERS)	--	--	10000JN	--	--	--
C3 ALKYLNAPHTHALENE	--	--	5000JN	--	--	--
ETHYLIDENEBIS(C2 ALKYLBENZENE)	--	--	--	--	400JN	--
TETRADECANOIC ACID	--	3000JN	30000JN	--	--	400JN
HEXADECANOIC ACID	800JN	50000JN	300000JN	200JN	300JN	2000JN
OCTADECANOIC ACID	300JN	10000JN	60000JN	--	--	1000JN
METHYLFLUORANTHENE	--	--	--	--	--	300JN
PETROLEUM PRODUCT	--	N	N	--	N	N
PURGEABLE ORGANIC COMPOUNDS						
1,1-DICHLOROETHANE	2.5J	--	--	--	--	--
1,1,1-TRICHLOROETHANE	19	--	--	--	--	--
BROMODICHLOROMETHANE	--	--	3.6J	--	--	--
TRICHLOROETHENE(TRICHLOROETHYLENE)	4J	--	--	--	--	--
TETRACHLOROETHENE(TETRACHLOROETHYLENE)	2.3J	--	--	--	--	--
TOLUENE	6.6J	--	33J	--	--	23
ETHYL BENZENE	--	--	--	--	--	2.1J
TOTAL XYLENES	--	--	33J	--	--	18
TOTAL UNIDENTIFIED ALKYLHYDROCARBONS	--	70000J	2000J	--	--	--
ACETONE	--	--	680J	--	--	--

****

FOOTNOTES

NA - NOT ANALYZED
J - ESTIMATED VALUE
N - PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED

TABLE 5
AQUADOME SITE
DECATUR, ALABAMA
INORGANIC ANALYSES
SOIL/SEDIMENT SAMPLES

INORGANIC ELEMENT/COMPOUND	L1 MG/KG	L2 MG/KG	L3 MG/KG	L4 MG/KG	DS MG/KG	UDS MG/KG
BARIUM	45	30	840	94	--	72
CHROMIUM	33	8.4	240	53	19	34
COPPER	20	480	93000	60	36	21
NICKEL	7.2	6.0	380	8.1	--	8.7
LEAD	86	14	550	46	21	280
STRONTIUM	66	4.4	--	20	160	77
TITANIUM	100	100	260	36	28	93
VANADIUM	42	9.0	--	52	14	38
YTTRIUM	9.0	3.2	--	4.8	--	9.0
ZINC	370	89	7900	79	41	210
ALUMINUM	14000	4200	40000	28000	870	12000
MANGANESE	450	49	520	74	110	560
CALCIUM	52000	1500	21000	4200	160000	66000
MAGNESIUM	1700	320	9600	1100	3100	2100
IRON	20000	5600	52000	22000	9600	18000
CYANIDE	0.82	--	0.83	--	0.39J	0.82

****

FOOTNOTES
J - ESTIMATED VALUE
-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADYNE
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METAYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE
2JN	BUTOXYETHANOL
8JN	CAFFEINE

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14702 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADONE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW SPRING WATER
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0925
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINUMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14702 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW SPRING WATER
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0945
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE
3JN	BUTOXYETHANOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14703 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14703 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE
1JN	BUTOXYETHANOL
3JN	CAFFEINE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14708 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
19	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14708 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14710 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4W LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1325
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14710 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AGOADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4W LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1345
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14711 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADYNE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW1 MONWL #1
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1500
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINUMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10UJ	UG/L	2-CHLOROPHENOL
10UJ	UG/L	2-NITROPHENOL
10UJ	UG/L	PHENOL
10UJ	UG/L	2,4-DIMETHYLPHENOL
10UJ	UG/L	2,4-DICHLOROPHENOL
10UJ	UG/L	2,4,6-TRICHLOROPHENOL
10UJ	UG/L	4-CHLORO-3-METHYLPHENOL
20UJ	UG/L	2,4-DINITROPHENOL
20UJ	UG/L	2-METHYL-4,6-DINITROPHENOL
20UJ	UG/L	PENTACHLOROPHENOL
20UJ	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14711 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW1 MONWL #1
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1500
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGK

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

******ANALYTICAL RESULTS******

RESULTS IN: UG/L	COMPOUND NAME
20UJ	BENZOIC ACID
10UJ	2-METHYLPHENOL
10UJ	4-METHYLPHENOL
10UJ	2,4,5-TRICHLOROPHENOL
10UJ	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE
2JN	BUTOXYETHANOL
2JN	CAPROLACTAM

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADUNE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1555
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1555
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITRUANILINE
3JN	BENZOTHIAZOLONE
3JN	ETHYLMETHYLBENZENESULFONAMIDE
2JN	CYCLOHEXYLMETHYLBENZENESULFONAMIDE
2JN	TRI(BUTOXYETHANOL)PHOSPHATE
50J	2 UNIDENTIFIED COMPOUNDS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14713 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REC IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14713 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE
1JN	BUTOXYETHANOL
30JN	CAPROLACTAM
5JN	ETHYLMETHYLBENZENESULFONAMIDE
8JN	METHYLHEPTADECANOIC ACID,METHYL ESTER

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 87C14714 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW4 MONWL #4
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1200
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINUMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10U	UG/L	1,3-DICHLOROBENZENE
10U	UG/L	1,4-DICHLOROBENZENE
10U	UG/L	1,2-DICHLOROBENZENE
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	NITROBENZENE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	1,2,4-TRICHLOROBENZENE
10U	UG/L	NAPHTHALENE
10U	UG/L	BIS(2-CHLOROETHOXY) METHANE
10U	UG/L	ISOPHORONE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2-CHLORONAPHTHALENE
10U	UG/L	ACENAPHTHYLENE
10U	UG/L	ACENAPHTHENE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
10U	UG/L	FLUORENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-NITROPHENOL
10U	UG/L	PHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	2,4,6-TRICHLOROPHENOL
10U	UG/L	4-CHLORO-3-METHYLPHENOL
20U	UG/L	2,4-DINITROPHENOL
20U	UG/L	2-METHYL-4,6-DINITROPHENOL
20U	UG/L	PENTACHLOROPHENOL
20U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14714 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW4 MONWL #4
STORET STATION NO: NEED

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1200
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20U	BENZOIC ACID
10U	2-METHYLPHENOL
10U	4-METHYLPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
10U	DIBENZOFURAN
10U	2-METHYLNAPHTHALENE
10U	2-NITROANILINE
10U	3-NITROANILINE
10U	4-NITROANILINE
20JN	CAPROLACTAM
20J	1 UNIDENTIFIED COMPOUND

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FOOTNOTES
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*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14700 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL
STATION I.D.: AD-UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0920
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2200U	UG/KG	1,3-DICHLOROBENZENE
2200U	UG/KG	1,4-DICHLOROBENZENE
2200U	UG/KG	1,2-DICHLOROBENZENE
2200U	UG/KG	BIS(2-CHLOROETHYL) ETHER
2200U	UG/KG	HEXACHLOROETHANE
2200U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
2200U	UG/KG	N-NITROSODI-N-PROPYLAMINE
2200U	UG/KG	NITROBENZENE
2200U	UG/KG	HEXACHLOROBUTADIENE
2200U	UG/KG	1,2,4-TRICHLOROBENZENE
2200U	UG/KG	NAPHTHALENE
2200U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
2200U	UG/KG	ISOPHORONE
2200U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
2200U	UG/KG	2-CHLORONAPHTHALENE
2200U	UG/KG	ACENAPHTHYLENE
2200U	UG/KG	ACENAPHTHENE
2200U	UG/KG	DIMETHYL PHTHALATE
2200U	UG/KG	2,4-DINITROTOLUENE
2200U	UG/KG	2,6-DINITROTOLUENE
2200U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
2200U	UG/KG	FLUORENE
2200U	UG/KG	DIETHYL PHTHALATE
2200U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
2200U	UG/KG	HEXACHLOROBENZENE (HCB)
2200U	UG/KG	4-BROMOPHENYL PHENYL ETHER
280J	UG/KG	PHENANTHRENE
2200U	UG/KG	ANTHRACENE
2200U	UG/KG	DI-N-BUTYLPHTHALATE
780J	UG/KG	FLUORANTHENE
650J	UG/KG	PYRENE
2200U	UG/KG	BENZYL BUTYL PHTHALATE
2200U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
280J	UG/KG	BENZO(A)ANTHRACENE
490J	UG/KG	CHRYSENE
2200U	UG/KG	3,3'-DICHLOROBENZIDINE
2200U	UG/KG	DI-N-OCTYLPHTHALATE
[illegible]	UG/KG	[illegible]
[illegible]	UG/KG	BENZO(B)FLUORANTHENE
1300J	UG/KG	BENZO(K)FLUORANTHENE
2200U	UG/KG	INDENO (1,2,3-CD) PYRENE
2200U	UG/KG	DIBENZO(A,H)ANTHRACENE
2200U	UG/KG	BENZO(GHI)PERYLENE
2200U	UG/KG	2-CHLOROPHENOL
2200U	UG/KG	2-NITROPHENOL
2200U	UG/KG	PHENOL
2200U	UG/KG	2,4-DIMETHYLPHENOL
44000	UG/KG	2,4-DICHLOROPHENOL
2200U	UG/KG	2,4,6-TRICHLOROPHENOL
2200U	UG/KG	4-CHLORO-3-METHYLPHENOL
44000	UG/KG	2,4-DINITROPHENOL
44000	UG/KG	2-METHYL-4,6-DINITROPHENOL
44000	UG/KG	PENTACHLOROPHENOL
44000	UG/KG	4-NITROPHENOL
47	%	MOISTURE

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1005
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: S BENOY RECEIVED FROM: S BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINUMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
1500U	UG/KG	1,3-DICHLOROBENZENE
1500U	UG/KG	1,4-DICHLOROBENZENE
1500U	UG/KG	1,2-DICHLOROBENZENE
1500U	UG/KG	BIS(2-CHLOROETHYL) ETHER
1500U	UG/KG	HEXACHLOROETHANE
1500U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
1500U	UG/KG	N-NITROSODI-N-PROPYLAMINE
1500U	UG/KG	NITROBENZENE
1500U	UG/KG	HEXACHLOROBUTADIENE
1500U	UG/KG	1,2,4-TRICHLOROBENZENE
1500U	UG/KG	NAPHTHALENE
1500U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
1500U	UG/KG	ISOPHORONE
1500U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
1500U	UG/KG	2-CHLORONAPHTHALENE
1500U	UG/KG	ACENAPHTHYLENE
1500U	UG/KG	ACENAPHTHENE
1500U	UG/KG	DIMETHYL PHTHALATE
1500U	UG/KG	2,4-DINITROTOLUENE
1500U	UG/KG	2,6-DINITROTOLUENE
1500U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1500U	UG/KG	FLUORENE
1500U	UG/KG	DIETHYL PHTHALATE
1500U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1500U	UG/KG	HEXACHLOROBENZENE (HCB)
1500U	UG/KG	4-BROMOPHENYL PHENYL ETHER
1500U	UG/KG	PHENANTHRENE
1500U	UG/KG	ANTHRACENE
1500U	UG/KG	DI-N-BUTYLPHTHALATE
1500U	UG/KG	FLUORANTHENE
1500U	UG/KG	PYRENE
1500U	UG/KG	BENZYL BUTYL PHTHALATE
1500U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
1500U	UG/KG	BENZO(A)ANTHRACENE
1500U	UG/KG	CHRYSENE
1500U	UG/KG	3,3'-DICHLOROBENZIDINE
1500U	UG/KG	DI-N-OCTYLPHTHALATE
1500U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
1500U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
1500U	UG/KG	BENZO-A-PYRENE
1500U	UG/KG	INDENO (1,2,3-CD) PYRENE
1500U	UG/KG	DIBENZO(A,H)ANTHRACENE
1500U	UG/KG	BENZO(GHI)PERYLENE
1500U	UG/KG	2-CHLOROPHENOL
1500U	UG/KG	2-NITROPHENOL
1500U	UG/KG	PHENOL
1500U	UG/KG	2,4-DIMETHYLPHENOL
1500U	UG/KG	2,4-DICHLOROPHENOL
1500U	UG/KG	2,4,6-TRICHLOROPHENOL
1500U	UG/KG	4-CHLORO-3-METHYLPHENOL
2900U	UG/KG	2,4-DINITROPHENOL
2900U	UG/KG	2-METHYL-4,6-DINITROPHENOL
2900U	UG/KG	PENTACHLOROPHENOL
2900U	UG/KG	4-NITROPHENOL
19	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2400U	UG/KG	1,3-DICHLOROBENZENE
2400U	UG/KG	1,4-DICHLOROBENZENE
2400U	UG/KG	1,2-DICHLOROBENZENE
2400U	UG/KG	BIS(2-CHLOROETHYL) ETHER
2400U	UG/KG	HEXACHLOROETHANE
2400U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
2400U	UG/KG	N-NITROSODI-N-PROPYLAMINE
2400U	UG/KG	NITROBENZENE
2400U	UG/KG	HEXACHLOROBUTADIENE
2400U	UG/KG	1,2,4-TRICHLOROBENZENE
2400U	UG/KG	NAPHTHALENE
2400U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
2400U	UG/KG	ISOPHORONE
2400U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
2400U	UG/KG	2-CHLORONAPHTHALENE
2400U	UG/KG	ACENAPHTHYLENE
2400U	UG/KG	ACENAPHTHENE
2400U	UG/KG	DIMETHYL PHTHALATE
2400U	UG/KG	2,4-DINITROTOLUENE
2400U	UG/KG	2,6-DINITROTOLUENE
2400U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
2400U	UG/KG	FLUORENE
2400U	UG/KG	DIETHYL PHTHALATE
2400U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
2400U	UG/KG	HEXACHLOROBENZENE (HCB)
2400U	UG/KG	4-BROMOPHENYL PHENYL ETHER
2400U	UG/KG	PHENANTHRENE
2400U	UG/KG	ANTHRACENE
2400U	UG/KG	DI-N-BUTYLPHTHALATE
2400U	UG/KG	FLUORANTHENE
2400U	UG/KG	PYRENE
2400U	UG/KG	BENZYL BUTYL PHTHALATE
4900	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
2400U	UG/KG	BENZO(A)ANTHRACENE
2400U	UG/KG	CHRYSENE
2400U	UG/KG	3,3'-DICHLOROBENZIDINE
2400U	UG/KG	DI-N-OCTYLPHTHALATE
[illegible]	[illegible]	BENZO(B AND/OR K)FLUORANTHENE
2400U	UG/KG	BENZO-A-PYRENE
2400U	UG/KG	INDENO (1,2,3-CD) PYRENE
2400U	UG/KG	DIBENZO(A,H)ANTHRACENE
2400U	UG/KG	BENZO(GHI)PERYLENE
2400U	UG/KG	2-CHLOROPHENOL
2400U	UG/KG	2-NITROPHENOL
2400U	UG/KG	PHENOL
2400U	UG/KG	2,4-DIMETHYLPHENOL
2400U	UG/KG	2,4-DICHLOROPHENOL
2400U	UG/KG	2,4,6-TRICHLOROPHENOL
2400U	UG/KG	4-CHLORO-3-METHYLPHENOL
4700U	UG/KG	2,4-DINITROPHENOL
4700U	UG/KG	2-METHYL-4,6-DINITROPHENOL
4700U	UG/KG	PENTACHLOROPHENOL
4700U	UG/KG	4-NITROPHENOL
47	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
CPA-ESD, REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14706 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2 LEACHATE #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1110
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
160000U	UG/KG	1,3-DICHLOROBENZENE
160000U	UG/KG	1,4-DICHLOROBENZENE
160000U	UG/KG	1,2-DICHLOROBENZENE
160000U	UG/KG	BIS(2-CHLOROETHYL) ETHER
160000U	UG/KG	HEXACHLOROETHANE
160000U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
160000U	UG/KG	N-NITROSODI-N-PROPYLAMINE
160000U	UG/KG	NITROBENZENE
160000U	UG/KG	HEXACHLOROBUTADIENE
160000U	UG/KG	1,2,4-TRICHLOROBENZENE
25000J	UG/KG	NAPHTHALENE
160000U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
160000U	UG/KG	ISOPHORONE
160000U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
160000U	UG/KG	2-CHLORONAPHTHALENE
160000U	UG/KG	ACENAPHTHYLENE
160000U	UG/KG	ACENAPHTHENE
160000U	UG/KG	DIMETHYL PHTHALATE
160000U	UG/KG	2,4-DINITROTOLUENE
160000U	UG/KG	2,6-DINITROTOLUENE
160000U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
160000U	UG/KG	FLUORENE
160000U	UG/KG	DIETHYL PHTHALATE
160000U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
160000U	UG/KG	HEXACHLOROBENZENE (HCB)
160000U	UG/KG	4-BROMOPHENYL PHENYL ETHER
160000U	UG/KG	PHENANTHRENE
160000U	UG/KG	ANTHRACENE
160000U	UG/KG	DI-N-BUTYLPHTHALATE
160000U	UG/KG	FLUORANTHENE
160000U	UG/KG	PYRENE
160000U	UG/KG	BENZYL BUTYL PHTHALATE
160000U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
160000U	UG/KG	BENZO(A)ANTHRACENE
160000U	UG/KG	CHRYSENE
160000U	UG/KG	3,3'-DICHLOROBENZIDINE
160000U	UG/KG	DI-N-OCTYLPHTHALATE
160000U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
160000U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
160000U	UG/KG	BENZO-A-PYRENE
160000U	UG/KG	INDENO (1,2,3-CD) PYRENE
160000U	UG/KG	DIBENZO(A,H)ANTHRACENE
160000U	UG/KG	BENZO(GHI)PERYLENE
160000U	UG/KG	2-CHLOROPHENOL
160000U	UG/KG	2-NITROPHENOL
160000U	UG/KG	PHENOL
160000U	UG/KG	2,4-DIMETHYLPHENOL
160000U	UG/KG	2,4-DICHLOROPHENOL
160000U	UG/KG	2,4,6-TRICHLOROPHENOL
160000U	UG/KG	4-CHLORO-3-METHYLPHENOL
320000U	UG/KG	2,4-DINITROPHENOL
320000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
320000U	UG/KG	PENTACHLOROPHENOL
320000U	UG/KG	4-NITROPHENOL
23	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REC IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*K=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
43000U	UG/KG	1,3-DICHLORBENZENE
43000U	UG/KG	1,4-DICHLOROBENZENE
43000U	UG/KG	1,2-DICHLOROBENZENE
43000U	UG/KG	BIS(2-CHLOROETHYL) ETHER
43000U	UG/KG	HEXACHLOROETHANE
43000U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
43000U	UG/KG	N-NITROSODI-N-PROPYLAMINE
43000U	UG/KG	NITROBENZENE
43000U	UG/KG	HEXACHLOROBUTADIENE
43000U	UG/KG	1,2,4-TRICHLOROBENZENE
43000U	UG/KG	NAPHTHALENE
43000U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
43000U	UG/KG	ISOPHORONE
43000U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
43000U	UG/KG	2-CHLORONAPHTHALENE
43000U	UG/KG	ACENAPHTHYLENE
43000U	UG/KG	ACENAPHTHENE
43000U	UG/KG	DIMETHYL PHTHALATE
43000U	UG/KG	2,4-DINITROTOLUENE
43000U	UG/KG	2,6-DINITROTOLUENE
43000U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
43000U	UG/KG	FLUORENE
43000U	UG/KG	DIETHYL PHTHALATE
43000U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
43000U	UG/KG	HEXACHLOROBENZENE (HCB)
43000U	UG/KG	4-BROMOPHENYL PHENYL ETHER
43000U	UG/KG	PHENANTHRENE
43000U	UG/KG	ANTHRACENE
43000U	UG/KG	DI-N-BUTYLPHTHALATE
43000U	UG/KG	FLUORANTHENE
43000U	UG/KG	PYRENE
43000U	UG/KG	BENZYL BUTYL PHTHALATE
43000U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
43000U	UG/KG	BENZO(A)ANTHRACENE
43000U	UG/KG	CHRYSENE
43000U	UG/KG	3,3'-DICHLOROBENZIDINE
43000U	UG/KG	DI-N-OCTYLPHTHALATE
43000U	UG/KG	BENZO(B) AND/OR BENZO(K)FLUORANTHENE
43000U	UG/KG	BENZO(A)PYRENE
43000U	UG/KG	INDENO (1,2,3-CD) PYRENE
43000U	UG/KG	DIBENZO(A,H)ANTHRACENE
43000U	UG/KG	BENZO(GHI)PERYLENE
43000U	UG/KG	2-CHLOROPHENOL
43000U	UG/KG	2-NITROPHENOL
43000U	UG/KG	PHENOL
43000U	UG/KG	2,4-DICHLOROPHENOL
43000U	UG/KG	2,4-DIMETHYLPHENOL
43000U	UG/KG	2,4,6-TRICHLOROPHENOL
43000U	UG/KG	4-CHLORO-3-METHYLPHENOL
86000U	UG/KG	2,4-DINITROPHENOL
86000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
86000U	UG/KG	PENTACHLOROPHENOL
86000U	UG/KG	4-NITROPHENOL
39	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG. IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14709 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4 LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1330
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECD: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
18000U	UG/KG	1,3-DICHLOROBENZENE
18000U	UG/KG	1,4-DICHLOROBENZENE
18000U	UG/KG	1,2-DICHLOROBENZENE
18000U	UG/KG	BIS(2-CHLOROETHYL) ETHER
18000U	UG/KG	HEXACHLOROETHANE
18000U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
18000U	UG/KG	N-NITROSODI-N-PROPYLAMINE
18000U	UG/KG	NITROBENZENE
18000U	UG/KG	HEXACHLOROBUTADIENE
18000U	UG/KG	1,2,4-TRICHLOROBENZENE
18000U	UG/KG	NAPHTHALENE
18000U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
18000U	UG/KG	ISOPHORONE
18000U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
18000U	UG/KG	2-CHLORONAPHTHALENE
18000U	UG/KG	ACENAPHTHYLENE
18000U	UG/KG	ACENAPHTHENE
18000U	UG/KG	DIMETHYL PHTHALATE
18000U	UG/KG	2,4-DINITROTOLUENE
18000U	UG/KG	2,6-DINITROTOLUENE
18000U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
18000U	UG/KG	FLUORENE
18000U	UG/KG	DIETHYL PHTHALATE
18000U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
18000U	UG/KG	HEXACHLOROBENZENE (HCB)
18000U	UG/KG	4-BROMOPHENYL PHENYL ETHER
18000U	UG/KG	PHENANTHRENE
18000U	UG/KG	ANTHRACENE
18000U	UG/KG	DI-N-BUTYLPHTHALATE
18000U	UG/KG	FLUORANTHENE
18000U	UG/KG	PYRENE
18000U	UG/KG	BENZYL BUTYL PHTHALATE
18000U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
18000U	UG/KG	BENZO(A)ANTHRACENE
18000U	UG/KG	CHRYSENE
18000U	UG/KG	3,3'-DICHLOROBENZIDINE
18000U	UG/KG	DI-N-OCTYLPHTHALATE
18000U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
18000U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
18000U	UG/KG	BENZO-A-PYRENE
18000U	UG/KG	INDENO (1,2,3-CD) PYRENE
18000U	UG/KG	DIBENZO(A,H)ANTHRACENE
18000U	UG/KG	BENZO(GHI)PERYLENE
18000U	UG/KG	2-CHLOROPHENOL
18000U	UG/KG	2-NITROPHENOL
18000U	UG/KG	PHENOL
18000U	UG/KG	2,4-DIMETHYLPHENOL
18000U	UG/KG	2,4-DICHLOROPHENOL
18000U	UG/KG	2,4,6-TRICHLOROPHENOL
18000U	UG/KG	4-CHLORO-3-METHYLPHENOL
36000U	UG/KG	2,4-DINITROPHENOL
36000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
36000U	UG/KG	PENTACHLOROPHENOL
36000U	UG/KG	4-NITROPHENOL
31	%	MOISTURE

****

FOOTNOTES

*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14700 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD=UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0940
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
4400U	BENZOIC ACID
2200U	2-METHYLPHENOL
2200U	4-METHYLPHENOL
2200U	2,4,5-TRICHLOROPHENOL
2200U	BENZYL ALCOHOL
4400U	4-CHLOROANILINE
2200U	DIBENZOFURAN
2200U	2-METHYLNAPHTHALENE
2200U	2-NITROANILINE
22000U	3-NITROANILINE
2200U	4-NITROANILINE
400JN	TETRADECANOIC ACID
2000JN	HEXADECANOIC ACID
1000JN	OCTADECANOIC ACID
300JN	METHYLFLUORANTHENE
N	PETROLEUM PRODUCT

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1005
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
2900U	BENZOIC ACID
1500U	2-METHYLPHENOL
1500U	4-METHYLPHENOL
1500U	2,4,5-TRICHLOROPHENOL
1500U	BENZYL ALCOHOL
2900U	4-CHLOROANILINE
1500U	DIBENZOFURAN
1500U	2-METHYLNAPHTHALENE
1500U	2-NITROANILINE
1500U	3-NITROANILINE
1500U	4-NITROANILINE
300JN	HEXADECANOIC ACID
400JN	ETHYLIDENEBIS(C2 ALKYLBENZENE)
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-EBD, REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
4700U	BENZOIC ACID
2400U	2-METHYLPHENOL
2400U	4-METHYLPHENOL
2400U	2,4,5-TRICHLOROPHENOL
2400U	BENZYL ALCOHOL
4700U	4-CHLOROANILINE
2400U	DIBENZOFURAN
2400U	2-METHYLNAPHTHALENE
2400U	2-NITROANILINE
2400U	3-NITROANILINE
2400U	4-NITROANILINE
800JN	HEXADECANOIC ACID
300JN	OCTADECANOIC ACID

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14706 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AGUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2 LEACHATE #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1110
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
320000U	BENZOIC ACID
160000U	2-METHYLPHENOL
160000U	4-METHYLPHENOL
160000U	2,4,5-TRICHLOROPHENOL
160000U	BENZYL ALCOHOL
320000U	4-CHLOROANILINE
160000U	DIBENZOFURAN
160000U	2-METHYLNAPHTHALENE
160000U	2-NITROANILINE
160000U	3-NITROANILINE
160000U	4-NITROANILINE
30000JN	C3 ALKYLBENZENE (3 ISOMERS)
70000JN	C4 ALKYLBENZENE (7 ISOMERS)
10000JN	C6 ALKYLBENZENE (2 ISOMERS)
3000JN	TETRADECANOIC ACID
50000JN	HEXADECANOIC ACID
10000JN	OCTADECANOIC ACID
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
860000U	BENZOIC ACID
430000U	2-METHYLPHENOL
430000U	4-METHYLPHENOL
430000U	2,4,5-TRICHLOROPHENOL
430000U	BENZYL ALCOHOL
860000U	4-CHLOROANILINE
430000U	DIBENZOFURAN
430000U	2-METHYLNAPHTHALENE
430000U	2-NITROANILINE
430000U	3-NITROANILINE
430000U	4-NITROANILINE
10000JN	C4 ALKYLBENZENE (3 ISOMERS)
5000JN	C3 ALKYLNAPHTHALENE
10000JN	TETRADECANOIC ACID
30000JN	HEXADECANOIC ACID
60000JN	OCTADECANOIC ACID
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

02/10/87 EXTRACTABLE ORGANIC ANALYSIS, MISC
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14709 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4 LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1330
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3600U	BENZOIC ACID
1800U	2-METHYLPHENOL
1800U	4-METHYLPHENOL
1800U	2,4,5-TRICHLOROPHENOL
1800U	BENZYL ALCOHOL
3600U	4-CHLOROANILINE
1800U	DIBENZOFURAN
1800U	2-METHYLNAPHTHALENE
1800U	2-NITROANILINE
1800U	3-NITROANILINE
1800U	4-NITROANILINE
200JN	HEXADECANOIC ACID

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/21/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14700 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0920
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGP
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGP

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3.1U	UG/KG	ALDRIN
3.5U	UG/KG	HEPTACHLOR
16	UG/KG	HEPTACHLOR EPOXIDE
1.4U	UG/KG	ALPHA-BHC
7.6U	UG/KG	BETA-BHC
1.8U	UG/KG	GAMMA-BHC (LINDANE)
4.9U	UG/KG	DELTA-BHC
19U	UG/KG	ENDOSULFAN I (ALPHA)
40	UG/KG	DIELDRIN
6.9J	UG/KG	4,4'-DDT (P,P'-DDT)
13	UG/KG	4,4'-DDE (P,P'-DDE)
5.8	UG/KG	4,4'-DDD (P,P'-DDD)
13U	UG/KG	ENDRIN
12U	UG/KG	ENDOSULFAN II (BETA)
30U	UG/KG	ENDOSULFAN SULFATE
--	UG/KG	CHLORDANE (TECH. MIXTURE) /1
50U	UG/KG	PCB-1242 (AROCLOR 1242)
240U	UG/KG	PCB-1254 (AROCLOR 1254)
50U	UG/KG	PCB-1221 (AROCLOR 1221)
50U	UG/KG	PCB-1232 (AROCLOR 1232)
50U	UG/KG	PCB-1248 (AROCLOR 1248)
240U	UG/KG	PCB-1260 (AROCLOR 1260)
50U	UG/KG	PCB-1016 (AROCLOR 1016)
360U	UG/KG	TOXAPHENE
6.1U	UG/KG	CHLORDENE /2
6.1U	UG/KG	ALPHA-CHLORDENE /2
8.4U	UG/KG	BETA CHLORDENE /2
9.1U	UG/KG	GAMMA-CHLORDENE /2
13U	UG/KG	1-HYDROXYCHLORDENE /2
59	UG/KG	GAMMA-CHLORDANE /2
35U	UG/KG	TRANS-NONACHLOR /2
36	UG/KG	ALPHA-CHLORDANE /2
7.3	UG/KG	CIS-NONACHLOR /2
34U	UG/KG	METHOXYCHLOR
52U	UG/KG	ENDRIN KETONE
47	%	MOISTURE

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/21/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1005
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGP
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGP

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
14U	UG/KG	ALDRIN
14U	UG/KG	HEPTACHLOR
6.6J	UG/KG	HEPTACHLOR EPOXIDE
5.4	UG/KG	ALPHA-BHC
18	UG/KG	BETA-BHC
8.0U	UG/KG	GAMMA-BHC (LINDANE)
54	UG/KG	DELTA-BHC
5.0U	UG/KG	ENDOSULFAN I (ALPHA)
16	UG/KG	DIELDRIN
11U	UG/KG	4,4'-DDT (P,P'-DDT)
7.3U	UG/KG	4,4'-DDE (P,P'-DDE)
13	UG/KG	4,4'-DDD (P,P'-DDD)
6.0U	UG/KG	ENDRIN
12U	UG/KG	ENDOSULFAN II (BETA)
17U	UG/KG	ENDOSULFAN SULFATE
--	UG/KG	CHLORDANE (TECH. MIXTURE) /1
120U	UG/KG	PCB-1242 (AROCLOR 1242)
66U	UG/KG	PCB-1254 (AROCLOR 1254)
120U	UG/KG	PCB-1221 (AROCLOR 1221)
120U	UG/KG	PCB-1232 (AROCLOR 1232)
120U	UG/KG	PCB-1248 (AROCLOR 1248)
66U	UG/KG	PCB-1260 (AROCLOR 1260)
120U	UG/KG	PCB-1016 (AROCLOR 1016)
260U	UG/KG	TOXAPHENE
6.6U	UG/KG	CHLORDENE /2
26U	UG/KG	ALPHA-CHLORDENE /2
12U	UG/KG	BETA CHLORDENE /2
13U	UG/KG	GAMMA-CHLORDENE /2
13U	UG/KG	1-HYDROXYCHLORDENE /2
16	UG/KG	GAMMA-CHLORDANE /2
11U	UG/KG	TRANS-NONACHLOR /2
9.4	UG/KG	ALPHA-CHLORDANE /2
5.5U	UG/KG	CIS-NONACHLOR /2
20U	UG/KG	METHOXYCHLOR
26U	UG/KG	ENDRIN KETONE
19	%	MOISTURE

REMARKS

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FOOTNOTES
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*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/21/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGP
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGP

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
7.6U	UG/KG	ALDRIN
3.8U	UG/KG	HEPTACHLOR
5.8	UG/KG	HEPTACHLOR EPOXIDE
1.5U	UG/KG	ALPHA-BHC
6.9U	UG/KG	BETA-BHC
1.9U	UG/KG	GAMMA-BHC (LINDANE)
5.7U	UG/KG	DELTA-BHC
6.7U	UG/KG	ENDOSULFAN I (ALPHA)
12U	UG/KG	DIELDRIN
25U	UG/KG	4,4'-DDT (P,P'-DDT)
6.2	UG/KG	4,4'-DDE (P,P'-DDE)
14U	UG/KG	4,4'-DDD (P,P'-DDD)
14U	UG/KG	ENDRIN
13U	UG/KG	ENDOSULFAN II (BETA)
30U	UG/KG	ENDOSULFAN SULFATE
140U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
87U	UG/KG	PCB-1242 (AROCLOR 1242)
140U	UG/KG	PCB-1254 (AROCLOR 1254)
87U	UG/KG	PCB-1221 (AROCLOR 1221)
87U	UG/KG	PCB-1232 (AROCLOR 1232)
87U	UG/KG	PCB-1248 (AROCLOR 1248)
140U	UG/KG	PCB-1260 (AROCLOR 1260)
87U	UG/KG	PCB-1016 (AROCLOR 1016)
490U	UG/KG	TOXAPHENE
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	BETA CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
30U	UG/KG	METHOXYCHLOR
100U	UG/KG	ENDRIN KETONE
47	%	MOISTURE

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/21/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14706 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: S8F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2 LEACHATE #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1110
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGP
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGP

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.1U	UG/KG	ALDRIN
6.7U	UG/KG	HEPTACHLOR
9.7U	UG/KG	HEPTACHLOR EPOXIDE
11U	UG/KG	ALPHA-BHC
10U	UG/KG	BETA-BHC
11U	UG/KG	GAMMA-BHC (LINDANE)
2.0U	UG/KG	DELTA-BHC
11U	UG/KG	ENDOSULFAN I (ALPHA)
16U	UG/KG	DIELDRIN
28U	UG/KG	4,4'-DDT (P,P'-DDT)
23U	UG/KG	4,4'-DDE (P,P'-DDE)
24U	UG/KG	4,4'-DDD (P,P'-DDD)
13U	UG/KG	ENDRIN
23U	UG/KG	ENDOSULFAN II (BETA)
17U	UG/KG	ENDOSULFAN SULFATE
56U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
220U	UG/KG	PCB-1242 (AROCLOR 1242)
150U	UG/KG	PCB-1254 (AROCLOR 1254)
220U	UG/KG	PCB-1221 (AROCLOR 1221)
220U	UG/KG	PCB-1232 (AROCLOR 1232)
220U	UG/KG	PCB-1248 (AROCLOR 1248)
150U	UG/KG	PCB-1260 (AROCLOR 1260)
220U	UG/KG	PCB-1016 (AROCLOR 1016)
730U	UG/KG	TOXAPHENE
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	BETA CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
27U	UG/KG	METHOXYCHLOR
65U	UG/KG	ENDRIN KETONE
23	%	MOISTURE

REMARKS

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FOOTNOTES
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*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/21/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGP
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGP

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
170U	UG/KG	ALDRIN
90U	UG/KG	HEPTACHLOR
270U	UG/KG	HEPTACHLOR EPOXIDE
120U	UG/KG	ALPHA-BHC
140U	UG/KG	BETA-BHC
170U	UG/KG	GAMMA-BHC (LINDANE)
170U	UG/KG	DELTA-BHC
390U	UG/KG	ENDOSULFAN I (ALPHA)
480U	UG/KG	DIELDRIN
1100U	UG/KG	4,4'-DDT (P,P'-DDT)
590U	UG/KG	4,4'-DDE (P,P'-DDE)
660U	UG/KG	4,4'-DDD (P,P'-DDD)
700U	UG/KG	ENDRIN
630U	UG/KG	ENDOSULFAN II (BETA)
13000U	UG/KG	ENDOSULFAN SULFATE
24000U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
46000U	UG/KG	PCB-1242 (AROCLOR 1242)
71000U	UG/KG	PCB-1254 (AROCLOR 1254)
46000U	UG/KG	PCB-1221 (AROCLOR 1221)
46000U	UG/KG	PCB-1232 (AROCLOR 1232)
46000U	UG/KG	PCB-1248 (AROCLOR 1248)
71000U	UG/KG	PCB-1260 (AROCLOR 1260)
46000U	UG/KG	PCB-1016 (AROCLOR 1016)
260000U	UG/KG	TOXAPHENE
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	BETA CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
1700U	UG/KG	METHOXYCHLOR
14000U	UG/KG	ENDRIN KETONE
39	%	MOISTURE

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/21/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14709 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4 LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1330
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: DGP
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: DGP

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
1.2U	UG/KG	ALDRIN
1.2U	UG/KG	HEPTACHLOR
2.1U	UG/KG	HEPTACHLOR EPOXIDE
0.96U	UG/KG	ALPHA-BHC
3.6U	UG/KG	BETA-BHC
1.2U	UG/KG	GAMMA-BHC (LINDANE)
2.1U	UG/KG	DELTA-BHC
6.5U	UG/KG	ENDOSULFAN I (ALPHA)
3.6U	UG/KG	DIELDRIN
9.2U	UG/KG	4,4'-DDT (P,P'-DDT)
3.6U	UG/KG	4,4'-DDE (P,P'-DDE)
6.5U	UG/KG	4,4'-DDD (P,P'-DDD)
6.5U	UG/KG	ENDRIN
6.5U	UG/KG	ENDOSULFAN II (BETA)
14U	UG/KG	ENDOSULFAN SULFATE
16U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
34U	UG/KG	PCB-1242 (AROCLOR 1242)
600U	UG/KG	PCB-1254 (AROCLOR 1254)
34U	UG/KG	PCB-1221 (AROCLOR 1221)
34U	UG/KG	PCB-1232 (AROCLOR 1232)
340U	UG/KG	PCB-1248 (AROCLOR 1248)
60U	UG/KG	PCB-1260 (AROCLOR 1260)
34U	UG/KG	PCB-1016 (AROCLOR 1016)
240U	UG/KG	TOXAPHENE
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	BETA CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
22U	UG/KG	METHOXYCHLOR
22U	UG/KG	ENDRIN KETONE
31	%	MOISTURE

REMARKS

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FOOTNOTES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

01/15/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14701 SAMPLE TYPE: BLKWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-TB TRIP BLANK
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0905
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/15/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14701 SAMPLE TYPE: BLKWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-TB TRIP BLANK
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0905
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-R&D,REG IV
ATHENS GEORGIA

01/15/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14701 SAMPLE TYPE: BLKWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-T8 TRIP BLANK
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0905
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/15/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14701 SAMPLE TYPE: BLKWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-TB TRIP BLANK
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0905
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14713 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1555
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: P BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
0.8J	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14711 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW1 MONWL #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1500
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14710 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4W LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1325
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14708 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
5U	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-EBD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14703 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
3.3J	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
1.5J	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
13	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
8.1	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
4.6J	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
9.1	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14702 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW SPRING WATER
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0925
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECID: DATE/TIME 12/12/86 1000 RECID BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
1.8J	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
0.5J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
19	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5U	UG/L	TOLUENE
5U	UG/L	CHLORDBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-EAD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBNA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5U	UG/L	CHLOROMETHANE
5U	UG/L	BROMOMETHANE
5U	UG/L	VINYL CHLORIDE
5U	UG/L	CHLOROETHANE
5U	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
2J	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
5U	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
5U	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
23	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
5U	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
5U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
32	UG/L	TOLUENE
5U	UG/L	CHLOROBENZENE
3.4J	UG/L	ETHYL BENZENE
21	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-EAD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14714 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW4 MONWL #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1200
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE
43N	CIS 1,2 DICHLOROETHENE

****

FOOTNOTES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14713 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: M BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE
7JN	ISOPROPYLETHER

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REC IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: 66F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1595
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14711 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW1 MONWL #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1500
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REC IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14710 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4W LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1345
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14708 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECVD: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ERD,REG IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14703 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECID: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
99	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

****

FOOTNOTES
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-EAD,REC IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14702 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW SPRING WATER
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0945
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECID: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

****

FOOTNOTES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REC IV
ATHENS GEORGIA

01/12/87 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
50U	ACETONE
50U	METHYL ETHYL KETONE
50U	CARBON DISULFIDE
50U	METHYL BUTYL KETONE
50U	METHYL ISOBUTYL KETONE
50U	STYRENE
50U	VINYL ACETATE

REMARKS

****

FOOTNOTES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14714 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AGGADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW4 MONWL #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1200
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

Received 1/12/87

Received 1/12/87

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
10U	UG/L	ARSENIC
NA	UG/L	BORON
130	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
10U	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
10U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
690	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
51	UG/L	TITANIUM
NA	UG/L	THALLIUM
12	UG/L	VANADIUM
10U	UG/L	YTTRIUM
25	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
5500	UG/L	ALUMINUM
1200	UG/L	MANGANESE
220	MG/L	CALCIUM
15	MG/L	MAGNESIUM
3.2	MG/L	IRON
90	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECD: DATE/TIME 12/12/86 1000 RECD BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.039U	UG/L	ALDRIN
0.039U	UG/L	HEPTACHLOR
0.039U	UG/L	HEPTACHLOR EPOXIDE
0.039U	UG/L	ALPHA-BHC
0.039U	UG/L	BETA-BHC
0.039U	UG/L	GAMMA-BHC (LINDANE)
0.039U	UG/L	DELTA-BHC
0.060U	UG/L	ENDOSULFAN I (ALPHA)
0.060	UG/L	DIELDRIN
0.11U	UG/L	4,4'-DDT (P,P'-DDT)
0.11U	UG/L	4,4'-DDE (P,P'-DDE)
0.11U	UG/L	4,4'-DDD (P,P'-DDD)
0.060U	UG/L	ENDRIN
0.11U	UG/L	ENDOSULFAN II (BETA)
0.17U	UG/L	ENDOSULFAN SULFATE
0.27U	UG/L	CHLORDANE (TECH. MIXTURE) /1
1.2U	UG/L	PCB-1242 (AROCLOR 1242)
1.2U	UG/L	PCB-1254 (AROCLOR 1254)
1.2U	UG/L	PCB-1221 (AROCLOR 1221)
1.2U	UG/L	PCB-1232 (AROCLOR 1232)
1.2U	UG/L	PCB-1248 (AROCLOR 1248)
1.2U	UG/L	PCB-1260 (AROCLOR 1260)
1.2U	UG/L	PCB-1016 (AROCLOR 1016)
3.0U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.31U	UG/L	METHOXYCHLOR
0.17U	UG/L	ENDRIN KETONE

****

FOOTNOTES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
1. *WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14702 SAM LE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-SF SPRING WATER
STOREI STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 925
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM B BENOY
SAMPLE RECID: DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.020U	UG/L	ALDRIN
0.020U	UG/L	HEPTACHLOR
0.073	UG/L	HEPTACHLOR EPOXIDE
0.020U	UG/L	ALPHA-BHC
0.020U	UG/L	BETA-BHC
0.020U	UG/L	GAMMA-BHC (LINDANE)
0.020U	UG/L	DELTA-BHC
0.094U	UG/L	ENDOSULFAN I (ALPHA)
0.094	UG/L	DIELDRIN
0.055U	UG/L	4,4'-DDT (P,P'-DDT)
0.055U	UG/L	4,4'-DDE (P,P'-DDE)
0.055U	UG/L	4,4'-DDD (P,P'-DDD)
0.045U	UG/L	ENDRIN
0.055U	UG/L	ENDOSULFAN II (BETA)
0.086U	UG/L	ENDOSULFAN SULFATE
0.19U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.570	UG/L	PCB-1242 (AROCLOR 1242)
0.570	UG/L	PCB-1254 (AROCLOR 1254)
0.570	UG/L	PCB-1221 (AROCLOR 1221)
0.570	UG/L	PCB-1232 (AROCLOR 1232)
0.570	UG/L	PCB-1248 (AROCLOR 1248)
0.570	UG/L	PCB-1260 (AROCLOR 1260)
0.570	UG/L	PCB-1016 (AROCLOR 1016)
1.5U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.17U	UG/L	METHOXYCHLOR
0.086U	UG/L	ENDRIN KETONE

****

FOOTNOTE(S)
*A=AVERAGE VALUE *NA=NOT ANALYZED *I=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENC OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN V LUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETEC ED, THE NUMBER IS
THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDAN CONSTITUENTS.
2. CONSTITUENTS OF METABOLITES OF TECHNICA CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14703 SAM LE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOY RECEIVED FROM R BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.046U	UG/L	ALDRIN
0.046U	UG/L	HEPTACHLOR
0.032A	UG/L	HEPTACHLOR EPOXIDE
0.013U	UG/L	ALPHA-BHC
0.046U	UG/L	BETA-BHC
0.046U	UG/L	GAMMA-BHC (LINDANE)
0.046U	UG/L	DELTA-BHC
0.057U	UG/L	ENDOSULFAN I (ALPHA)
0.057A	UG/L	DIELDRIN
0.12U	UG/L	4,4'-DDT (P,P'-DDT)
0.12U	UG/L	4,4'-DDE (P,P'-DDE)
0.12U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.12U	UG/L	ENDOSULFAN II (BETA)
0.19U	UG/L	ENDOSULFAN SULFATE
--	UG/L	CHLORDANE (TECH. MIXTURE) /1
1.3U	UG/L	PCB-1242 (AROCLOR 1242)
1.3U	UG/L	PCB-1254 (AROCLOR 1254)
1.3U	UG/L	PCB-1221 (AROCLOR 1221)
1.3U	UG/L	PCB-1232 (AROCLOR 1232)
1.3U	UG/L	PCB-1248 (AROCLOR 1248)
1.3U	UG/L	PCB-1260 (AROCLOR 1260)
1.3U	UG/L	PCB-1016 (AROCLOR 1016)
3.4U	UG/L	TOXAPHENE
0.051U	UG/L	CHLORDENE /2
0.051U	UG/L	ALPHA-CHLORDENE /2
0.057U	UG/L	BETA CHLORDENE /2
0.057U	UG/L	GAMMA-CHLORDENE /2
0.070A	UG/L	1-HYDROXYCHLORDENE /2
0.051U	UG/L	GAMMA-CHLORDANE /2
0.051U	UG/L	TRANS-NONACHLOR /2
0.051U	UG/L	ALPHA-CHLORDANE /2
0.051U	UG/L	CIS-NONACHLOR /2
0.35U	UG/L	METHOXYCHLOR
0.19U	UG/L	ENDRIN KETONE

****

FOOTNOTES
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THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDAN CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICA CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14708 SAM LE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-13W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM B BENOY
SAMPLE RECT: DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOC VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.014U	UG/L	ALDRIN
0.014U	UG/L	HEPTACHLOR
0.014U	UG/L	HEPTACHLOR EPOXIDE
0.011U	UG/L	ALPHA-BHC
0.017U	UG/L	BETA-BHC
0.014U	UG/L	GAMMA-BHC (LINDANE)
0.014U	UG/L	DELTA-BHC
0.022U	UG/L	ENDOSULFAN I (ALPHA)
0.022U	UG/L	DIELDRIN
0.055U	UG/L	4,4'-DDT (P,P'-DDT)
0.055U	UG/L	4,4'-DDE (P,P'-DDE)
0.055U	UG/L	4,4'-DDD (P,P'-DDD)
0.022U	UG/L	ENDRIN
0.055U	UG/L	ENDOSULFAN II (BETA)
0.086U	UG/L	ENDOSULFAN SULFATE
0.17U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.39U	UG/L	PCB-1242 (AROCLOR 1242)
0.39U	UG/L	PCB-1254 (AROCLOR 1254)
0.39U	UG/L	PCB-1221 (AROCLOR 1221)
0.39U	UG/L	PCB-1232 (AROCLOR 1232)
0.39U	UG/L	PCB-1248 (AROCLOR 1248)
0.39U	UG/L	PCB-1260 (AROCLOR 1260)
0.39U	UG/L	PCB-1016 (AROCLOR 1016)
1.5U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.16U	UG/L	METHOXYCHLOR
0.086U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N I-INTERFERENCES
*J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENC OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN V LUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETEC ED, THE NUMBER IS
THE MINIMUM QUANTITATION LIMIT.
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2. CONSTITUENTS OF METABOLITES OF TECHNICA CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14710 SAM LE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4F LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 325
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM B BENOY
SAMPLE RECVD: DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.014U	UG/L	ALDRIN
0.014U	UG/L	HEPTACHLOR
0.014U	UG/L	HEPTACHLOR EPOXIDE
0.014U	UG/L	ALPHA-BHC
0.014U	UG/L	BETA-BHC
0.014U	UG/L	GAMMA-BHC (LINDANE)
0.014U	UG/L	DELTA-BHC
0.022U	UG/L	ENDOSULFAN I (ALPHA)
0.022U	UG/L	DIELDRIN
0.055U	UG/L	4,4'-DDT (P,P'-DDT)
0.055U	UG/L	4,4'-DDE (P,P'-DDE)
0.055U	UG/L	4,4'-DDD (P,P'-DDD)
0.022U	UG/L	ENDRIN
0.055U	UG/L	ENDOSULFAN II (BETA)
0.086U	UG/L	ENDOSULFAN SULFATE
0.17U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.39U	UG/L	PCB-1242 (AROCLOR 1242)
0.39U	UG/L	PCB-1254 (AROCLOR 1254)
0.39U	UG/L	PCB-1221 (AROCLOR 1221)
0.39U	UG/L	PCB-1232 (AROCLOR 1232)
0.39U	UG/L	PCB-1248 (AROCLOR 1248)
0.39U	UG/L	PCB-1260 (AROCLOR 1260)
0.39U	UG/L	PCB-1016 (AROCLOR 1016)
1.5U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.16U	UG/L	METHOXYCHLOR
0.086U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *R 1=INTERFERENCES
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*U=MATERIAL WAS ANALYZED FOR BUT NOT DETEC ED, THE NUMBER IS
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2. CONSTITUENTS OF METABOLITES OF TECHNICA CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14711 SAM LE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW1 MONWL #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 500
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.023U	UG/L	ALDRIN
0.023U	UG/L	HEPTACHLOR
0.023U	UG/L	HEPTACHLOR EPOXIDE
0.023U	UG/L	ALPHA-BHC
0.023U	UG/L	BETA-BHC
0.023U	UG/L	GAMMA-BHC (LINDANE)
0.023U	UG/L	DELTA-BHC
0.045K	UG/L	ENDOSULFAN I (ALPHA)
0.029U	UG/L	DIELDRIN
0.055U	UG/L	4,4'-DDT (P,P'-DDT)
0.055U	UG/L	4,4'-DDE (P,P'-DDE)
0.055U	UG/L	4,4'-DDD (P,P'-DDD)
0.055U	UG/L	ENDRIN
0.055U	UG/L	ENDOSULFAN II (BETA)
0.086U	UG/L	ENDOSULFAN SULFATE
0.28U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.55U	UG/L	PCB-1242 (AROCLOR 1242)
0.55U	UG/L	PCB-1254 (AROCLOR 1254)
0.55U	UG/L	PCB-1221 (AROCLOR 1221)
0.55U	UG/L	PCB-1232 (AROCLOR 1232)
0.55U	UG/L	PCB-1248 (AROCLOR 1248)
0.55U	UG/L	PCB-1260 (AROCLOR 1260)
0.55U	UG/L	PCB-1016 (AROCLOR 1016)
1.5U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.16U	UG/L	METHOXYCHLOR
0.086U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N I-INTERFERENCES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN V LUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETEC ED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDAN CONSTITUENTS.
2. CONSTITUENTS OF METABOLITES OF TECHNICA CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-EBD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 555
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM B BENOY
SAMPLE RECD: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: JAR
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOC VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.021U	UG/L	ALDRIN
0.021U	UG/L	HEPTACHLOR
0.021U	UG/L	HEPTACHLOR EPOXIDE
0.038U	UG/L	ALPHA-BHC
0.021U	UG/L	BETA-BHC
0.021U	UG/L	GAMMA-BHC (LINDANE)
0.021U	UG/L	DELTA-BHC
0.042U	UG/L	ENDOSULFAN I (ALPHA)
0.034U	UG/L	DIELDRIN
0.082U	UG/L	4,4'-DDT (P,P'-DDT)
0.082U	UG/L	4,4'-DDE (P,P'-DDE)
0.082U	UG/L	4,4'-DDD (P,P'-DDD)
0.034U	UG/L	ENDRIN
0.082U	UG/L	ENDOSULFAN II (BETA)
0.13U	UG/L	ENDOSULFAN SULFATE
0.18U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.46U	UG/L	PCB-1242 (AROCLOR 1242)
0.50U	UG/L	PCB-1254 (AROCLOR 1254)
0.46U	UG/L	PCB-1221 (AROCLOR 1221)
0.46U	UG/L	PCB-1232 (AROCLOR 1232)
0.46U	UG/L	PCB-1248 (AROCLOR 1248)
0.50U	UG/L	PCB-1260 (AROCLOR 1260)
0.46U	UG/L	PCB-1016 (AROCLOR 1016)
1.5U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.16U	UG/L	METHOXYCHLOR
0.13U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A-AVERAGE VALUE *ND-NOT ANALYZED *I-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14713 SAM LE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STOREI STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM B BENOY
SAMPLE RECEIVED DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SEALED: YES

CHEMIST: LAB
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WPP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
0.023U	UG/L	ALDRIN	
0.023U	UG/L	HEPTACHLOR	
0.023U	UG/L	HEPTACHLOR EPOXIDE	
0.019U	UG/L	ALPHA-BHC	
0.023U	UG/L	BETA-BHC	
0.023U	UG/L	GAMMA-BHC (LINDANE)	
0.023U	UG/L	DELTA-BHC	
0.034U	UG/L	ENDOSULFAN I (ALPHA)	
0.034U	UG/L	DIELDRIN	
0.055U	UG/L	4,4'-DDT (P,P'-DDT)	
0.055U	UG/L	4,4'-DDE (P,P'-DDE)	
0.055U	UG/L	4,4'-DDD (P,P'-DDD)	
0.034U	UG/L	ENDRIN	
0.055U	UG/L	ENDOSULFAN II (BETA)	
0.086U	UG/L	ENDOSULFAN SULFATE	
0.17U	UG/L	CHLORDANE (TECH. MIXTURE)	/1
0.39U	UG/L	PCB-1242 (AROCLOR 1242)	
0.39U	UG/L	PCB-1254 (AROCLOR 1254)	
0.39U	UG/L	PCB-1221 (AROCLOR 1221)	
0.39U	UG/L	PCB-1232 (AROCLOR 1232)	
0.39U	UG/L	PCB-1248 (AROCLOR 1248)	
0.39U	UG/L	PCB-1260 (AROCLOR 1260)	
0.39U	UG/L	PCB-1016 (AROCLOR 1016)	
1.5U	UG/L	TOXAPHENE	
--	UG/L	CHLORDENE /2	
--	UG/L	ALPHA-CHLORDENE /2	
--	UG/L	BETA CHLORDENE /2	
--	UG/L	GAMMA-CHLORDENE /2	
--	UG/L	1-HYDROXYCHLORDENE /2	
--	UG/L	GAMMA-CHLORDANE /2	
--	UG/L	TRANS-NONACHLOR /2	
--	UG/L	ALPHA-CHLORDANE /2	
--	UG/L	CIS-NONACHLOR /2	
0.160	UG/L	METHOXYCHLOR	
0.086U	UG/L	ENDRIN KETONE	

****

FOOTNOTES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN V LUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETEC ED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDAN CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNIC/ CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMEN SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/08/87 PESTICIDES/PCB'S AND OTHER CHLORINA ED COMPOUNDS
WATER

SAMPLE NO.: 87C14714 SAM LE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: ALCOADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW4 MONWL #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 200
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R REDDY RECEIVED FROM R REDDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC D BY: D COLQUITT
SCALED: YES

CHEMIST: JAI
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: JAR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.014U	UG/L	ALDRIN
0.014U	UG/L	HEPTACHLOR
0.014U	UG/L	HEPTACHLOR EPOXIDE
0.014U	UG/L	ALPHA-BHC
0.014U	UG/L	BETA-BHC
0.014U	UG/L	GAMMA-BHC (LINDANE)
0.014U	UG/L	DELTA-BHC
0.022U	UG/L	ENDOSULFAN I (ALPHA)
0.022U	UG/L	DIELDRIN
0.055U	UG/L	4,4'-DDT (P,P'-DDT)
0.055U	UG/L	4,4'-DDE (P,P'-DDE)
0.055U	UG/L	4,4'-DDD (P,P'-DDD)
0.022U	UG/L	ENDRIN
0.055U	UG/L	ENDOSULFAN II (BETA)
0.086U	UG/L	ENDOSULFAN SULFATE
0.170	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.390U	UG/L	PCB-1242 (AROCLOR 1242)
0.390U	UG/L	PCB-1254 (AROCLOR 1254)
0.390U	UG/L	PCB-1221 (AROCLOR 1221)
0.390U	UG/L	PCB-1232 (AROCLOR 1232)
0.390U	UG/L	PCB-1248 (AROCLOR 1248)
0.390U	UG/L	PCB-1260 (AROCLOR 1260)
0.390U	UG/L	PCB-1016 (AROCLOR 1016)
1.5U	UG/L	TOXAPHENE
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	BETA CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.16U	UG/L	METHOXYCHLOR
0.086U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *R I=INTERFERENCES
*J=ESTIMATED VALUE *P=PRESUMPTIVE EVIDENC OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN V LUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETEC ED, THE NUMBER IS
THE MINIMUM QUANTITATION LIMIT.
1. *HEN NO VALUE IS REPORTED, SEE CHLORDAN CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICA CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14713 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
190	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
42	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
22	UG/L	NICKEL
50U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
510	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
240	UG/L	TITANIUM
NA	UG/L	THALLIUM
52	UG/L	VANADIUM
43	UG/L	YTTRIUM
130	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
26000	UG/L	ALUMINUM
1500	UG/L	MANGANESE
140	MG/L	CALCIUM
7.2	MG/L	MAGNESIUM
17	MG/L	IRON
120	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1555
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
10U	UG/L	ARSENIC
NA	UG/L	BORON
200	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
40J	UG/L	COBALT
10	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
30U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
61	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
77	UG/L	TITANIUM
NA	UG/L	THALLIUM
16	UG/L	VANADIUM
24	UG/L	YTTRIUM
440	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
5300	UG/L	ALUMINUM
6400	UG/L	MANGANESE
22	MG/L	CALCIUM
6.8	MG/L	MAGNESIUM
42	MG/L	IRON
32	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14711 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW1 MONWL #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1500
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
410	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
16	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
30U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
140	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
62	UG/L	TITANIUM
NA	UG/L	THALLIUM
12	UG/L	VANADIUM
13	UG/L	YTTRIUM
55	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
8700	UG/L	ALUMINUM
4000	UG/L	MANGANESE
81	MG/L	CALCIUM
9.6	MG/L	MAGNESIUM
3.7	MG/L	IRON
20	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14710 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4W LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1325
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
53	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
10U	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
10U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
50	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
68	UG/L	TITANIUM
NA	UG/L	THALLIUM
12	UG/L	VANADIUM
10U	UG/L	YTTRIUM
42	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
5300	UG/L	ALUMINUM
140	UG/L	MANGANESE
26	MG/L	CALCIUM
2.1	MG/L	MAGNESIUM
6.3	MG/L	IRON
3.9	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL HAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14708 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: 65F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
72	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
10U	UG/L	CHROMIUM
260	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
30U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
42	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
100	UG/L	TITANIUM
NA	UG/L	THALLIUM
16	UG/L	VANADIUM
10U	UG/L	YTTRIUM
120	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
8400	UG/L	ALUMINUM
100	UG/L	MANGANESE
21	MG/L	CALCIUM
2.7	MG/L	MAGNESIUM
6.9	MG/L	IRON
1.0U	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14703 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: 88F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
46.	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
10U	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
30U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
110	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
10U	UG/L	TITANIUM
NA	UG/L	THALLIUM
10U	UG/L	VANADIUM
10U	UG/L	YTTRIUM
22	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
210	UG/L	ALUMINUM
120	UG/L	MANGANESE
55.	MG/L	CALCIUM
3.4	MG/L	MAGNESIUM
0.45	MG/L	IRON
7.3	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14702 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: S&F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW SPRING WATER
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0925
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
34	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
10U	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
30U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
100	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
10U	UG/L	TITANIUM
NA	UG/L	THALLIUM
10U	UG/L	VANADIUM
10U	UG/L	YTTRIUM
10U	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.2U	UG/L	MERCURY
100U	UG/L	ALUMINUM
34	UG/L	MANGANESE
65	MG/L	CALCIUM
2.9	MG/L	MAGNESIUM
0.10U	MG/L	IRON
3.8	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: S8F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
10U	UG/L	SILVER
30U	UG/L	ARSENIC
NA	UG/L	BORON
36	UG/L	BARIUM
10U	UG/L	BERYLLIUM
10U	UG/L	CADMIUM
20U	UG/L	COBALT
10U	UG/L	CHROMIUM
10U	UG/L	COPPER
20U	UG/L	MOLYBDENUM
20U	UG/L	NICKEL
30U	UG/L	LEAD
30U	UG/L	ANTIMONY
40U	UG/L	SELENIUM
100U	UG/L	TIN
90	UG/L	STRONTIUM
40U	UG/L	TELLURIUM
10U	UG/L	TITANIUM
NA	UG/L	THALLIUM
10U	UG/L	VANADIUM
10U	UG/L	YTTRIUM
37	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.20U	UG/L	MERCURY
320	UG/L	ALUMINUM
98	UG/L	MANGANESE
52	MG/L	CALCIUM
2.8	MG/L	MAGNESIUM
0.28	MG/L	IRON
8.6	MG/L	SODIUM
NA	MG/L	POTASSIUM

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14699 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: ADQADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDW UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0900
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATEPIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14702 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW SPRING WATER
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0925
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14703 SAMPLE TYPE: AMBWA

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DW DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1000
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-E&D,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14708 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3W LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1120
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.004U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14710 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4W LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1345
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

	RESULTS	UNITS	PARAMETER	STORET
	0.003	MG/L	CYANIDE	00720

1, 01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14711 SAMPLE TYPE: MONWL

R PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
O SOURCE: AQUADOME
I CITY: DECATUR STATE: AL

T STATION I.D.: AD-MW1 MONWL #1
T STORET STATION NO:

A SAMPLE COLLECTION: START DATE/TIME 12/10/86 1500
A SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

O COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
A SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
E SEALED: YES

H CHEMIST: RLQ CHEMIST:
N ANALYTICAL METHOD:

E REMARK:
E REMARK:

A SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

* ***REMARKS***

* **********

* ***FOOTNOTES***
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14712 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW2 MONWL #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1555
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87C14713 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW3 MONWL #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1030
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-R&D REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.002U	MG/L	CYANIDE	00720

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
WATER

SAMPLE NO.: 87CI4714 SAMPLE TYPE: MONWL

PROJECT NO.: 87-069 PROGRAM ELEMENT: 68F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW4 MONWL #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/11/86 1200
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/19/87 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87014707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-059 PROGRAM ELEMENT: SSF
SOURCE: AQUADYNE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
25JJ	UG/KG	CHLOROMETHANE
25JJ	UG/KG	BROMOMETHANE
25JJ	UG/KG	VINYL CHLORIDE
25JJ	UG/KG	CHLOROETHANE
25JJ	UG/KG	METHYLENE CHLORIDE
25JJ	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
25JJ	UG/KG	1,1-DICHLOROETHANE
25JJ	UG/KG	TRANS-1,2-DICHLOROETHENE
25JJ	UG/KG	CHLOROFORM
25JJ	UG/KG	1,2-DICHLOROETHANE
25JJ	UG/KG	1,1,1-TRICHLOROETHANE
25JJ	UG/KG	CARBON TETRACHLORIDE
3.5J	UG/KG	BROMODICHLOROMETHANE
25JJ	UG/KG	1,2-DICHLOROPROPANE
50JJ	UG/KG	TRANS-1,3-DICHLOROPROPENE
25JJ	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
25JJ	UG/KG	BENZENE
25JJ	UG/KG	DIBROMOCHLOROMETHANE
25JJ	UG/KG	1,1,2-TRICHLOROETHANE
50JJ	UG/KG	CIS-1,3-DICHLOROPROPENE
50JJ	UG/KG	2-CHLOROETHYLVINYL ETHER
25JJ	UG/KG	BROMOFORM
25JJ	UG/KG	1,1,2,2-TETRACHLOROETHANE
25JJ	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
33J	UG/KG	TOLUENE
25JJ	UG/KG	CHLOROBENZENE
25JJ	UG/KG	ETHYL BENZENE
33J	UG/KG	TOTAL XYLENES
30	%	MOISTURE

****

FOOTNOTES
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/19/87 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87014707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADYNE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENDY RECEIVED FROM: R BENDY
SAMPLE RECD: DATE/TIME 12/12/86 1000 RECD BY: D COGOUIFF
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: KFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
500J	ACETONE
250JJ	METHYL ETHYL KETONE
250JJ	CARBON DISULFIDE
250JJ	METHYL BUTYL KETONE
250JJ	METHYL ISOBUTYL KETONE
250JJ	STYRENE
250JJ	VINYL ACETATE
2000J	TOTAL UNIDENTIFIED ALKYLHYDROCARBONS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

03/19/87 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14709 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-059 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-G4 LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1330
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE RECD: DATE/TIME 12/12/86 1000 RECD BY: D COGGUILL
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WPP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
28 J	UG/KG	CHLOROMETHANE
28 J	UG/KG	BROMOMETHANE
28 J	UG/KG	VINYL CHLORIDE
28 J	UG/KG	CHLOROETHANE
28 J	UG/KG	METHYLENE CHLORIDE
28 J	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
28 J	UG/KG	1,1-DICHLOROETHANE
28 J	UG/KG	TRANS-1,2-DICHLOROETHENE
28 J	UG/KG	CHLOROFORM
28 J	UG/KG	1,2-DICHLOROETHANE
28 J	UG/KG	1,1,1-TRICHLOROETHANE
28 J	UG/KG	CARBON TETRACHLORIDE
28 J	UG/KG	BROMODICHLOROMETHANE
28 J	UG/KG	1,2-DICHLOROPROPANE
56 J	UG/KG	TRANS-1,3-DICHLOROPROPENE
28 J	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
28 J	UG/KG	BENZENE
28 J	UG/KG	DIBROMOCHLOROMETHANE
28 J	UG/KG	1,1,2-TRICHLOROETHANE
56 J	UG/KG	CIS-1,3-DICHLOROPROPENE
56 J	UG/KG	2-CHLOROETHYLVINYL ETHER
28 J	UG/KG	BROMOFORM
28 J	UG/KG	1,1,2,2-TETRACHLOROETHANE
28 J	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
28 J	UG/KG	TOLUENE
28 J	UG/KG	CHLOROBENZENE
28 J	UG/KG	ETHYL BENZENE
28 J	UG/KG	TOTAL XYLENES
31	%	MOISTURE

****

FOOTNOTES
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/19/87 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14709 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: ADDADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-04 LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1330
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WPP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
280J	ACETONE
280J	METHYL ETHYL KETONE
280J	CARBON DISULFIDE
280J	METHYL BUTYL KETONE
280J	METHYL ISOBUTYL KETONE
280J	STYRENE
280J	VINYL ACETATE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14706 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: LOUDOGLE
CITY: DECATUR STATE: AL

STATION I.D.: AC-L2 LEACHATE #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1110
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE RECVD: DATE/TIME 12/12/86 1000 RECVD BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: MFP DATA VERIFIED BY: FRA

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
110000U	ACETONE
110000U	METHYL ETHYL KETONE
110000U	CARBON DISULFIDE
110000U	METHYL BUTYL KETONE
110000U	METHYL ISOBUTYL KETONE
110000U	STYRENE
110000U	VINYL ACETATE
70000J	TOTAL UNIDENTIFIED ALKYLHYDROCARBONS

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *P=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
180U	ACETONE
180U	METHYL ETHYL KETONE
180U	CARBON DISULFIDE
180U	METHYL BUTYL KETONE
180U	METHYL ISOBUTYL KETONE
180U	STYRENE
180U	VINYL ACETATE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
140U	ACETONE
140U	METHYL ETHYL KETONE
140U	CARBON DISULFIDE
140U	METHYL BUTYL KETONE
140U	METHYL ISOBUTYL KETONE
140U	STYRENE
140U	VINYL ACETATE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NA1=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/06/87 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C147J0 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0940
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE,/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
170U	ACETONE
170U	METHYL ETHYL KETONE
170U	CARBON DISULFIDE
170U	METHYL BUTYL KETONE
170U	METHYL ISOBUTYL KETONE
170U	STYRENE
170U	VINYL ACETATE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED **AI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
18U	UG/KG	CHLOROMETHANE
18U	UG/KG	BROMOMETHANE
18U	UG/KG	VINYL CHLORIDE
18U	UG/KG	CHLOROETHANE
18U	UG/KG	METHYLENE CHLORIDE
18U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
2.5J	UG/KG	1,1-DICHLOROETHANE
18U	UG/KG	TRANS-1,2-DICHLOROETHENE
18U	UG/KG	CHLOROFORM
18U	UG/KG	1,2-DICHLOROETHANE
19	UG/KG	1,1,1-TRICHLOROETHANE
18U	UG/KG	CARBON TETRACHLORIDE
18U	UG/KG	BROMODICHLOROMETHANE
18U	UG/KG	1,2-DICHLOROPROPANE
36U	UG/KG	TRANS-1,3-DICHLOROPROPENE
4J	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
18U	UG/KG	BENZENE
18U	UG/KG	DIBROMOCHLOROMETHANE
18U	UG/KG	1,1,2-TRICHLOROETHANE
36U	UG/KG	CIS-1,3-DICHLOROPROPENE
36U	UG/KG	2-CHLOROETHYLVINYL ETHER
18U	UG/KG	BROMOFORM
18U	UG/KG	1,1,2,2-TETRACHLOROETHANE
2.3J	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
6.6J	UG/KG	TOLUENE
18U	UG/KG	CHLOROBENZENE
18U	UG/KG	ETHYL BENZENE
18U	UG/KG	TOTAL XYLENES
47	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: ACOADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1005
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
140U	UG/KG	CHLOROMETHANE
140U	UG/KG	BROMOMETHANE
140U	UG/KG	VINYL CHLORIDE
140U	UG/KG	CHLOROETHANE
140U	UG/KG	METHYLENE CHLORIDE
140U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
140U	UG/KG	1,1-DICHLOROETHANE
140U	UG/KG	TRANS-1,2-DICHLOROETHENE
140U	UG/KG	CHLOROFORM
140U	UG/KG	1,2-DICHLORDETHANE
140U	UG/KG	1,1,1-TRICHLOROETHANE
140U	UG/KG	CARBON TETRACHLORIDE
140U	UG/KG	BROMODICHLOROMETHANE
140U	UG/KG	1,2-DICHLOROPROPANE
280U	UG/KG	TRANS-1,3-DICHLOROPROPENE
140U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
140U	UG/KG	BENZENE
140U	UG/KG	DIBROMOCHLOROMETHANE
140U	UG/KG	1,1,2-TRICHLOROETHANE
280U	UG/KG	CIS-1,3-DICHLOROPROPENE
280U	UG/KG	2-CHLOROETHYLVINYL ETHER
140U	UG/KG	BROMOFORM
140U	UG/KG	1,1,2,2-TETRACHLOROETHANE
140U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
140U	UG/KG	TOLUENE
140U	UG/KG	CHLOROBENZENE
140U	UG/KG	ETHYL BENZENE
140U	UG/KG	TOTAL XYLENES
19	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

03/05/87

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14700 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AUGIDOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0940
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: FRA
ANALYTICAL METHOD:

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
17U	UG/KG	CHLOROMETHANE
17U	UG/KG	BROMOMETHANE
17U	UG/KG	VINYL CHLORIDE
17U	UG/KG	CHLOROETHANE
17U	UG/KG	METHYLENE CHLORIDE
17U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
17U	UG/KG	1,1-DICHLOROETHANE
17U	UG/KG	TRANS-1,2-DICHLOROETHENE
17U	UG/KG	CHLOROFORM
17U	UG/KG	1,2-DICHLOROETHANE
17U	UG/KG	1,1,1-TRICHLOROETHANE
17U	UG/KG	CARBON TETRACHLORIDE
17U	UG/KG	BROMODICHLOROMETHANE
17U	UG/KG	1,2-DICHLOROPROPANE
34U	UG/KG	TRANS-1,3-DICHLOROPROPENE
17U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
17U	UG/KG	BENZENE
17U	UG/KG	DIBROMOCHLOROMETHANE
17U	UG/KG	1,1,2-TRICHLOROETHANE
34U	UG/KG	CIS-1,3-DICHLOROPROPENE
34U	UG/KG	2-CHLOROETHYLVINYL ETHER
17U	UG/KG	BROMOFORM
17U	UG/KG	1,1,2,2-TETRACHLOROETHANE
17U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
23	UG/KG	TOLUENE
17U	UG/KG	CHLOROBENZENE
2.1J	UG/KG	ETHYL BENZENE
18	UG/KG	TOTAL XYLENES
47	%	MOISTURE

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: FRA

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.14U	MG/KG	CYANIDE	00721

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14709 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4 LEACHATE #4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1330
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.83	MG/KG	CYANIDE	00721

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,RPC IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.13U	MG/KG	CYANIDE	00721

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14706 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2 LEACHATE #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1110
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.82	MG/KG	CYANIDE	00721

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-R&D,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.39J	MG/KG	CYANIDE	00721

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AGUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1005
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-R&D,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.82	MG/KG	CYANIDE	00721

01/20/87

SPECIFIED ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87CI4700 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0920
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: RLQ CHEMIST:
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP DATA VERIFIED BY: RLQ

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14700 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD=UDS UPSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 0920
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDY RECEIVED FROM: B BENDY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
3U	MG/KG	SILVER
8U	MG/KG	ARSENIC
NA	MG/KG	BORON
78	MG/KG	BARIUM
3U	MG/KG	BERYLLIUM
1U	MG/KG	CADMIUM
6U	MG/KG	COBALT
34	MG/KG	CHROMIUM
21	MG/KG	COPPER
6U	MG/KG	MOLYBDENUM
8.7	MG/KG	NICKEL
280	MG/KG	LEAD
9U	MG/KG	ANTIMONY
12U	MG/KG	SELENIUM
30U	MG/KG	TIN
77	MG/KG	STRONTIUM
12U	MG/KG	TELLURIUM
93	MG/KG	TITANIUM
NA	MG/KG	THALLIUM
38	MG/KG	VANADIUM
9.0	MG/KG	YTTRIUM
210	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.05U	MG/KG	MERCURY
12000	MG/KG	ALUMINUM
560	MG/KG	MANGANESE
66000	MG/KG	CALCIUM
2100	MG/KG	MAGNESIUM
18000	MG/KG	IRON
300U	MG/KG	SODIUM
NA	MG/KG	POTASSIUM
49	%	MOISTURE

REMARKS

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FOOTNOTES
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*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14704 SAMPLE TYPE: SEDIM

PROJECT NO.: 87-069 PROGRAM ELEMENT: 58F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS DOWNSTREAM DRAINAGE
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1005
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
7U	MG/KG	SILVER
21U	MG/KG	ARSENIC
NA	MG/KG	BORON
14U	MG/KG	BARIUM
7U	MG/KG	BERYLLIUM
7U	MG/KG	CADMIUM
14U	MG/KG	COBALT
19	MG/KG	CHROMIUM
36	MG/KG	COPPER
14U	MG/KG	MOLYBDENUM
14U	MG/KG	NICKEL
21	MG/KG	LEAD
21U	MG/KG	ANTIMONY
28U	MG/KG	SELENIUM
70U	MG/KG	TIN
160	MG/KG	STRONTIUM
28U	MG/KG	TELLURIUM
28	MG/KG	TITANIUM
NA	MG/KG	THALLIUM
14	MG/KG	VANADIUM
7U	MG/KG	YTTRIUM
41	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.05U	MG/KG	MERCURY
870	MG/KG	ALUMINUM
110	MG/KG	MANGANESE
160000	MG/KG	CALCIUM
3100	MG/KG	MAGNESIUM
9600	MG/KG	IRON
700U	MG/KG	SODIUM
NA	MG/KG	POTASSIUM
18	%	MOISTURE

****

FOOTNOTES
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*J=ESTIMATED VALUE. *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14705 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: SSF
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: ADL-L1 LEACHATE #1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1045
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
3U	MG/KG	SILVER
9U	MG/KG	ARSENIC
NA	MG/KG	BORON
48	MG/KG	BARIUM
3U	MG/KG	BERYLLIUM
3U	MG/KG	CADMIUM
6U	MG/KG	COBALT
33	MG/KG	CHROMIUM
20	MG/KG	COPPER
6U	MG/KG	MOLYBDENUM
7.2	MG/KG	NICKEL
86	MG/KG	LEAD
9U	MG/KG	ANTIMONY
12U	MG/KG	SELENIUM
30U	MG/KG	TIN
66	MG/KG	STRONTIUM
12U	MG/KG	TELLURIUM
100	MG/KG	TITANIUM
NA	MG/KG	THALLIUM
42	MG/KG	VANADIUM
9.0	MG/KG	YTTRIUM
370	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.05U	MG/KG	MERCURY
14000	MG/KG	ALUMINUM
480	MG/KG	MANGANESE
52000	MG/KG	CALCIUM
1700	MG/KG	MAGNESIUM
20000	MG/KG	IRON
300U	MG/KG	SODIUM
NA	MG/KG	POTASSIUM
45	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14706 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: 88F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2 LEACHATE #2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1110
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
2U	MG/KG	SILVER
6U	MG/KG	ARSENIC
NA	MG/KG	BORON
30	MG/KG	BARIUM
2U	MG/KG	BERYLLIUM
2U	MG/KG	CADMIUM
4U	MG/KG	COBALT
8.4	MG/KG	CHROMIUM
480	MG/KG	COPPER
4U	MG/KG	MOLYBDENUM
6.0	MG/KG	NICKEL
14	MG/KG	LEAD
6U	MG/KG	ANTIMONY
8U	MG/KG	SELENIUM
20U	MG/KG	TIN
4.4	MG/KG	STRONTIUM
8U	MG/KG	TELLURIUM
100	MG/KG	TITANIUM
NA	MG/KG	THALLIUM
9.0	MG/KG	VANADIUM
3.2	MG/KG	YTTRIUM
89	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.05U	MG/KG	MERCURY
4200	MG/KG	ALUMINUM
48	MG/KG	MANGANESE
1500	MG/KG	CALCIUM
320	MG/KG	MAGNESIUM
5600	MG/KG	IRON
200U	MG/KG	SODIUM
NA	MG/KG	POTASSIUM
22	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

01/06/87

METALS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 87C14707 SAMPLE TYPE: LEACHATE

PROJECT NO.: 87-069 PROGRAM ELEMENT: 88F
SOURCE: AQUADOME
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3 LEACHATE #3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 12/10/86 1115
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOY RECEIVED FROM: B BENOY
SAMPLE REC'D: DATE/TIME 12/12/86 1000 REC'D BY: D COLQUITT
SEALED: YES

CHEMIST: MAW
ANALYTICAL METHOD:

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: WFP SAMPLE DATA VERIFIED BY: MAW

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	ELEMENT
200U	MG/KG	SILVER
100U	MG/KG	ARSENIC
NA	MG/KG	BORON
840	MG/KG	BARIUM
100U	MG/KG	BERYLLIUM
100U	MG/KG	CADMIUM
200U	MG/KG	COBALT
240	MG/KG	CHROMIUM
91000	MG/KG	COPPER
200U	MG/KG	MOLYBDENUM
380	MG/KG	NICKEL
880	MG/KG	LEAD
300U	MG/KG	ANTIMONY
400U	MG/KG	SELENIUM
1000U	MG/KG	TIN
100U	MG/KG	STRONTIUM
400U	MG/KG	TELLURIUM
260	MG/KG	TITANIUM
NA	MG/KG	THALLIUM
100U	MG/KG	VANADIUM
100U	MG/KG	YTTRIUM
7900	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.05U	MG/KG	MERCURY
40000	MG/KG	ALUMINUM
520	MG/KG	MANGANESE
21000	MG/KG	CALCIUM
9600	MG/KG	MAGNESIUM
82000	MG/KG	IRON
100000U	MG/KG	SODIUM
NA	MG/KG	POTASSIUM
40	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

06-02-87

ENVIRONMENTAL PROTECTION AGENCY

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	12	BENOY,	4.0
		TOTAL		SFSITENO	4.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Kay Strickland 6/19/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

Aguadome
Kay Strickland

ANUM	T.A. NUMBER	TRAVELERS NAME	CITY NAME	ST	DCR NBR	START DATE	ENDING DATE	OBLIG. AMOUNT	DISB. AMOUNT	ADJUSTED AMOUNT
NSFA04D82Z	1163730	BENOY, BARBARA	DECATUR	AL	DBBE05	12/08/86	12/11/86		173.79	173.79
	1163732	BELLVILLE, KEITH	DECATUR	AL	DBEL04	12/08/86	12/11/86		150.00	150.00
	1163733	BOYLE, PATRICK	DECATUR	AL	DBOY05	12/08/86	12/11/86		151.99	151.99
	1157542	STRICKLAND, RAY	DECATUR	AL	DRST05	12/08/86	12/10/86		100.00	100.00
*TOTAL ANUM NSFA04D82Z									575.78	575.78

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Ray Strickland 4/21/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

Ray Strickland

Aquadome

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	N	U	09	STEPHEN	14.0
		TOTAL SFSITENO			14.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: _____ 5/7/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	N	8	05	BENOY,	29.0
		TOTAL	SFSITENO		29.0

Aquadome (Decatur)
Ray Stricker

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Ray Stricker 3/4/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	N	U	08	ALLEN,	3.0
04D	N	U	08	MCDANIE	2.0
04D	N	U	08	MELENDE	13.0
04D	N	U	08	MOSELEY	2.0
04D	N	U	08	PELTIER	21.0
04D	N	U	08	QUINN,	22.0
04D	N	U	08	RIOS, J	15.0
		TOTAL		SFSITENO	78.0

Aquadome
(Decatur)
Ray Strickland

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Ray L. Strickland 5/7/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	A C T Y	P P	PNAME	PAYR HOURS
04D	7	U	10	ALLEN,	3.0
04D	7	U	10	REVELL,	9.0
		TOTAL SFSITENO			12.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: _____ 5/7/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	N	8	06	BELLVIL	32.0
04D	N	8	06	BENOY,	38.0
04D	N	8	06	BOYLE,	31.0
04D	N	8	06	STRICKL	23.0
		TOTAL		SFSITENO	124.0

Aguadome
(Decatur)
Ray Strickland

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Ray Strickland 3/4/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	17	BENOY,	10.0
		TOTAL SFSITENO			10.0

Agaadome
Strickland, Ray

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: _____ 11/3/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	18	BENOY,	16.0
		TOTAL SFSITENO			16.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: /s/ [signature] 11/3/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	19	BENOY,	16.0
04D	7	8	19	MUNDRIC	2.0
		TOTAL SFSITENO			18.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: _____ 11/3/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
040	7	8	20	BENOY,	5.0
		TOTAL SFSITENO			5.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: _____ 11/3/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

ENVIRONMENTAL PROTECTION AGENCY

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	21	BENOY,	23.0
		TOTAL		SFSITENO	23.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Ray L. Stickland 11/5/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	22	MURPHY,	2.0
		TOTAL SFSITENO			2.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: [signature] PROJECT OFFICER 11/3/87 DATE

NOT CERTIFIED: _____ PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO 2Z

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	8	24	BENOY,	3.0
		TOTAL SFSITENO			3.0

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: Ray S. Strickland 11/3/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

PAYROLL REPORT FOR HAZ SUB RESP SITE

SFO 15
SFSITENO Y2

AH RC	SOF	ACTY	PP	PNAME	PAYR HOURS
04D	7	4	23	BYCOTT,	1.0
		TOTAL SFSITENO			1.0

Industrial Plastics of Louisville

I CERTIFY TO THE BEST OF MY KNOWLEDGE AND ABILITY THAT THE TRAVEL/PAYROLL CHARGES ATTACHED DID OCCUR AND WERE NECESSARY TO THE EPA CERCLA ACTIVITIES AT THIS SITE.

CERTIFIED: [signature] 11/3/87
PROJECT OFFICER DATE

NOT CERTIFIED: _____
PROJECT OFFICER DATE

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV, ATHENS, GEORGIA

DATE: DEC 01 1986

SUBJECT: Aquadome Site, Decatur, Alabama

FROM: Barbara Hansen Benoy, Env. Scien
Hazardous Waste Section

TO: Ray Strickland
ERCS

THRU: M. D. Lair, P.E., Chief
Hazardous Waste Section

The study plan for the Aquadome sampling study is attached. The main target of concern will be the drainage through the site and any leachate draining into this water system. Please contact me if you have any questions concerning the study.

Attachment

DEC 08 RECD

STUDY PLAN
AQUADOME SITE
DECATUR, ALABAMA
ESD PROJECT #87-069

INTRODUCTION

A sampling investigation will be conducted in support of a potential immediate removal at the Aquadome Site in Decatur, Alabama during the week of December 8, 1986, by personnel of the Hazardous Waste Section, Environmental Compliance Branch of the Environmental Services Division. The request was made by Ray Strickland of Region IV EPA, Emergency Response and Control Section, Atlanta, Georgia.

Previous sampling has been conducted by Region IV FIT. This investigation report is on file at the Regional Office.

OBJECTIVE

The objective of the sampling will be to determine whether or not there is a direct contact hazard present at the site. The area defined as the site includes a public softball park and indoor swimming pool. An elementary school is also located on the property.

SCOPE

Samples to be collected include ground water, surface water, sediment, soil and leachate samples. Full scan laboratory analyses will be conducted on all samples.

SCHEDULE

The field work will commence during the week of December 8, 1986. A tentative schedule of activities is presented as follows:

December 8 - Travel to Decatur, Alabama. Contact state and local personnel.

December 9 - Conduct ground water sampling of four permanent monitor wells located at the site. Conduct surface water and sediment sampling.

December 10 - Conduct leachate sampling.

December 11 - Return travel to Athens, GA.

Analytical results are expected to become available by February 2, 1987. The final report will be issued within 30 days after receipt of all analytical data.

METHODOLOGY

All aspects of this investigation will be conducted as defined by the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, April 1, 1986. Samples collected during this study will be relinquished to the Analytical Support Branch, ESD for analyses.

ANALYTICAL REQUIREMENTS

A total of 20 environmental samples has been tentatively identified. These samples include four ground water, four surface water, four sediment, four soil and four leachate samples. A list of samples and analyses required are tabulated below:

	Volatile Organic	Extractable Organic	Pesticides/ PCBs	Metals	Cyanide
Water	8	8	8	8	8
Soil/ Sediment	12	12	12	12	12

LOGISTICS

Four Branch personnel are scheduled for this field study:

Barbara Hansen Benoy	-	Project Leader
Charles Till	-	Crew member
Pat Boyle	-	Crew member
Keith Bellville	-	Crew member

R-586-4-6-11

SITE SAMPLING INVESTIGATION
AQUADOME SITE
MORGAN COUNTY
DECATUR, ALABAMA

Prepared Under
TDD NO. F4-8504-02
CONTRACT NO. 68-01-6699

Revision 0

FOR THE

AIR AND WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

APRIL 14, 1986

NUS CORPORATION
SUPERFUND DIVISION

Prepared By	Reviewed By	Approved By
Katharine Fenley Biologist	Philip Blackwell Assistant Regional Project Manager	Murray Warner, P.E. Regional Project Manager

NOTICE

The information in this document has been funded wholly by the United States Environmental Protection Agency (EPA) under Contract Number 68-01-6699 and is considered proprietary to the EPA.

This information is not to be released to third parties without the expressed written consent of the EPA or the NUS Corporation.

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SITE SAMPLING INVESTIGATION
AQUADOME SITE
DECATUR, ALABAMA

1.0 INTRODUCTION

The Region IV Field Investigation Team (FIT) of NUS Corporation conducted a site sampling investigation of the Aquadome Site during the week of April 22, 1985. The investigation was conducted at the request of the U.S. Environmental Protection Agency, Region IV, Air and Waste Management Division in accordance with Technical Directive Document (TDD) number F4-8504-02, under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA). Team members were Barbara Hansen Benoy, Project Manager, Phil Blackwell, Doug Munson, and Bob Donaghue of NUS Corporation.

2.0 SITE CHARACTERIZATION

2.1 Site Description

The Aquadome Site is located between 5th Avenue S.W. and 8th Street S.W. in Decatur, Alabama in Morgan County (Figure 1). The site is defined as an area of approximately 40 acres which was formerly a municipal landfill. Currently, Aquadome Park and Brookhaven Middle School are located on top of the fill area. Aquadome Park includes several athletic fields, a recreation building, and the Aquadome Pool. Current onsite facilities are depicted in Figure 2. Leachate from the landfill can be observed draining at several points into the drainage ditch which runs roughly west to east across the center of the property. In many areas, the leaching has caused erosion to occur, resulting in exposure of rubbish and discolored soil. North of the school, a section of concrete partially lines approximately 50 feet of the ditch. Water is normally flowing through this ditch, due to the fact that it is fed by a small spring. The spring enters the ditch by way of an underground pipe just inside the eastern boundary of the site. Aside from the partially lined area and the leachate points, the slopes of the ditch are vegetated with grass. The ditch drains into Dry Branch Creek, which is a tributary to the

Tennessee River. FIT members observed many depressed areas throughout the site where settling of the fill had occurred. It was noted that after rainfall events, several of the depressed areas held standing water. An oily sheen was present at some areas of standing water.

2.2 Site History

The former landfill at the Aquadome Site was owned and operated by the City of Decatur (Ref. 8). There are no records available to identify contributors to the landfill or to specify the date operation was initiated. It is known, however, that the facility was active for approximately 20 years and was used for open dumping and burning of wastes in trenches. There was no cap installed at the time of the landfill's closure in 1964. Construction of the school began in 1969; gas monitoring systems were installed in the existing school and recreation buildings shortly after their completion (Ref. 9). The gas monitoring systems have detected methane gas present up to 8% LEL outdoors and 2% LEL inside the Brookhaven Middle School building (Ref. 10). Four monitoring wells were installed in 1981 by Testing, Incorporated of Decatur. The State of Alabama Health Department periodically sampled these wells, as well as surface water onsite (Ref. 9).

2.3 Hydrogeology

The Aquadome Site is located in the Tennessee Valley district of the Interior Low Plateaus physiographic province. The topography in the vicinity of the site is typical of the Tennessee Valley district, having broad valleys and plateaus with elevations ranging between 500 and 600 feet above mean sea level. The climate is mild, as the average annual temperature is 61.0° F. Precipitation averages 50 inches annually with winter being the wettest season of the year (1).

The soil in the site vicinity consists of 20 - 30 feet of residual reddish-brown to gray silty clay loam of the Ooltewah and Cumberland Series. Although the soils are permeable, internal drainage is slow to the underlying bedrock and locally may result in the formation of intermittent ponds during the wet season (2).

Underlying the layer of soil is the Tuscumbia Limestone of Mississippian age. This formation is composed of a 180 foot thickness of light gray to olive-gray fine-to-coarse-grained clastic limestone. The limestone is thick bedded and contains nodules of bluish-gray chert. Beneath the Tuscumbia Limestone is the Ft. Payne Chert, which is comprised of 250 feet of limestone (50%), dolomite (25%), chert (20%), and shale. The Ft. Payne has been divided into three main units. The uppermost unit of the Ft. Payne is lithologically similar to the Tuscumbia; the only difference being that the limestone in the Ft. Payne was chemically precipitated and therefore is much finer grained than the Tuscumbia, which was a facies of clastic deposition. The middle unit of the Ft. Payne is classified as a very fine-grained silicified dolomitic limestone, and the lowermost unit is a very fine-grained partly silicified, partly calcareous dolomite and bluish-gray chert. Also included in the lower unit of the Ft. Payne is a six inch thick layer of greenish-gray shale (1).

Nearly all of the groundwater in the area is found within an extensive network of solution cavities developed in the Tuscumbia Limestone and the uppermost unit of the Ft. Payne Chert. The cavities are secondary, formed by the vertical and lateral movement of water along bedding planes, joints, and fractures. Although the water-bearing properties of the two formations differ, regionally they are considered as one aquifer, as there is no confining bed which separates the two formations. Most wells are stopped at the top of the lowermost unit of the Ft. Payne since material within and below this unit is relatively impermeable. Recharge to the aquifer is derived from precipitation, and wells in the area yield from 10 to 1,100 gpm with an average yield of 150 gpm (1).

3.0 OBJECTIVES

The objectives of this site sampling investigation were to:

- determine the identities and concentrations of contaminants present, if any, which do not normally occur in the study area.

- use the analytical data to aid in determining whether contaminants found on site have the potential to migrate.

4.0 SCOPE

It was within the scope of this investigation to collect groundwater, surface water, and soil/sediment samples. Sampling locations were chosen to target the areas where contamination was most likely. It was not within the scope of this investigation to install any monitoring wells, however, existing on-site permanent monitoring wells were sampled. This study did not include a site-specific geophysical evaluation.

5.0 FIELD INVESTIGATION

5.1 Description of Sample Locations

A total of 17 samples, including seven surface water samples, four groundwater samples, and six soil/sediment samples, were collected during this investigation. One surface water and one sediment sample were collected from the drainage ditch upstream from the site. One surface water sample was collected from a small spring where it enters the onsite drainage ditch by way of an underground pipe. Surface water and sediment samples were collected from each of three leachate points along the drainage ditch. (Please note that leachate points 2 and 4 are the same location. Due to environmental conditions during the sampling investigation, samples L2-5S and L4-7W were not collected consecutively, hence the different codes.) An additional surface water sample was taken from a small leachate pool just south of the ditch. Four groundwater samples were collected from existing monitoring wells at the site. One composite soil sample was taken from an auger hole near the small leachate pool. One surface water sample and one sediment sample were collected from the drainage ditch downstream from the site. Figure 3 shows the sampling locations and Table 1 lists sample codes and descriptions. Information on the monitoring wells is given in Table 8.

5.2 Field Measurements

Temperature and pH of all water samples and conductivity readings for groundwater samples are shown in Table 9. The city of Decatur requested FIT to monitor the air in the Brookhaven Middle School basement. No readings above

background were detected with the HNU. Above background readings were recorded on the OVA in the boiler room, which may have been due to fumes from the gas-powered boiler and other machinery. Twenty-five gas vents around the school were surveyed with both the OVA and the HNU. Slight readings above background were detected by the OVA at two vents. HNU readings were taken at the onsite auger hole drilled by FIT members. These readings indicated that volatile organics were emitting from the hole. Readings taken in the breathing zone showed no contamination of the ambient atmosphere.

5.3 Split Samples

CERCLA regulations dictate that split samples be offered to the current owners of a site. The city of Decatur declined split samples.

5.4 Analytical Laboratories

Analyses of samples collected during this investigation were conducted by laboratories under contract with the U.S. Environmental Protection Agency in their Contract Laboratory Program (CLP). Organic analyses of samples collected during the Aquadome study were performed by CompuChem Labs of Research Triangle Park, North Carolina. Inorganic analyses were conducted by Rocky Mountain Analytical Labs of Arvada, Colorado. All analytical laboratory data are attached as Appendix A.

5.5 Analytical Data Quality

The analytical data generated from the Aquadome investigation have been subjected to quality control review. All contaminants detected during analyses are tabulated in Tables 2-7. Concentrations of some of the contaminants are designated in the tables as estimated values. Those data indicate only the presence of the given contaminants, and should be used for site screening purposes only.

6.0 DISCUSSION OF ANALYTICAL RESULTS

6.1 Groundwater Samples

Four onsite monitoring wells were sampled. The locations of these wells are shown on Figure 3. Analyses on sample MW-1 from the well in the southwest corner of the site indicated the presence of sixteen inorganics. Of these, six are priority pollutants: silver (5.7 est. ug/l), chromium (15 ug/l), copper (8.9 est. ug/l), nickel (13 ug/l), lead (8.4 ug/l), and zinc (97 ug/l). No organics were detected in this sample.

Sample MW-2, from the well on the site's northern boundary, was found to contain eighteen inorganics. Eight of these are priority pollutant metals. They are as follows (concentrations in ug/l): silver (9.1 est.), arsenic (9.6), cadmium (6.4), chromium (31), copper (24 est.), nickel (28), lead (26), and zinc (220). One organic compound was identified, toluene, a priority pollutant at 3.5 (est.) ug/l.

Analyses on sample MW-3, from the central monitoring well, showed the presence of twelve inorganics, four of which are priority pollutants. These priority pollutant metals are: copper (9 est. ug/l), nickel (15 ug/l), lead (16 ug/l), and zinc (31 ug/l). Organic analyses indicated only the presence of one unidentified organic compound.

Inorganic analyses on groundwater sample MW-4 (location shown on Figure 3) identified seventeen inorganic constituents, seven of which are priority pollutants. As with all three of the preceeding monitoring well samples, copper, nickel, lead, and zinc were present in MW-4, at concentrations of 30 (est.), 22, 23, and 150 ug/l respectively. Silver (6.6 est. ug/l), beryllium (0.5 ug/l), and chromium (45 ug/l) were also present in this sample. Toluene (7.9 ug/l) was the only priority pollutant organic identified in sample MW-4. All inorganic data on the groundwater samples are shown in Table 6. The corresponding organic data are given in Table 7.

6.2 Leachate and Sediment Samples

Four leachate samples were taken at the Aquadome site. Corresponding sediment samples were collected at three of the leachate points. Water sample L1-4W,

taken at leachate point number one, was found to contain fourteen inorganic constituents. Four of these are considered priority pollutant metals: chromium (7.9 ug/l), copper (9.6 est. ug/l), lead (61 ug/l), and zinc (81 ug/l). No organic compounds were present in this sample. The corresponding sediment sample, L1-4S, contained a total of seventeen inorganic constituents, seven of which are priority pollutants. These priority pollutant metals and their concentrations (in ug/kg) are as follows: silver (4,500 est.), arsenic (7,500), chromium (29,000), copper (11,000 est.), nickel (5,200), lead (24,000), and zinc (36,000). Two of the three organic compounds identified in this sample are priority pollutants: bis (2-ethylhexyl)phthalate (500 est. ug/kg), and toluene (5 est. ug/kg).

Leachate water sample L4-7W and sediment sample L2-5S were collected at the same location, leachate point number two. Analyses on the water sample at this location indicated the presence of nineteen inorganics, nine of which are priority pollutants. These nine are as follows (concentrations in ug/l): silver (18 est.), arsenic (31), beryllium (3), cadmium (19), chromium (330), copper (130 est.), nickel (53), lead (480), and zinc (680). One organic compound was present in this sample, benzo (GHI) perylene, a priority pollutant, at 9.2 (est.) ug/l. The corresponding sediment sample, L2-5S, was shown to contain sixteen inorganics, of which seven are priority pollutant metals. These are silver (4,400 est. ug/kg), arsenic (9,100 ug/kg), cadmium (4,800 ug/kg), chromium (51,000 ug/kg), copper (24,000 ug/kg), nickel (9,000 ug/kg), and lead (66,000 ug/kg). The priority pollutant organics bis (2-ethylhexyl)phthalate (340 est. ug/kg) and 3,3'-dichlorobenzidene (1,500 ug/kg) were also identified. In addition, the pesticides dieldrin and chlordane were present in this sample at concentrations of 7 (est.) ug/kg and 69 (est.) ug/kg respectively. (Chlordane was detected on a presumptive evidence basis.)

Analyses indicated that leachate water sample L3-6W contained the same inorganic priority pollutants as L4-7W, with the exceptions of arsenic and beryllium. Concentrations of the seven priority pollutant metals in L3-6W are somewhat lower than in L4-7W (Table 6). Four priority pollutant organic compounds were found in this sample: vinyl chloride (35 ug/l), trans-1,2-dichloroethene (50 ug/l), trichloroethene (3.6 est. ug/l), and chlorobenzene (4.9 est. ug/l). Five priority pollutant metals were present in L3-6S, the corresponding sediment sample. These inorganic constituents included arsenic (4,700 ug/kg), chromium (30,000 ug/kg),

copper (42,000 ug/kg), lead (31,000 ug/kg), and zinc (58,000 ug/kg). There were no organic compounds identified in sediment sample L3-6S.

Leachate point number five was a small leachate pool. The limited amount of water present allowed for sampling for volatile organics analyses only. This sample was coded L5-8W. The results of these analyses indicate the presence of two organic priority pollutants: trans-1,2-dichloroethene at 11,000 ug/l and trichloroethene at 2,200 (est.) ug/l. No sediment sample was taken at this location. Results of inorganic analyses on leachate water and sediment samples are shown in Tables 2 and 6. Tables 3, 4, 5, and 7 give the organic analyses data on these samples.

6.3 Surface Water and Sediment Samples

Surface water and sediment samples were collected from the drainage ditch at locations upstream and downstream of the site. Additionally, a surface water sample was taken from a small spring where it enters the drainage ditch onsite. This sample, coded SW-2W, was found to contain eight inorganic constituents. Among these, zinc was the only inorganic priority pollutant present at 3.5 ug/l. Two priority pollutant organics were identified: tetrachloroethene (17 ug/l) and bis (2-ethylhexyl)phthalate (10 est. ug/l). Analyses also indicated the presence of the pesticides heptachlor epoxide (0.05 ug/l) and dieldrin (0.07 est. ug/l).

Surface water sample US-1W was collected from the drainage ditch just prior to where the ditch enters the site. Analyses revealed the presence of ten inorganic constituents, including priority pollutants lead (25 ug/l) and zinc (30 ug/l). Organic analyses found the sample to contain priority pollutants tetrachloroethene and bis (2-ethylhexyl)phthalate at estimated concentrations of 3.2 ug/l and 9.4 ug/l respectively. Analyses on the corresponding sediment sample, US-1S, indicated five priority pollutants were among fourteen inorganic constituents present. Chromium (32,000 ug/kg), copper (15,000 ug/kg), nickel (7,800 ug/kg), lead (270,000 ug/kg), and zinc (260,000 ug/kg) were identified. Analyses indicated the presence of nine priority pollutant organic compounds in this sample. They are as follows (concentrations in ug/kg): phenanthrene (540 est.), fluoranthene (860 est.), pyrene (550 est.), benzyl butyl phthalate (560 est.), bis (2-ethylhexyl)phthalate (1,200 est.),

benzo (A) anthracene (320 est.), chrysene (430 est.), phenol (800), and toluene (3,700). Pesticides dieldrin (59 ug/kg) and chlordane (presumptive evidence) were also detected in this sample.

Surface water sample DS-3W was taken from the drainage ditch just downstream of the site. Eleven inorganics were present in this sample, including the priority pollutants copper (8.8 est. ug/l), nickel (18 ug/l), and zinc (12 ug/l). The following priority pollutant organic compounds were detected (concentrations in ug/l): trans-1,2-dichloroethene (8.7), chloroform (3 est.), trichloroethene (3.6 est.), tetrachloroethene (2.8 est.), and toluene (92). Analyses also indicated the presence of heptachlor epoxide and dieldrin, priority pollutant pesticides, at estimated concentrations of 0.02 and 0.03 ug/l, respectively. The corresponding sediment sample, DS-3S, was found to contain five priority pollutant metals: chromium (47,000 ug/kg), copper (630,000 est. ug/kg), nickel (10,000 ug/kg), lead (180,000 ug/kg), and zinc (360,000 ug/kg). Organic analyses identified three priority pollutant organic compounds: di-N-butylphthalate (590 est. ug/kg), fluoranthene (530 est. ug/kg), and bis (2-ethylhexyl) phthalate (2,400 est. ug/kg). Dieldrin (60 ug/kg) and chlordane (presumptive evidence), priority pollutant pesticides, were also present. Surface water and sediment data from organic analyses are shown in Tables 3, 4, 5, and 7. Inorganic data are given in Tables 2 and 6.

6.4 Subsurface Soil Sample

One subsurface soil sample, coded A1S, was taken during the Aquadome study. The sample was a composite of soil collected from an auger hole approximately 10 feet deep. FIT members noted an unpleasant odor similar to that of shoe polish emitting from the auger hole. The soil from the hole was stained black. Inorganic analyses indicated the presence of twenty inorganic constituents, of which ten are priority pollutants. These are as follows (concentrations in ug/kg): silver (7,200 est.), arsenic (14,000), beryllium (530), cadmium (6,700), chromium (160,000), copper (28,000,000 est.), nickel (550,000), lead (520,000), zinc (2,600,000), and mercury (580). Analyses indicated seven organic priority pollutants were present, including (concentrations in ug/kg): naphthalene (13,000 est.), N-nitrosodiphenylamine/diphenylamine (22,000 est.), trans-1,2-dichloroethene (19), benzene (10), toluene (220), chlorobenzene (72), and ethyl benzene (50). Also found

in this sample was PCB 1254 at an estimated concentration of 9,400 ug/kg. Analytical results for this sample are shown in Tables 2-5.

7.0 SUMMARY OF ANALYTICAL RESULTS

The results of the inorganic analyses on all samples from this site indicated high levels of metals. Most consistently found throughout the site were copper, nickel, lead, and zinc.

The results of the organic analyses revealed that several of the soil/sediment samples contained toluene and bis (2-ethylhexyl)phthalate, as well as the pesticides dieldrin and chlordane. Tetrachloroethene, trichloroethene, bis (2-ethylhexyl)phthalate, and trans-1,2-dichloroethene occurred frequently throughout the leachate and surface water samples, while toluene was the only priority pollutant organic evident in the groundwater samples.

8.0 METHODOLOGY

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3, 4, and 6 of the Water Surveillance Branch Standard Operating Procedures and Quality Assurance Manual (Draft); United States Environmental Protection Agency, Region IV, Environmental Services Division, August 1980 and all revisions to the SOP addressed in the following correspondences:

Blackwell, P. (October 21, 1983) Changes in Sampling Procedures.
Lair, D. (September 10, 1984) Solvents Used to Clean Sampling Equipment.
Wilson, C. (December 14, 1983) Region IV Sampling SOP Revisions. (ESD, 1980).

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division; April 1982, or as specified by the existing United States

Environmental Protection Agency Standard procedures and protocols for the contract analytical laboratory program (ESD, 1982).

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8. Pugh, Joel, 1986. Mabry Engineering, Decatur City Engineer. Personal Communication with Katharine Fenley, NUS Corporation, 2/12/86. Re: Ownership of landfill and population of City of Decatur.

9. Scott-Simpson, Jennifer, and Hansen Benoy, Barbara, 1985. Reconnaissance Trip Reports, Aquadome Site, Decatur, Alabama, 4/16/85.

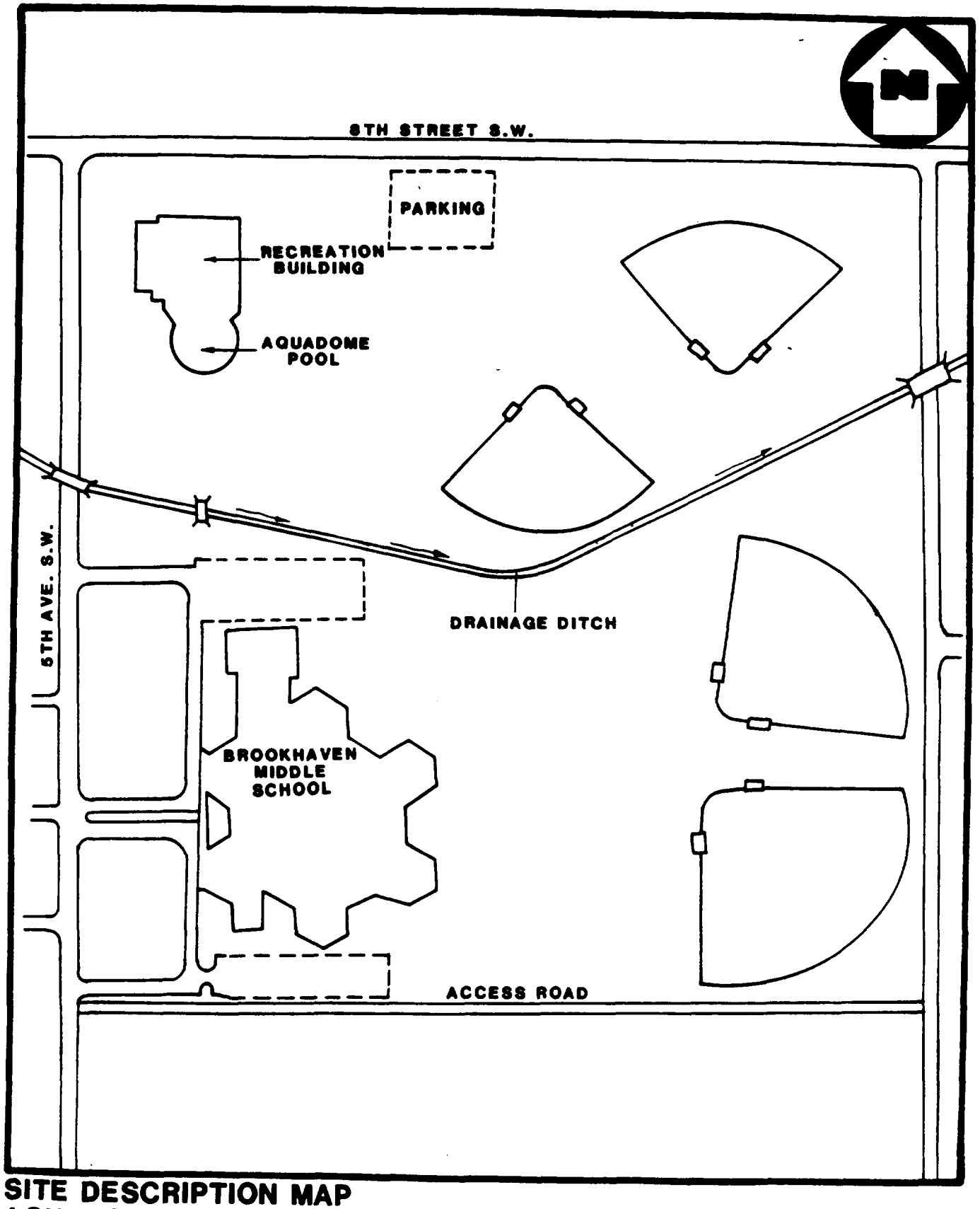
BASE MAP IS A PORTION OF THE USGS 7.5 MINUTE QUADRANGLE DECATUR, ALABAMA 1975.

SITE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 1

SCALE : 1" = APPROX. 2364 FT.

NUS CORPORATION
A Halliburton Company

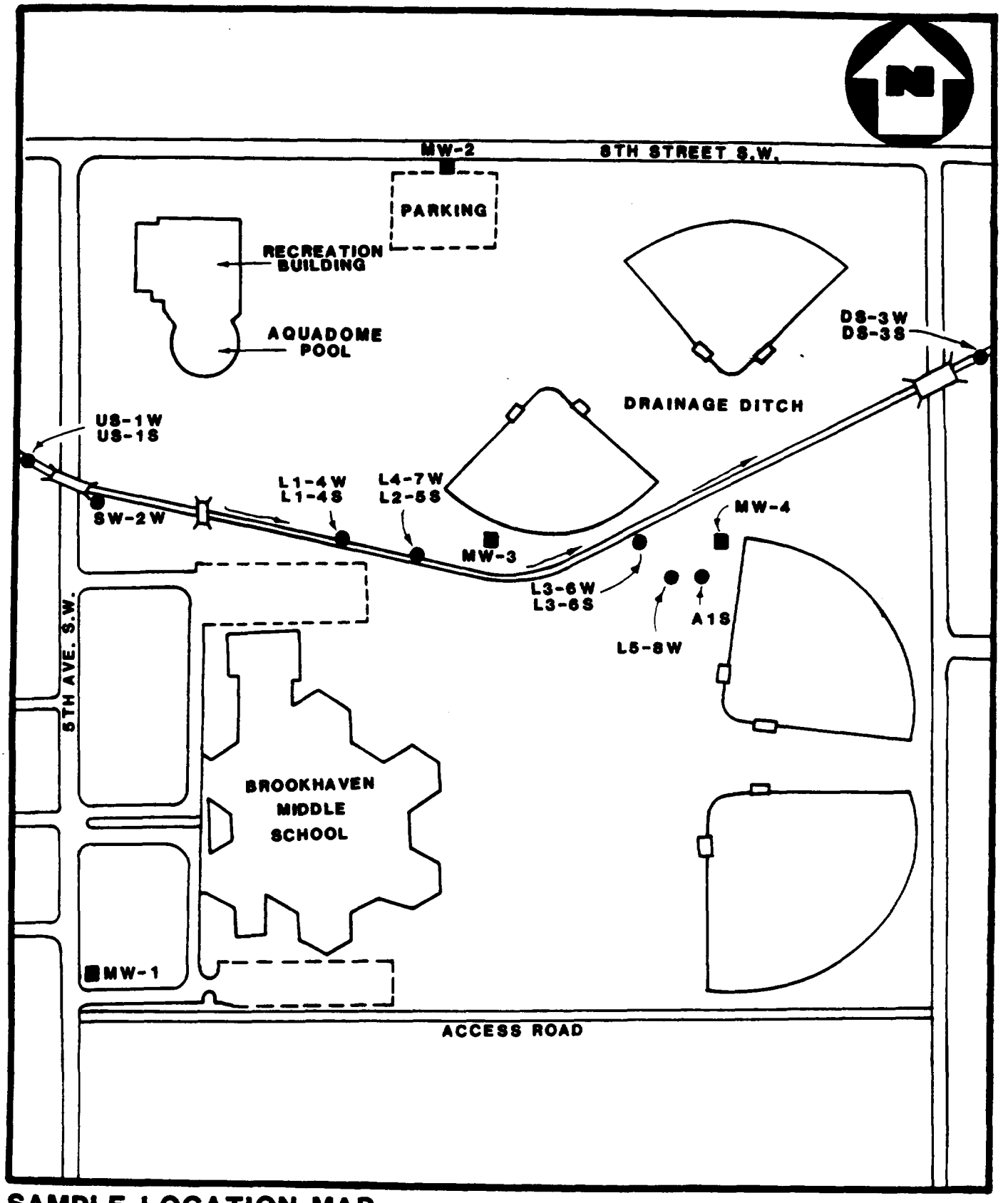


SITE DESCRIPTION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 2

SCALE : 1" = APPROX. 210 FT.

NUS CORPORATION
A Halliburton Company



SAMPLE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 3

SCALE : 1" = APPROX. 210 FT.

NUS CORPORATION
A Halliburton Company

TABLE 1
AQUADOME SITE
DECATUR, ALABAMA
SAMPLE CODES AND DESCRIPTIONS

Sample Code	Description
AD-US-1W	Water sample collected from drainage ditch upstream prior to entering site.
AD-US-1S	Sediment sample collected from above location.
AD-SW-2W	Water sample collected from spring which enters drainage ditch by way of an underground pipe.
AD-DS-3W	Water sample collected from drainage ditch downstream from site.
AD-DS-3S	Sediment sample collected from above location.
AD-MW-1	Groundwater sample collected from monitoring well #1.
AD-MW-2	Groundwater sample collected from monitoring well #2.
AD-MW-3	Groundwater sample collected from monitoring well #3.
AD-MW-4	Groundwater sample collected from monitoring well #4.
AD-L1-4W	Water sample collected from leachate point #1.
AD-L1-4S	Sediment sample collected from above location.
AD-L2-5S	Sediment sample collected from leachate point #2. (Leachate points #2 and #4 are the same.)
AD-L4-7W	Water sample collected from above location. (Leachate points #2 and #4 are the same.)
AD-L3-6W	Water sample collected from leachate point #3.
AD-L3-6S	Sediment sample collected from above location.
AD-A1S	Composite soil sample collected from auger hole onsite.
AD-L5-8W	Water sample collected from leachate pool (point #5) near auger hole. Volatile organics analysis only.

TABLE 2
AQUADOME SITE
DECATUR, ALABAMA
INORGANIC ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Element	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Silver*	-	4,500J	4,400J	-	7,200J	-
Arsenic*	-	7,500	9,100	4,700	14,000	-
Barium	57,000J	64,000J	110,000J	52,000J	210,000J	50,000J
Beryllium*	-	-	-	-	530	-
Cadmium*	-	-	4,800	-	6,700	-
Cobalt	8,100	6,700	7,600	7,400J	300J	-
Chromium*	32,000	29,000	51,000	30,000	160,000	47,000
Copper*	15,000J	11,000J	24,000	42,000J	28,000,000J	630,000J
Nickel*	7,800	5,200	9,000	-	550,000	10,000
Lead*	270,000	24,000	66,000	31,000	520,000	180,000
Tin	-	-	-	-	46,000	-
Vanadium	19,000	47,000	74,000	42,000	41,000	34,000
Zinc*	260,000	36,000	-	58,000	2,600,000	360,000
Aluminum	3,900,000	7,900,000J	11,000,000J	6,900,000J	18,000,000J	6,000,000J
Manganese	450,000J	470,000J	1,800,000J	430,000J	560,000J	490,000J
Calcium	160,000,000	4,000,000	10,000,000	4,800,000	23,000,000	85,000,000
Magnesium	3,400,000	350,000	670,000	460,000	13,000,000	1,900,000
Iron	9,500,000J	24,000,000J	40,000,000J	25,000,000	28,000,000J	24,000,000J
Sodium	-	660,000J	-	-	-	1,400,000J
Potassium	460,000	410,000	850,000	-	1,600,000	-
Mercury*	-	-	-	-	580	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value

TABLE 3
AQUADOME SITE
DECATUR, ALABAMA
PURGEABLE ORGANICS ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Compound	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Trans-1,2-dichloroethene*	-	-	-	-	19	-
Benzene*	-	-	-	-	10	-
Toluene*	3,700	5J	-	-	220	-
Chlorobenzene*	-	-	-	-	72	-
Ethyl Benzene*	-	-	-	-	50	-
Total Xylenes	-	-	-	-	130	-
Acetone	-	-	-	-	290J	-
Methyl Ethyl Ketone	-	-	-	-	110	-
Carbon Disulfide	-	-	-	-	5J	-
Unidentified Compounds	-	-	-	-	7	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value

TABLE 4
AQUADOME SITE
DECATUR, ALABAMA
EXTRACTABLE ORGANICS ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Compound	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Naphthalene*	-	-	-	-	13,000J	-
N-Nitrosodiphenylamine/ Diphenylamine*	-	-	-	-	22,000J	-
Phenanthrene*	540J	-	-	-	-	-
Di-N-butylphthalate*	-	-	-	-	-	590J
Fluoranthene*	860J	-	-	-	-	530J
Pyrene*	550J	-	-	-	-	-
Benzyl Butyl Phthalate*	560J	-	-	-	-	-
Bis(2-ethylhexyl)phthalate*	1,200J	500J	340J	-	-	2,400J
Benzo (A) anthracene*	320J	-	-	-	-	-
Chrysene*	430J	-	-	-	-	-
3,3'-Dichlorobenzidene*	-	-	1,500	-	-	-
Phenol*	800	-	-	-	-	-
4-Methylphenol	8,300	-	-	-	-	900J
Methylbenzene sulfonamide	-	3,000JN	-	-	-	-
Petroleum Product	N	N	-	-	N	N
Unidentified Compounds	3	-	5	-	-	5

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value
N Presumptive evidence of presence of material.

TABLE 5
AQUADOME SITE
DECATUR, ALABAMA
PESTICIDES AND PCB ANALYSES
SOIL/SEDIMENT SAMPLES
(in ug/kg)

Compound	US-1S	L1-4S	L2-5S	L3-6S	A1S	DS-3S
Dieldrin*	59	-	7J	-	-	60
Chlordane (Tech. Mixture)*	180JN	-	69JN	-	-	410JN
PCB 1254 (AROCLOR 1254)*	-	-	-	-	9,400J	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value
N Presumptive evidence of presence of material.

TABLE 6
AQUADOME SITE
DECATUR, ALABAMA
INORGANICS ANALYSES
WATER SAMPLES
(in ug/l)

Element	US-1W	SW-2W	L1-4W	L4-7W	MW-3	L3-6W	MW-4	DS-3W	MW-1	MW-2
Silver*	-	-	-	18J	-	5.6J	6.6J	-	5.7J	9.1J
Arsenic*	-	-	-	31	-	-	-	-	-	9.6
Barium	45J	30J	340J	600J	97J	670J	160J	28J	730J	220J
Beryllium*	-	-	-	3	-	-	0.5	-	-	-
Cadmium*	-	-	-	19	-	8	-	-	-	6.4
Cobalt	-	-	11	43	-	51	12	-	16	110
Chromium*	-	-	7.9	330	-	27	45	-	15	31
Copper*	-	-	9.6J	130J	9J	71J	30J	8.8J	8.9J	24J
Nickel*	-	-	-	53	15	9.3	22	18	13	28
Lead*	25	-	61	480	16	120	23	-	8.4	26
Vanadium	-	-	11	570	-	41	54	-	11	43
Zinc*	30	3.5	81	680	31	180	150	12	97	220
Aluminum	140J	-	2,200J	110,000J	880J	9.5J	15,000J	62J	4,200J	6,700J
Manganese	100J	24J	3,600J	6,000J	200J	5.7J	1,700J	35J	12,000J	6,100J
Calcium	80,000,000	69,000	165,000	19,000	130,000	95,000	300,000	10,000	75,000,000	43,000
Magnesium	3,800	2,600	160,000	14,000	5,500	11,000	16,000	3,100	9,700	7,900
Iron	400,000J	70J	31,000J	270,000J	1,300J	74,000J	19,000J	310J	4,100J	65,000J
Sodium	5,400J	2,100J	37,000J	38,000J	100,000J	59,000J	88,000J	2,400,000J	20,000J	42,000J
Potassium	650	760	6,500	18,000	5,200	14,000	1,700	1,400	40,000	52,000

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value

TABLE 7
AQUADOME SITE
DECATUR, ALABAMA
SUMMARY OF ORGANICS AND PESTICIDES ANALYSES**
WATER SAMPLES
(in ug/l)

Compound	US-1W	SW-2W	L1-4W	L4-7W	MW-3	L3-6W	L5-8W	MW-4	DS-3W	MW-1	MW-2
Methyl Ethyl Ketone	-	-	-	-	-	-	-	33	75	-	-
Vinyl Chloride*	-	-	-	-	-	35	-	-	-	-	-
Trans-1,2-dichloroethene*	-	-	-	-	-	50	11,000	-	8.7	-	-
Chloroform*	-	-	-	-	-	-	-	-	3J	-	-
Trichloroethene*	-	-	-	-	-	3.6J	2,200J	-	3.6J	-	-
Tetrachloroethene*	3.2J	17	-	-	-	-	-	-	2.8J	-	-
Toluene*	-	-	-	-	-	-	-	7.9	92	-	3.5J
Chlorobenzene*	-	-	-	-	-	4.9J	-	-	-	-	-
Bis (2-ethylhexyl) phthalate*	9.4J	10J	-	-	-	-	NA	-	-	-	-
Benzo (GHI) perylene*	-	-	-	9.2J	-	-	NA	-	-	-	-
Unidentified Compounds	1	1	-	-	1	-	NA	-	-	-	-
Heptachlor Epoxide*	-	0.05	-	-	-	-	-	-	0.02J	-	-
Dieldrin*	-	0.07J	-	-	-	-	-	-	0.03J	-	-

* Priority pollutant
\- Material was analyzed for but not detected.
J Estimated value
NA Not analyzed
** No PCBs were found in any water sample.

TABLE 8
AQUADOME SITE
DECATUR, ALABAMA
MONITORING WELL INFORMATION

Well Code	Well Depth - Feet	Depth to Water - Feet
MW-1 (B-4)*	25.5	10.6
MW-2 (B-1)	38.0	11.5
MW-3 (B-2)	30.0	3.6
MW-4 (B-3)	30.0	8.7

* Indicates City of Decatur well designations. FIT team assigned MW codes due to unavailability of the original codes at the time of sampling.

(Source: Soil Boring Exploration Report, August 12, 1981, Testing Inc., Decatur, Alabama. Under contract with City of Decatur, c/o Mabry Engineering Co., Inc.)

TABLE 9
AQUADOME SITE
DECATUR, ALABAMA
FIELD MEASUREMENTS OF WATER SAMPLES

Code	pH	Temp. (°C)	Conductivity (umhos/cm)*
MW-1	6.6	19	220
MW-2	6.1	18	225
MW-3	8.9	18	375
MW-4	6.8	18	675
US-1W	7.5	23	
SW-2W	6.8	20	
DS-3W	7.3	22	
L1-4W	6.9	23	
L3-6W	6.6	22	
L4-7W	-	-	
L5-8W	6.6	23.5	

* Groundwater samples only.

APPENDIX A

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: RSC 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDB642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40U	UG/L	SILVER
88%	UG/L	ARSENIC
NA	UG/L	BORON
104%	UG/L	BARIUM
110%	UG/L	BERYLLIUM
113%	UG/L	CADMIUM
104%	UG/L	COBALT
113%	UG/L	CHROMIUM
110%	UG/L	COPPER
NA	UG/L	MOLYBDENUM
104%	UG/L	NICKEL
74%	UG/L	LEAD
115%	UG/L	ANTIMONY
58%	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
0%	UG/L	THALLIUM
106%	UG/L	VANADIUM
NA	UG/L	YTTRIUM
124%	UG/L	ZINC
NA	UG/L	ZIRCONIUM
64%	UG/L	MERCURY
98%	UG/L	ALUMINUM
150%	UG/L	MANGANESE
0.29U	MG/L	CALCIUM
0.33U	MG/L	MAGNESIUM
100%	MG/L	IRON
0.88UJ	MG/L	SODIUM
0.470U	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): HMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40UJ	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
12UJ	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
40J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
5U	UG/L	NICKEL
5U	UG/L	LEAD
46U	UG/L	ANTIMONY
2UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
40UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
2U	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
21UJ	UG/L	ALUMINUM
3UJ	UG/L	MANGANESE
0.290U	MG/L	CALCIUM
0.380U	MG/L	MAGNESIUM
0.011UJ	MG/L	IRON
0.880UJ	MG/L	SODIUM
0.4700	MG/L	POTASSIUM

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: RSC 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADUME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5.7J	UG/L	SILVER
40	UG/L	ARSENIC
NA	UG/L	BORON
730J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
16	UG/L	COBALT
15	UG/L	CHROMIUM
8.9J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
13	UG/L	NICKEL
8.4	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
11	UG/L	VANADIUM
NA	UG/L	YTTRIUM
97	UG/L	ZINC
NR	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
4200J	UG/L	ALUMINUM
12000J	UG/L	MANGANESE
75000	MG/L	CALCIUM
9.7	MG/L	MAGNESIUM
4.1J	MG/L	IRON
20J	MG/L	SODIUM
40	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-F&D, REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENDZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
9.1J	UG/L	SILVER
2.9	UG/L	ARSENIC
NA	UG/L	BORON
220J	UG/L	BARIUM
0.5U	UG/L	BERILLIUM
5.8	UG/L	CADMIUM
110	UG/L	COBALT
31	UG/L	CHROMIUM
24J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
28	UG/L	NICKEL
26	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
3KU	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
43	UG/L	VANADIUM
NA	UG/L	YTTRIUM
220	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
6700J	UG/L	ALUMINUM
6100J	UG/L	MANGANESE
43	MG/L	CALCIUM
7.9	MG/L	MAGNESIUM
6KJ	MG/L	IRON
42J	MG/L	SODIUM
52	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALIZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
97J	UG/L	BARIUM
0.50	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
9J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
13	UG/L	NICKEL
10	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
31	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
840J	UG/L	ALUMINUM
200J	UG/L	MANGANESE
130	MG/L	CALCIUM
5.5	MG/L	MAGNESIUM
1.3J	MG/L	IRON
100J	MG/L	SODIUM
5.2	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: RSC 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: A MENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6.6J	UG/L	SILVER
10U	UG/L	ARSENIC
NA	UG/L	BORON
160J	UG/L	BARIUM
0.5	UG/L	BERYLLIUM
50	UG/L	CADMIUM
12	UG/L	COBALT
45	UG/L	CHROMIUM
30J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
22	UG/L	NICKEL
23	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
54	UG/L	VANADIUM
NA	UG/L	YTTRIUM
150	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
15000J	UG/L	ALUMINUM
1700J	UG/L	MANGANESE
300	MG/L	CALCIUM
16	MG/L	MAGNESIUM
19J	MG/L	IRON
8.4	MG/L	SODIUM
1.7	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7642 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-U8-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOC VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
45J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
4UJ	UG/L	COPPER
NA	UG/L	MOLYBDENUM
5U	UG/L	NICKEL
25	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
4UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
30	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.10U	UG/L	MERCURY
140J	UG/L	ALUMINUM
100J	UG/L	MANGANESE
[illegible]	UG/L	CALCIUM
[illegible]	UG/L	MAGNESIUM
[illegible]	UG/L	IRON
5.4J	UG/L	SODIUM
0.65	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/15/85

[redacted]
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W M
ANALYTICAL METHOD:

CASE NO.: 1806 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): ANAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4UJ	UG/L	SILVER
4U	UG/L	ARSENIC
NR	UG/L	[redacted]
30J	UG/L	[redacted]
3.5U	UG/L	[redacted]
40	UG/L	[redacted]
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
4UJ	UG/L	COPPER
NA	UG/L	MOLYBDENUM
50	UG/L	NICKEL
5U	UG/L	LEAD
46U	UG/L	ANTIMONY
5UR	UG/L	SELENIUM
30	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
3.5	UG/L	[redacted]
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
210UJ	UG/L	ALUMINUM
24J	UG/L	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
0.760	MG/L	POTASSIUM

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: NONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
28J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
5U	UG/L	CADMIUM
7U	UG/L	COBALT
4U	UG/L	CHROMIUM
0.8J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
18	UG/L	NICKEL
2U	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
4U	UG/L	VANADIUM
NA	UG/L	YTTRIUM
17	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
62J	UG/L	ALUMINUM
15J	UG/L	MANGANESE
10	MG/L	CALCIUM
3.1	MG/L	MAGNESIUM
0.310J	MG/L	IRON
2400J	MG/L	SODIUM
1.4	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: NONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
40J	UG/L	SILVER
4U	UG/L	ARSENIC
NA	UG/L	BORON
340J	UG/L	BARIUM
0.5U	UG/L	BERILLIUM
50	UG/L	CADMIUM
11	UG/L	COBALT
7.9	UG/L	CHROMIUM
9.6J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
50	UG/L	NICKEL
61	UG/L	LEAD
46U	UG/L	ANTIMONY
20UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
11	UG/L	VANADIUM
NA	UG/L	YTTRIUM
81	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
2200J	UG/L	ALUMINUM
3690J	UG/L	MANGANESE
185	MG/L	CALCIUM
160	MG/L	MAGNESIUM
91J	MG/L	IRON
37J	MG/L	SODIUM
6.5	MG/L	POTASSIUM

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: RSC 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: A BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
5.6J	UG/L	SILVER
40	UG/L	ARSENIC
NA	UG/L	BORON
670J	UG/L	BARIUM
0.5U	UG/L	BERYLLIUM
8	UG/L	CADMIUM
51	UG/L	COBALT
27	UG/L	CHROMIUM
71J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
9.3	UG/L	NICKEL
120	UG/L	LEAD
46U	UG/L	ANTIMONY
50UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
41	UG/L	VANADIUM
NA	UG/L	YTTRIUM
190	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
9.5J	UG/L	ALUMINUM
5.7J	UG/L	MANGANESE
95	MG/L	CALCIUM
11	MG/L	MAGNESIUM
44J	MG/L	IRON
99J	MG/L	SODIUM
14	MG/L	POTASSIUM

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL HAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
10J	UG/L	SILVER
11	UG/L	ARSENIC
NA	UG/L	BORON
600J	UG/L	BARIUM
3	UG/L	BERYLLIUM
19	UG/L	CADMIUM
41	UG/L	COBALT
330	UG/L	CHROMIUM
130J	UG/L	COPPER
NA	UG/L	MOLYBDENUM
53	UG/L	NICKEL
400	UG/L	LEAD
46U	UG/L	ANTIMONY
80UR	UG/L	SELENIUM
36U	UG/L	TIN
NA	UG/L	STRONTIUM
NA	UG/L	TELLURIUM
NA	UG/L	TITANIUM
10UR	UG/L	THALLIUM
570	UG/L	VANADIUM
NA	UG/L	YTTRIUM
680	UG/L	ZINC
NA	UG/L	ZIRCONIUM
0.1U	UG/L	MERCURY
110000J	UG/L	ALUMINUM
6000J	UG/L	MANGANESE
19	MG/L	CALCIUM
14	MG/L	MAGNESIUM
270J	MG/L	IRON
38J	MG/L	SODIUM
10	MG/L	POTASSIUM

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

9/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7652 SAMPLE TYPE: WATSPK

ROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: AQUADOME SITE
ITY: DECATUR STATE: AL

TATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
UREY STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/24/85
AMPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: B HANSEN RECEIVED FROM:
AMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
EALED:

EMIST:
NALYTICAL METHOD:

ASE NO.: 4006 ORG SAMPLE NO: DB194 INORG SAMPLE NO.: WD8642
ONTRACT LABORATORY(ORGANIC): COMPUCHEM
ONTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS*

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FOOTNOTES*
*B=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
70%	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
58%	UG/L	1,2,4-TRICHLOROBENZENE
76%	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
65%	UG/L	ACENAPHTHYLENE
11J	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
89%	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
84%	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
74%	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
84%	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
58%	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
46%	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: RSC 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADVANCE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR200 INORG SAMPLE NO.: MDR643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GRR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
200	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
200	UG/L	1,3-DICHLOROBENZENE
200	UG/L	1,4-DICHLOROBENZENE
200	UG/L	1,2-DICHLOROBENZENE
200	UG/L	BIS(2-CHLOROETHYL) ETHER
200	UG/L	HEXACHLOROETHANE
200	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
200	UG/L	N-NITROSODI-N-PROPYLAMINE
200	UG/L	NITROBENZENE
200	UG/L	HEXACHLOROBUTADIENE
200	UG/L	1,2,4-TRICHLOROBENZENE
200	UG/L	NAPHTHALENE
200	UG/L	BIS(2-CHLOROETHOXY) METHANE
200	UG/L	ISOPHORONE
200	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
200	UG/L	2-CHLORONAPHTHALENE
200	UG/L	ACENAPHTHYLENE
200	UG/L	ACENAPHTHENE
200	UG/L	DIMETHYL PHTHALATE
200	UG/L	2,4-DINITROTOLUENE
200	UG/L	2,6-DINITROTOLUENE
200	UG/L	4-CHLOROPHENYL PHENYL ETHER
200	UG/L	FLUORENE
200	UG/L	DIETHYL PHTHALATE
200	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
200	UG/L	HEXACHLOROBENZENE (HCB)
200	UG/L	4-BROMOPHENYL PHENYL ETHER
200	UG/L	PHENANTHRENE
200	UG/L	ANTHRACENE
200	UG/L	DI-N-BUTYLPHTHALATE
200	UG/L	FLUORANTHENE
200	UG/L	PYRENE
200	UG/L	BENZYL BUTYL PHTHALATE
200	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
200	UG/L	BENZO(A)ANTHRACENE
400	UG/L	CHRYSENE
200	UG/L	3,3'-DICHLOROBENZIDINE
200	UG/L	DI-N-OCTYLPHTHALATE
200	UG/L	BENZO(B AND/OR K)FLUORANTHENE
200J	UG/L	BENZO(B AND/OR K)FLUORANTHENE
200	UG/L	BENZO-A-PYRENE
200	UG/L	INDENO (1,2,3-CD) PYRENE
200	UG/L	DIBENZO(A,H)ANTHRACENE
200	UG/L	BENZO(GHI)PERYLENE
200	UG/L	2-CHLOROPHENOL
200	UG/L	2-NITROPHENOL
200	UG/L	PHENOL
200	UG/L	2,4-DIMETHYLPHENOL
200	UG/L	2,4-DICHLOROPHENOL
200	UG/L	2,4,6-TRICHLOROPHENOL
200	UG/L	4-CHLORO-3-METHYLPHENOL
1000	UG/L	2,4-DINITROPHENOL
1000	UG/L	2-METHYL-4,6-DINITROPHENOL
1000	UG/L	PENTACHLOROPHENOL
1000	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: RSC 7650 SAMPLE TYPE: MONWL

OJECT NO.: 85-060 PROGRAM ELEMENT: NSF
URCE: AQUADOME SITE
TY: DECATUR STATE: AL

ATION I.D.: AD-MW-1
URET STATION NO:

MPLE COLLECTION: START DATE/TIME 04/24/85
MPLE COLLECTION: STOP DATE/TIME 00/00/00

LLECTED BY: B BENOZ RECEIVED FROM:
MPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
ALED:

ENIST:
ALYTICAL METHOD:

SE NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
NTRACT LABORATORY(ORGANIC): COMPUCHEM
NTRACT LABORATORY(INORGANIC): RMAL

MARK:
MARK:

MPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS*

FOOTNOTES*
#A=AVERAGE VALUE #NA=NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	PHENOL
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

3/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: RSC 7647 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AQUADOME SITE
: DECATUR STATE: AL

ION I.D.: AD-MW-2
ET STATION NO:

LE COLLECTION: START DATE/TIME 04/24/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
YTICAL METHOD:

NO.: 8006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

****

OOTNOTES***
=AVERAGE VALUE *NR=NOT ANALYZED *NAI=INTERFERENCES
=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPIL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

13/85

EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AGGADONE SITE
: DECATUR STATE: AL

ION I.D.: AD-MW-3
ET STATION NO:

LE COLLECTION: START DATE/TIME 04/24/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

EMARKS***

****

OOTNOTES***
A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

13/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

JECT NO.: 85-060 PROGRAM ELEMENT: NSF
ICE: AQUADOME SITE
(: DECATUR STATE: AL

TION I.D.: AD-MW-4
ET STATION NO:

PLE COLLECTION: START DATE/TIME 04/24/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

LECTED BY: B BENOIT RECEIVED FROM:
PLE REC'D: DATE/TIME 00/00/00 REC'D BY:
LED:

NIST:
LYTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: 02275 INORG SAMPLE NO.: MDC072
TRACT LABORATORY(ORGANIC): COMPUCHEM
TRACT LABORATORY(INORGANIC): RMAL

ARK:
ARK:

PLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKB

REMARKS***

*****

FOOTNOTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPIL) ETHER
20U	UG/L	N-NITROSODI-N-PROPILAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTILPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZIL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXIL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTILPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PIRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 8006 ORG SAMPLE NO: 02764 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARKS:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
9.4J	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U.1	UG/L	BENZO<A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GH)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: AQUADOME SITE
ITY: DECATUR STATE: AL

ATION I.D.: AD-SW-2W
TORET STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/23/85
MPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: H BENOZ RECEIVED FROM:
MPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
ALED:

ENIST:
NALYTICAL METHOD:

E NO.: 8006 ORG SAMPLE NO: 02266 INORG SAMPLE NO.: MDC063
ITRACT LABORATORY(ORGANIC): COMPUCHEM
ITRACT LABORATORY(INORGANIC): RMAL

ANK:
ANK:

MPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS*

****

FOOTNOTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
10J	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U.J	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: ASC 7654 SAMPLE TYPE: NONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

REMARKS

****

FOOTNOTES
#A=AVERAGE VALUE #NA=NOT ANALYZED #NAI=INTERFERENCES
#J=ESTIMATED VALUE #N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
#U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
200U	UG/L	N-NITROSODIMETHYLAMINE
NP	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
200U	UG/L	1,3-DICHLOROBENZENE
200U	UG/L	1,4-DICHLOROBENZENE
200U	UG/L	1,2-DICHLOROBENZENE
200U	UG/L	BIS(2-CHLOROETHYL) ETHER
200U	UG/L	HEXACHLOROETHANE
200U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
200U	UG/L	N-NITROSODI-N-PROPYLAMINE
200U	UG/L	NITROBENZENE
200U	UG/L	HEXACHLOROBUTADIENE
200U	UG/L	1,2,4-TRICHLOROBENZENE
200U	UG/L	NAPHTHALENE
200U	UG/L	BIS(2-CHLOROETHOXY) METHANE
200U	UG/L	ISOPHORONE
200U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
200U	UG/L	2-CHLORONAPHTHALENE
200U	UG/L	ACENAPHTHYLENE
200U	UG/L	ACENAPHTHENE
200U	UG/L	DIMETHYL PHTHALATE
200U	UG/L	2,4-DINITROTOLUENE
200U	UG/L	2,6-DINITROTOLUENE
200U	UG/L	4-CHLOROPHENYL PHENYL ETHER
200U	UG/L	FLUORENE
200U	UG/L	DIETHYL PHTHALATE
200U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
200U	UG/L	HEXACHLOROBENZENE (HCB)
200U	UG/L	4-BROMOPHENYL PHENYL ETHER
200U	UG/L	PHENANTHRENE
200U	UG/L	ANTHRACENE
200U	UG/L	DI-N-BUTYLPHTHALATE
200U	UG/L	FLUORANTHENE
200U	UG/L	PYRENE
200U	UG/L	BENZYL BUTYL PHTHALATE
200U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
200U	UG/L	BENZO(A)ANTHRACENE
200U	UG/L	CHRYSENE
400U	UG/L	3,3'-DICHLOROBENZIDINE
200U	UG/L	DI-N-OCTYLPHTHALATE
200U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
200U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
200U	UG/L	BENZO-A-PYRENE
200U	UG/L	INDENO (1,2,3-CD) PYRENE
200U	UG/L	DIBENZO(A,H)ANTHRACENE
200U	UG/L	BENZO(GHI)PERYLENE
200U	UG/L	2-CHLOROPHENOL
200U	UG/L	2-NITROPHENOL
200U	UG/L	PHENOL
200U	UG/L	2,4-DIMETHYLPHENOL
200U	UG/L	2,4-DICHLOROPHENOL
200U	UG/L	2,4,6-TRICHLOROPHENOL
200U	UG/L	4-CHLORO-3-METHYLPHENOL
1000U	UG/L	2,4-DINITROPHENOL
1000U	UG/L	2-METHYL-4,6-DINITROPHENOL
1000U	UG/L	PENTACHLOROPHENOL
1000U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

'/23/85

EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: RSC 7644 SAMPLE TYPE: MONWL

JECT NO.: 85-060 PROGRAM ELEMENT: NSF
RCE: AQUADOME SITE
: DECATUR STATE: AL

ATION I.D.: AD-LI-4W
RET STATION NO:

MPLE COLLECTION: START DATE/TIME 04/23/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: A HANSEN RECEIVED FROM:
PLE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
YTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: 02267 INORG SAMPLE NO.: MDC064
FRACT LABORATORY(ORGANIC): COMPUCHEM
FRACT LABORATORY(INORGANIC): RMAL

RK:
RK:

PLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

****

FOOTNOTES***
A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPIL) ETHER
20U	UG/L	N-NITROSODI-N-PROPILAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENIL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENIL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTIL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXIL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U,J	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

'3/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7646 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CF: AQUADOME SITE
: DECATUR STATE: AL
ION I.D.: AD-L3-6W
ET STATION NO:

LE COLLECTION: START DATE/TIME 04/23/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
YTICAL METHOD:

NO.: 8006 ORG SAMPLE NO: D227! INORG SAMPLE NO.: MDC068
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

NK:
NK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NR	UG/L	[illegible]
NA	UG/L	[illegible]
20U	UG/L	[illegible]
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTYLPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZYL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
40U	UG/L	CHRYSENE
20U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PYRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
20U	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
100U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

****

DOTNOTES***
A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD, REG IV
ATHENS GEORGIA

3/85 EXTRACTABLE ORGANIC ANALYSIS
WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AQUADOME SITE
: DECATUR STATE: AL

ION I.D.: AD-L4-7W
ET STATION NO:

LE COLLECTION: START DATE/TIME 04/23/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
YTICAL METHOD:

NO.: 8006 ORG SAMPLE NO: D2774 INORG SAMPLE NO.: MDC071
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

****

OOTNOTES***
A=AVERAGE VALUE *NA=NOT ANALYZED *RAI=INTERFERENCES
-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
R=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
20U	UG/L	N-NITROSODIMETHYLAMINE
NA	UG/L	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/L	BENZIDINE
20U	UG/L	1,3-DICHLOROBENZENE
20U	UG/L	1,4-DICHLOROBENZENE
20U	UG/L	1,2-DICHLOROBENZENE
20U	UG/L	BIS(2-CHLOROETHYL) ETHER
20U	UG/L	HEXACHLOROETHANE
20U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
20U	UG/L	N-NITROSODI-N-PROPYLAMINE
20U	UG/L	NITROBENZENE
20U	UG/L	HEXACHLOROBUTADIENE
20U	UG/L	1,2,4-TRICHLOROBENZENE
20U	UG/L	NAPHTHALENE
20U	UG/L	BIS(2-CHLOROETHOXY) METHANE
20U	UG/L	ISOPHORONE
20U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
20U	UG/L	2-CHLORONAPHTHALENE
20U	UG/L	ACENAPHTHYLENE
20U	UG/L	ACENAPHTHENE
20U	UG/L	DIMETHYL PHTHALATE
20U	UG/L	2,4-DINITROTOLUENE
20U	UG/L	2,6-DINITROTOLUENE
20U	UG/L	4-CHLOROPHENYL PHENYL ETHER
20U	UG/L	FLUORENE
20U	UG/L	DIETHYL PHTHALATE
20U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
20U	UG/L	HEXACHLOROBENZENE (HCB)
20U	UG/L	4-BROMOPHENYL PHENYL ETHER
20U	UG/L	PHENANTHRENE
20U	UG/L	ANTHRACENE
20U	UG/L	DI-N-BUTILPHTHALATE
20U	UG/L	FLUORANTHENE
20U	UG/L	PYRENE
20U	UG/L	BENZIL BUTYL PHTHALATE
20U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
20U	UG/L	BENZO(A)ANTHRACENE
20U	UG/L	CHRYSENE
40U	UG/L	3,3'-DICHLOROBENZIDINE
20U	UG/L	DI-N-OCTYLPHTHALATE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20U	UG/L	BENZO(B AND/OR K)FLUORANTHENE
20UJ	UG/L	BENZO-A-PYRENE
20U	UG/L	INDENO (1,2,3-CD) PIRENE
20U	UG/L	DIBENZO(A,H)ANTHRACENE
9,2,7	UG/L	BENZO(GHI)PERYLENE
20U	UG/L	2-CHLOROPHENOL
20U	UG/L	2-NITROPHENOL
20U	UG/L	PHENOL
20U	UG/L	2,4-DIMETHYLPHENOL
20U	UG/L	2,4-DICHLOROPHENOL
20U	UG/L	2,4,6-TRICHLOROPHENOL
20U	UG/L	4-CHLORO-3-METHYLPHENOL
100U	UG/L	2,4-DINITROPHENOL
100U	UG/L	2-METHYL-4,6-DINITROPHENOL
100U	UG/L	PENTACHLOROPHENOL
100U	UG/L	4-NITROPHENOL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

0/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALITICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDR643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7652 SAMPLE TYPE: WATSPK

OJECT NO.: 85-060 PROGRAM ELEMENT: NSF
URCE: ADDADOME SITE
TY: DECATUR STATE: AL

ATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
ORET STATION NO:

MPLE COLLECTION: START DATE/TIME 04/24/85
MPLE COLLECTION: STOP DATE/TIME 00/00/00

LLECTED BY: B HANSEN RECEIVED FROM:
MPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
ALED:

EMIST:
ALYTICAL METHOD:

SE NO.: 8006 ORG SAMPLE NO: DB190 INORG SAMPLE NO.: MDR642
NTRACT LABORATORY(ORGANIC): COMPUCHEM
NTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS*

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE
60J	1 UNIDENTIFIED COMPOUND

****

FOOTNOTES*
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7650 SAMPLE TYPE: MONWL

JECT NO.: RS-060 PROGRAM ELEMENT: NSF
RCE: AQUADOME SITE
'Y: DECATUR STATE: AL

TION I.D.: AD-MW-1
RET STATION NO:

PLE COLLECTION: START DATE/TIME 04/24/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

LECTED BY: B BENOZ RECEIVED FROM:
PLE REC'D: DATE/TIME 00/00/00 REC'D BY:
LED:

IST:
LYTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
TRACT LABORATORY(ORGANIC): COMPUCHEM
TRACT LABORATORY(INORGANIC): RMAL

ARK:
ARK:

PLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKH

*REMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
1000	BENZOIC ACID
200	2-METHYLPHENOL
200	4-METHYLPHENOL
1000	2,4,5-TRICHLOROPHENOL
200	ANILINE
200	BENZYL ALCOHOL
200	4-CHLOROANILINE
200	DIBENZOFURAN
200	2-METHYL NAPHTHALENE
1000	2-NITROANILINE
1000	3-NITROANILINE
1000	4-NITROANILINE

****

*FOOTNOTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NA1-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

1/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: MONWL

CT NO.: 85-060 PROGRAM ELEMENT: NSF
E: AQUADOME SITE
: DECATUR STATE: AL

ON I.D.: AD-MW-3
T STATION NO:

E COLLECTION: START DATE/TIME 04/24/85
E COLLECTION: STOP DATE/TIME 00/00/00

CTED BY: H HENDZ RECEIVED FROM:
E REC'D: DATE/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: 02270 INORG SAMPLE NO.: MDC066
ACT LABORATORY(ORGANIC): COMPUCHEM
ACT LABORATORY(INORGANIC): RMAL

KT
K:

E LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

MARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE
40J	1 UNIDENTIFIED COMPOUND

****

OTNOTES***
=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
(=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
)=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
J=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

3/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CT: AQUADOME SITE
: DECATUR STATE: AL

ION I.D.: AD-MW-2
ET STATION NO:

LE COLLECTION: START DATE/TIME 04/24/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: R BENDZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IST:
YTICAL METHOD:

NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

OOTNOTES***
A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

13/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

JECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AQUADOME SITE
: DECATUR STATE: AL

TION I.D.: AD-MW-4
ET STATION NO:

PLE COLLECTION: START DATE/TIME 04/24/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

LECTED BY: H BENOZ RECEIVED FROM:
PLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
LED:

NIST:
LYTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
TRACT LABORATORY(ORGANIC): COMPUCHEM
TRACT LABORATORY(INORGANIC): RMAL

ARK:
ARK:

PLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN:	UG/L	COMPOUND NAME
100U		BENZOIC ACID
20U		2-METHYLPHENOL
20U		4-METHYLPHENOL
100U		2,4,5-TRICHLOROPHENOL
20U		ANILINE
20U		BENZYL ALCOHOL
20U		4-CHLOROANILINE
20U		DIBENZOFURAN
20U		2-METHYL NAPHTHALENE
100U		2-NITROANILINE
100U		3-NITROANILINE
100U		4-NITROANILINE

****

FOOTNOTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

'/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: MONWL

POJECT NO.: 85-060 PROGRAM ELEMENT: NSF
U F: AQUADOME SITE
(V) DECATUR STATE: AL

TION I.D.: AD-US-IN
IT STATION NO:

E COLLECTION: START DATE/TIME 04/23/85
E COLLECTION: STOP DATE/TIME 00/00/00

CTED BY: B BENOZ RECEIVED FROM:
E REC'D: DATE/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: D2764 INORG SAMPLE NO.: MDC061
ACT LABORATORY(ORGANIC): COMPUCHEM
ACT LABORATORY(INORGANIC): RMAL

IR:
IR:

E LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

MARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE
70J	1 UNIDENTIFIED COMPOUND

FOOTNOTES***
A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
E=ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

1/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7643 SAMPLE TYPE: MONWL

CT NO.: 85-060 PROGRAM ELEMENT: NSF
F: AQUADONE SITE
DECATUR STATE: AL

ON I.D.: AD-SW-2W
T STATION NO:

E COLLECTION: START DATE/TIME 04/23/85
E COLLECTION: STOP DATE/TIME 00/00/00

CTED BY: R MENDZ RECEIVED FROM:
E REC'D: DATE/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: D2766 INORG SAMPLE NO.: MDC063
ACT LABORATORY(ORGANIC): COMPUCHEM
ACT LABORATORY(INORGANIC): RMAL

K:
K:

F LOG VERIFIED BY: PLR DATA VERIFIED BY: GKH

MARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE
80J	1 UNIDENTIFIED COMPOUND

****

OTNOTES***
-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7694 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 6006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

1/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: NONWL

CT NO.: 85-060 PROGRAM ELEMENT: NSF
E: AQUADOME SITE
DECATUR STATE: AL

ON I.D.: AD-LI-4W
T STATION NO:

E COLLECTION: START DATE/TIME 04/23/85
E COLLECTION: STOP DATE/TIME 00/00/00

CTED BY: B HANSEN RECEIVED FROM:
E REC'D: DATE/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
ACT LABORATORY(ORGANIC): COMPUCHEM
ACT LABORATORY(INORGANIC): RMAL

K:
K:

E LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

MARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

OTNOTES***
=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-ESD,REG IV
ATHENS GEORGIA

3/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: BSC 7646 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
E: ADDADOME SITE
: DECATUR STATE: AL

ION I.D.: AD-L3-6W
ET STATION NO:

E COLLECTION: START DATE/TIME 04/23/85
E COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
E REC'D: DATE/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: 02771 INORG SAMPLE NO.: MUC068
ACT LABORATORY(ORGANIC): COMPUCHEM
ACT LABORATORY(INORGANIC): RMAL

R:
R:

E LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

EMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

OOTNOTES***
A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
E-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

3/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AQUADOME SITE
: DECATUR STATE: AL

ION I.D.: AD-L4-7W
ET STATION NO:

LE COLLECTION: START DATE/TIME 04/23/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE,/TIME 00/00/00 REC'D BY:
ED:

ST:
TICAL METHOD:

: NO.: 8006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

EMARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
100U	BENZOIC ACID
20U	2-METHYLPHENOL
20U	4-METHYLPHENOL
100U	2,4,5-TRICHLOROPHENOL
20U	ANILINE
20U	BENZYL ALCOHOL
20U	4-CHLOROANILINE
20U	DIBENZOFURAN
20U	2-METHYL NAPHTHALENE
100U	2-NITROANILINE
100U	3-NITROANILINE
100U	4-NITROANILINE

****

OOTNOTES***
A=AVERAGE VALUE NA=NOT ANALYZED NAI=INTERFERENCES
E-ESTIMATED VALUE PN-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: MSE
SOURCE: ACADEMY SITE
CITY: [illegible] STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B [illegible] RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: [illegible]
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *MAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 850 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADINE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H BEMOZ RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: K H
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: 02273 INORG SAMPLE NO.: M0C070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKD

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6A	UG/L	ACROLEIN
6A	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10U.J	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10U.J	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10U.J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10U.J	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
3.5J	UG/L	TOLUENE
10U.J	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *U=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED METHOD QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: ASC 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
100.7	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUIFORM SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H BENOIT RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: P P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): ORAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PIR SAMPLE DATA VERIFIED BY: GKH

PREPARAS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
100	UG/L	CHLOROMETHANE
100	UG/L	BROMOMETHANE
100	UG/L	VINYL CHLORIDE
100	UG/L	CHLOROETHANE
100.1	UG/L	METHYLENE CHLORIDE
100	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
100	UG/L	1,1-DICHLOROETHANE
100	UG/L	TRANS-1,2-DICHLOROETHENE
100	UG/L	CHLOROFORM
100	UG/L	1,2-DICHLOROETHANE
100.1	UG/L	1,1,1-TRICHLOROETHANE
100	UG/L	CARBON TETRACHLORIDE
100	UG/L	BROMODICHLOROMETHANE
100	UG/L	1,2-DICHLOROPROPANE
100	UG/L	TRANS-1,3-DICHLOROPROPENE
100.1	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
100	UG/L	BENZENE
100	UG/L	DIBROMOCHLOROMETHANE
100	UG/L	1,1,2-TRICHLOROETHANE
100	UG/L	CIS-1,3-DICHLOROPROPENE
100	UG/L	2-CHLOROETHYLVINYL ETHER
100.1	UG/L	BROMOFORM
100	UG/L	1,1,2,2-TETRACHLOROETHANE
100	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
7.9	UG/L	TOLUENE
100J	UG/L	CHLOROBENZENE
100	UG/L	ETHYL BENZENE
100	UG/L	TOTAL XYLENES

****

FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7642 SAMPLE TYPE: NONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NWAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKB

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10U.J	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10U.J	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10U.J	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
3.2J	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: ASC 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC06J
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10U,1	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10U,1	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10U,1	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
17	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10U,1	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7654 SAMPLE TYPE: MONAL

PROJECT NO.: 45-060 PROGRAM ELEMENT: HSF
SOURCE: MONITOR SITE
CITY: LOCATION STATE: AL

STATION I.D.: MO-05-W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: S P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DH736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10U.J	UG/L	METHYLENE CHLORIDE
5U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	UG/L	1,1-DICHLOROETHANE
8.7	UG/L	TRANS-1,2-DICHLOROETHENE
3.0J	UG/L	CHLOROFORM
5U	UG/L	1,2-DICHLOROETHANE
10U.J	UG/L	1,1,1-TRICHLOROETHANE
5U	UG/L	CARBON TETRACHLORIDE
5U	UG/L	BROMODICHLOROMETHANE
5U	UG/L	1,2-DICHLOROPROPANE
5U	UG/L	TRANS-1,3-DICHLOROPROPENE
3.6J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	UG/L	BENZENE
5U	UG/L	DIBROMOCHLOROMETHANE
5U	UG/L	1,1,2-TRICHLOROETHANE
5U	UG/L	CIS-1,3-DICHLOROPROPENE
5U	UG/L	2-CHLOROETHYLVINYL ETHER
10U.J	UG/L	BROMOFORM
5U	UG/L	1,1,2,2-TETRACHLOROETHANE
2.8J	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
4J	UG/L	TOLUENE
10U.J	UG/L	CHLOROBENZENE
5U	UG/L	ETHYL BENZENE
5U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 7644 SAMPLE TYPE: MONNL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7646 SAMPLE TYPE: NONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADONE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): AMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GRB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
9J	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
5U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
3.6J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
4.9J	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: RSC 764W SAMPLE TYPE: MONWL

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: OPELIKA STATE: AL

STATION I.D.: AD-14-74
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BROWN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: 02274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED AIRMUL QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
100	UG/L	CHLOROMETHANE
100	UG/L	BROMOMETHANE
100	UG/L	VINYL CHLORIDE
100	UG/L	CHLOROETHANE
100.J	UG/L	METHYLENE CHLORIDE
100	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
100	UG/L	1,1-DICHLOROETHANE
100	UG/L	TRANS-1,2-DICHLOROETHENE
100	UG/L	CHLOROFORM
100	UG/L	1,2-DICHLOROETHANE
100.J	UG/L	1,1,1-TRICHLOROETHANE
100	UG/L	CARBON TETRACHLORIDE
100	UG/L	BROMODICHLOROMETHANE
100	UG/L	1,2-DICHLOROPROPANE
100	UG/L	TRANS-1,3-DICHLOROPROPENE
100.J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
100	UG/L	BENZENE
100	UG/L	DIBROMOCHLOROMETHANE
100	UG/L	1,1,2-TRICHLOROETHANE
100	UG/L	CIS-1,3-DICHLOROPROPENE
100	UG/L	2-CHLOROETHYLVINYL ETHER
100.J	UG/L	BROMOFORM
100	UG/L	1,1,2,2-TETRACHLOROETHANE
100	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
100	UG/L	TOLUENE
100.J	UG/L	CHLOROBENZENE
100	UG/L	ETHYL BENZENE
100	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: HSC 7651 SAMPLE TYPE: MONWL

PROJECT NO.: HS-060 PROGRAM ELEMENT: HSF
SOURCE: FOUNDRY SITE
CITY: DECATUR STATE: AL

STATION I.D.: MW-05-MW
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: G HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 1000 ORG SAMPLE NO: 02283 INORG SAMPLE NO.: NO
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLM SAMPLE DATA VERIFIED BY: GMB

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
830U	UG/L	CHLOROMETHANE
830U	UG/L	BROMOMETHANE
830U	UG/L	VINYL CHLORIDE
830U	UG/L	CHLOROETHANE
830U,J	UG/L	METHYLENE CHLORIDE
830U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
830U	UG/L	1,1-DICHLOROETHANE
11000	UG/L	TRANS-1,2-DICHLOROETHENE
830U	UG/L	CHLOROFORM
830U	UG/L	1,2-DICHLOROETHANE
830U,J	UG/L	1,1,1-TRICHLOROETHANE
830U	UG/L	CARBON TETRACHLORIDE
830U	UG/L	BROMODICHLOROMETHANE
830U	UG/L	1,2-DICHLOROPROPANE
830U	UG/L	TRANS-1,3-DICHLOROPROPENE
2200J	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
830U	UG/L	BENZENE
830U	UG/L	DIBROMOCHLOROMETHANE
830U	UG/L	1,1,2-TRICHLOROETHANE
830U	UG/L	CIS-1,3-DICHLOROPROPENE
830U	UG/L	2-CHLOROETHYLVINYL ETHER
830U,J	UG/L	BROMOFORM
830U	UG/L	1,1,2,2-TETRACHLOROETHANE
830U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
830U	UG/L	TOLUENE
830U,J	UG/L	CHLOROBENZENE
830U	UG/L	ETHYL BENZENE
830U	UG/L	TOTAL XYLENES

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: MSF
SOURCE: [illegible] SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV OC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: [illegible] R
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
10UJ	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
10U	UG/L	CHLOROFORM
10U	UG/L	1,2-DICHLOROETHANE
10UJ	UG/L	1,1,1-TRICHLOROETHANE
10U	UG/L	CARBON TETRACHLORIDE
10U	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
10UJ	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
10U	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
10UJ	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
10U	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
10UJ	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
WATER

SAMPLE NO.: HSC 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ACTIVATED SITE
CITY: PRESTON STATE: AL

STATION I.D.: 40-85-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: HR190 INORG SAMPLE NO.: H0R642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/L	ACROLEIN
NA	UG/L	ACRYLONITRILE
10U	UG/L	CHLOROMETHANE
10U	UG/L	BROMOMETHANE
10U	UG/L	VINYL CHLORIDE
10U	UG/L	CHLOROETHANE
161%	UG/L	METHYLENE CHLORIDE
10U	UG/L	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	UG/L	1,1-DICHLOROETHANE
10U	UG/L	TRANS-1,2-DICHLOROETHENE
35%	UG/L	CHLOROFORM
134%	UG/L	1,2-DICHLOROETHANE
191%	UG/L	1,1,1-TRICHLOROETHANE
95%	UG/L	CARBON TETRACHLORIDE
138%	UG/L	BROMODICHLOROMETHANE
10U	UG/L	1,2-DICHLOROPROPANE
10U	UG/L	TRANS-1,3-DICHLOROPROPENE
327%	UG/L	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	UG/L	BENZENE
86%	UG/L	DIBROMOCHLOROMETHANE
10U	UG/L	1,1,2-TRICHLOROETHANE
10U	UG/L	CIS-1,3-DICHLOROPROPENE
10U	UG/L	2-CHLOROETHYLVINYL ETHER
215%	UG/L	BROMOFORM
10U	UG/L	1,1,2,2-TETRACHLOROETHANE
23%	UG/L	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	UG/L	TOLUENE
21HR	UG/L	CHLOROBENZENE
10U	UG/L	ETHYL BENZENE
10U	UG/L	TOTAL XYLENES

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-FSD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: ASC 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-FSD,REG IV
ATHENS GEORGIA

0/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: NORML

ROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: AGGADOME SITE
ITY: DECATUR STATE: AL

ATION I.D.: AD-MW-2
TORET STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/24/85
AMPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: B BENOZ RECEIVED FROM:
AMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
EALED:

EMIST:
NALYTICAL METHOD:

ASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
ONTRACT LABORATORY(ORGANIC): COMPUCHEM
ONTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
300J	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*B-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7645 SAMPLE TYPE: NORWL

OJECT NO.: 85-060 PROGRAM ELEMENT: NSF
URCE: AQUADOME SITE
TY: DECATUR STATE: AL

ATION I.D.: AQ-MW-3
ONET STATION NO:

MPLE COLLECTION: START DATE/TIME 04/24/85
MPLE COLLECTION: STOP DATE/TIME 00/00/00

LLECTED BY: B BENOZ RECEIVED FROM:
MPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
ALED:

ENIST:
ALYTICAL METHOD:

SE NO.: 4006 ORG SAMPLE NO: 02270 INORG SAMPLE NO.: MDC066
NTRACT LABORATORY(ORGANIC): COMPUCHEM
NTRACT LABORATORY(INORGANIC): RMAL

MARK:
MARK:

MPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

*REMARKS***

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*FOOTNOTES***
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC WATER

SAMPLE NO.: 85C 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADUADDME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STOREY STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2775 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAT.

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GRB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
33	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALIZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC WATER

SAMPLE NO.: 85C 7694 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
79	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: NONWL

CT NO.: 85-060 PROGRAM ELEMENT: NSF
E: AQUADOME SITE
DECATUR STATE: AL

ON I.D.: AD-US-1W
T STATION NO:

E COLLECTION: START DATE/TIME 04/23/85
E COLLECTION: STOP DATE/TIME 00/00/00

CTED BY: R BENOZ RECEIVED FROM:
E REC'D: DATE,/TIME 00/00/00 REC'D BY:
D:

ST:
TICAL METHOD:

NO.: 4006 ORG SAMPLE NO: 02764 INORG SAMPLE NO.: MDC061
ACT LABORATORY(ORGANIC): COMPUCHEM
ACT LABORATORY(INORGANIC): RMAL

RY:
R:

E LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

MARKS***

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

NOTNOTES***
=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

3/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

ECT NO.: 85-060 PROGRAM ELEMENT: NSF
CE: AGUADONE SITE
: DECATUR STATE: AL

ION I.D.: AD-SW-2W
CT STATION NO:

LE COLLECTION: START DATE/TIME 04/23/85
LE COLLECTION: STOP DATE/TIME 00/00/00

ECTED BY: B BENOZ RECEIVED FROM:
LE REC'D: DATE/TIME 00/00/00 REC'D BY:
ED:

IOD:
YTICAL METHOD:

NO.: 8006 ORG SAMPLE NO: 02266 INORG SAMPLE NO.: MDC063
RACT LABORATORY(ORGANIC): COMPUCHEM
RACT LABORATORY(INORGANIC): RMAL

RK:
RK:

LE LOG VERIFIED BY: PLB DATA VERIFIED BY: GRB

EMARKS:

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

FOOTNOTES:
=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: MONWL

JECT NO.: 85-060 PROGRAM ELEMENT: NSF
NCE: AGGADOME SITE
Y: DECATUR STATE: AL

TION I.D.: AD-LI-4W
NET STATION NO:

PLE COLLECTION: START DATE/TIME 04/23/85
PLE COLLECTION: STOP DATE/TIME 00/00/00

LECTED BY: B HANSEN RECEIVED FROM:
PLE REC'D: DATE/TIME 00/00/00 REC'D BY:
LED:

MIST:
LYTICAL METHOD:

E NO.: 4006 ORG SAMPLE NO: D2767 INORG SAMPLE NO.: MDC064
TRACT LABORATORY(ORGANIC): COMPUCHEM
TRACT LABORATORY(INORGANIC): AMAL

ARK:
ARK:

PLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS***

*****ANALYTICAL RESULTS*****

RESULTS	IN: UG/L	COMPOUND NAME
10U		ACETONE
10U		METHYL ETHYL KETONE
10U		CARBON DISULFIDE
10U		METHYL BUTYL KETONE
10U		METHYL ISOBUTYL KETONE
10U		STYRENE
10U		VINYL ACETATE
NA		DICHLORODIFLUOROMETHANE
NA		FLUOROTRICHLOROMETHANE

FOOTNOTES***
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

1/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: RSC 7646 SAMPLE TYPE: MONWL

ROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
OURCE: AQUADOME SITE
ITY: DECATUR STATE: AL

ATION I.D.: AD-GJ-6W
OREST STATION NO:

AMPLE COLLECTION: START DATE/TIME 04/23/85
AMPLE COLLECTION: STOP DATE/TIME 00/00/00

OLLECTED BY: H BENOZ RECEIVED FROM:
AMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
EALED:

ENIST:
ALYTICAL METHOD:

ASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
ONTRACT LABORATORY(ORGANIC): COMPUCHEM
ONTRACT LABORATORY(INORGANIC): RMAL

EMARK:
EMARK:

AMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

REMARKS*

****

FOOTNOTES*
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: BSC 7648 SAMPLE TYPE: NORWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: A BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
20UJ	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NR=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: ASC 7651 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LS-SW
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2783 INORG SAMPLE NO.: ND
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
830U	ACETONE
830U	METHYL ETHYL KETONE
830U	CARBON DISULFIDE
830U	METHYL BUTYL KETONE
830U	METHYL ISOBUTYL KETONE
830U	STYRENE
830U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
WATER

SAMPLE NO.: ASC 7693 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: A HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR200 INORG SAMPLE NO.: MDR643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTYL KETONE
10U	METHYL ISOBUTYL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC WATER

SAMPLE NO.: RSC 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8199 INORG SAMPLE NO.: MDR642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): HMAI

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GRB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/L	COMPOUND NAME
10U	ACETONE
10U	METHYL ETHYL KETONE
10U	CARBON DISULFIDE
10U	METHYL BUTIL KETONE
10U	METHYL ISOBUTIL KETONE
10U	STYRENE
10U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8200 INORG SAMPLE NO.: MDR643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.00	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10	UG/L	ENDRIN ALDEHYDE
NR	UG/L	2,3,7,8-TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*B=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DA199 INORG SAMPLE NO.: MDR642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.5R	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
5.6	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 6006 ORG SAMPLE NO: 02276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-FSD, REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: R5C 7649 SAMPLE TYPE: MONWL

PROJECT NO.: R5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.09U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHIDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 3006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NR	UG/L	2,3,7,8- TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXICHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: BSC 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MDC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
FPA-FSD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R MENDZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NR	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
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2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7648 SAMPLE TYPE: NORMAL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4005 ORG SAMPLE NO: 02274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
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2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7644 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSP
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2267 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.05U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.05U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.05U	UG/L	PCB-1221 (AROCLOR 1221)
0.05U	UG/L	PCB-1232 (AROCLOR 1232)
0.05U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.05U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8-TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: R5C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2766 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
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2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.07J	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8 TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXICHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: NONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADDADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.05U	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.10U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8-TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
WATER

SAMPLE NO.: 85C 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADDADONE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MDC099
CONTRACT LABORATORI(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): AMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKA

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
0.05U	UG/L	ALDRIN
0.05U	UG/L	HEPTACHLOR
0.02J	UG/L	HEPTACHLOR EPOXIDE
0.05U	UG/L	ALPHA-BHC
0.05U	UG/L	BETA-BHC
0.05U	UG/L	GAMMA-BHC (LINDANE)
0.05U	UG/L	DELTA-BHC
0.05U	UG/L	ENDOSULFAN I (ALPHA)
0.03J	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	ENDOSULFAN SULFATE
0.50U	UG/L	CHLORDANE (TECH. MIXTURE) /1
0.50U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
0.50U	UG/L	PCB-1221 (AROCLOR 1221)
0.50U	UG/L	PCB-1232 (AROCLOR 1232)
0.50U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)
0.50U	UG/L	PCB-1016 (AROCLOR 1016)
1.0U	UG/L	TOXAPHENE
0.1U	UG/L	ENDRIN ALDEHYDE
NA	UG/L	2,3,7,8-TCDD(DIOXIN)
--	UG/L	CHLORDENE /2
--	UG/L	ALPHA-CHLORDENE /2
--	UG/L	GAMMA-CHLORDENE /2
--	UG/L	1-HYDROXYCHLORDENE /2
--	UG/L	GAMMA-CHLORDANE /2
--	UG/L	TRANS-NONACHLOR /2
--	UG/L	ALPHA-CHLORDANE /2
--	UG/L	CIS-NONACHLOR /2
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7654 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB736 INORG SAMPLE NO.: MOC099
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

****

FOOTNOTES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7644 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LI-4W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2767 INORG SAMPLE NO.: MDC064
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: BSC 7649 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-4
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2275 INORG SAMPLE NO.: MDC072
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

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FOOTNOTES
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THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7646 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADUMP SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4004 ORG SAMPLE NO: D2271 INORG SAMPLE NO.: MUC068
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
NA	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7648 SAMPLE TYPE: MONWL

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L4-7W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R RENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2274 INORG SAMPLE NO.: MDC071
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

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FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

12/11/85

SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7642 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2264 INORG SAMPLE NO.: MDC061
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

****

FOOTNOTES
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.010UJ	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7643 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-SW-2W
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2266 INORG SAMPLE NO.: MDC063
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
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THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: BSC 7653 SAMPLE TYPE: BLKWA

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-5 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB200 INORG SAMPLE NO.: MDB643
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
102%	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7652 SAMPLE TYPE: WATSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-WS-08 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB199 INORG SAMPLE NO.: MDR642
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: 85C 7650 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-1
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2276 INORG SAMPLE NO.: MDC073
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: RSC 7647 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-2
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R MENDZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2273 INORG SAMPLE NO.: MDC070
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.0100J	MG/L	CYANIDE	00720

12/11/85 SPECIFIED ANALYSIS
WATER

SAMPLE NO.: BSC 7645 SAMPLE TYPE: MONWL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-MW-3
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B BENOZ RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2270 INORG SAMPLE NO.: MDC066
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-18
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: M R
ANALYTICAL METHOD:

CASE NO.: 4006 UNG SAMPLE NO: D2265 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
N-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3.0UJ	MG/KG	SILVER
3.0U	MG/KG	ARSENIC
NA	MG/KG	BORON
57J	MG/KG	BARIUM
0.40U	MG/KG	BERILLIUM
4.0U	MG/KG	CADMIUM
8.1	MG/KG	COBALT
32	MG/KG	CHROMIUM
15J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
7.8	MG/KG	NICKEL
270	MG/KG	LEAD
44U	MG/KG	ANTIMONY
4.0UR	MG/KG	SELENIUM
35U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3.0UR	MG/KG	THALLIUM
19	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
260	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.11U	MG/KG	MERCURI
3400	MG/KG	ALUMINUM
450J	MG/KG	MANGANESE
160000	MG/KG	CALCIUM
3400	MG/KG	MAGNESIUM
9500J	MG/KG	IRON
850UJ	MG/KG	SODIUM
460	MG/KG	POTASSIUM
48	%	MOISTURE

****

FOOTNOTES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADUMP SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8501 INORG SAMPLE NO.: MDR645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2.6UJ	MG/KG	SILVER
2.6U	MG/KG	ARSENIC
NA	MG/KG	BORON
7.9UJ	MG/KG	BARIUM
0.33U	MG/KG	BERYLLIUM
3.3U	MG/KG	CADMIUM
6.6U	MG/KG	COBALT
2.6U	MG/KG	CHROMIUM
13J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
3.3U	MG/KG	NICKEL
1.3U	MG/KG	LEAD
30U	MG/KG	ANTIMONY
3.3UR	MG/KG	SELENIUM
24U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
2.6U	MG/KG	THALLIUM
2.6U	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
1.7	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.07U	MG/KG	MERCURY
350J	MG/KG	ALUMINUM
2.7J	MG/KG	MANGANESE
1400	MG/KG	CALCIUM
2000	MG/KG	MAGNESIUM
170J	MG/KG	IRON
5800J	MG/KG	SODIUM
3100	MG/KG	POTASSIUM
24	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-38
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR466 INORG SAMPLE NO.: MUC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6.3UJ	MG/KG	SILVER
6.3U	MG/KG	ARSENIC
NA	MG/KG	BORON
50J	MG/KG	BARIUM
0.7BU	MG/KG	BERILLIUM
7.8U	MG/KG	CADMIUM
11U	MG/KG	COBALT
47	MG/KG	CHROMIUM
630J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
10	MG/KG	NICKEL
180	MG/KG	LEAD
77U	MG/KG	ANTIMONY
31UR	MG/KG	SELENIUM
56U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
6.3U	MG/KG	THALLIUM
34	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
360	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.16U	MG/KG	MERCURY
9000J	MG/KG	ALUMINUM
890J	MG/KG	MANGANESE
85000	MG/KG	CALCIUM
1900	MG/KG	MAGNESIUM
24000J	MG/KG	IRON
1400J	MG/KG	SODIUM
7300	MG/KG	POTASSIUM
68	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-FSD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 06/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
7.2J	MG/KG	SILVER
14	MG/KG	ARSENIC
NA	MG/KG	BORON
210J	MG/KG	BARIUM
0.53	MG/KG	BERYLLIUM
6.7	MG/KG	CADMIUM
0.3J	MG/KG	COBALT
160	MG/KG	CHROMIUM
28000J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
950	MG/KG	NICKEL
520	MG/KG	LEAD
31U	MG/KG	ANTIMONY
14UR	MG/KG	SELENIUM
4R	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
2.7UR	MG/KG	THALLIUM
41	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
2600	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.58	MG/KG	MERCURY
18000J	MG/KG	ALUMINUM
560J	MG/KG	MANGANESE
23000	MG/KG	CALCIUM
13000	MG/KG	MAGNESIUM
28000J	MG/KG	IRON
600UJ	MG/KG	SODIUM
1600	MG/KG	POTASSIUM
26	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: ASC 7650 SAMPLE TYPE: SEDIM

PROJECT NO.: A5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADYNE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-63-65
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): HMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3.4UJ	MG/KG	SILVER
4.7	MG/KG	ARSENIC
NA	MG/KG	BORON
57J	MG/KG	BARIUM
0.42U	MG/KG	BERYLLIUM
4.2U	MG/KG	CADMIUM
7.4J	MG/KG	COBALT
30	MG/KG	CHROMIUM
47J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
4.2U	MG/KG	NICKEL
21	MG/KG	LEAD
39U	MG/KG	ANTIMONY
42UR	MG/KG	SELENIUM
31U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3.4UR	MG/KG	THALLIUM
47	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
58	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.08U	MG/KG	MERCURY
6400J	MG/KG	ALUMINUM
430J	MG/KG	MANGANESE
4800	MG/KG	CALCIUM
460	MG/KG	MAGNESIUM
25000	MG/KG	IRON
750UJ	MG/KG	SODIUM
4000	MG/KG	POTASSIUM
41	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7697 SAMPLE TYPE: SEDIM

PROJECT NO.: H5-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-55
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.4J	MG/KG	SILVER
9.1	MG/KG	ARSENIC
NA	MG/KG	BORON
110J	MG/KG	BARIUM
0.47U	MG/KG	BERYLLIUM
4.8	MG/KG	CADMIUM
7.6	MG/KG	COBALT
51	MG/KG	CHROMIUM
24	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
9	MG/KG	NICKEL
66	MG/KG	LEAD
43U	MG/KG	ANTIMONY
47UR	MG/KG	SELENIUM
340	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3.8UR	MG/KG	THALLIUM
74	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
100	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
[illegible]	[illegible]	[illegible]
11000J	MG/KG	ALUMINUM
1800J	MG/KG	MANGANESE
10000	MG/KG	CALCIUM
670	MG/KG	MAGNESIUM
40000J	MG/KG	IRON
830UJ	MG/KG	SODIUM
850	MG/KG	POTASSIUM
47	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/15/85

METALS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AGRADUME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AU-01-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W A
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2268 INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: ALA

REMARKS
R-QUALITY CONTROL INDICATES THAT DATA ARE UNUSEABLE
R-COMPOUND MAY OR MAY NOT BE PRESENT
R-RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.5J	MG/KG	SILVER
7.5	MG/KG	ARSENIC
NA	MG/KG	BORON
64J	MG/KG	BARIUM
0.37U	MG/KG	BERYLLIUM
3.7U	MG/KG	CADMIUM
6.7	MG/KG	COBALT
29	MG/KG	CHROMIUM
31J	MG/KG	COPPER
NA	MG/KG	MOLYBDENUM
5.2	MG/KG	NICKEL
24	MG/KG	LEAD
34U	MG/KG	ANTIMONY
3.7UR	MG/KG	SELENIUM
27U	MG/KG	TIN
NA	MG/KG	STRONTIUM
NA	MG/KG	TELLURIUM
NA	MG/KG	TITANIUM
3U	MG/KG	THALLIUM
47	MG/KG	VANADIUM
NA	MG/KG	YTTRIUM
36	MG/KG	ZINC
NA	MG/KG	ZIRCONIUM
0.08U	MG/KG	MERCURY
7400J	MG/KG	ALUMINUM
470J	MG/KG	MANGANESE
4000	MG/KG	CALCIUM
350	MG/KG	MAGNESIUM
29000J	MG/KG	IRON
660J	MG/KG	SODIUM
410	MG/KG	POTASSIUM
33	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOCK SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
130	UG/KG	CHLOROMETHANE
130	UG/KG	BROMOMETHANE
130	UG/KG	VINYL CHLORIDE
130	UG/KG	CHLOROETHANE
200.1	UG/KG	METHYLENE CHLORIDE
6.7U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
6.7U	UG/KG	1,1-DICHLOROETHANE
10	UG/KG	TRANS-1,2-DICHLOROETHENE
6.7U	UG/KG	CHLOROFORM
6.7U	UG/KG	1,2-DICHLOROETHANE
6.7U	UG/KG	1,1,1-TRICHLOROETHANE
6.7U	UG/KG	CARBON TETRACHLORIDE
6.7U	UG/KG	BROMODICHLOROMETHANE
6.7U	UG/KG	1,2-DICHLOROPROPANE
6.7U	UG/KG	TRANS-1,3-DICHLOROPROPENE
6.7U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
10	UG/KG	BENZENE
6.7U	UG/KG	DIBROMOCHLOROMETHANE
6.7U	UG/KG	1,1,2-TRICHLOROETHANE
6.7U	UG/KG	CIS-1,3-DICHLOROPROPENE
6.7U	UG/KG	2-CHLOROETHYLVINYL ETHER
6.7UJ	UG/KG	BROMOFORM
6.7U	UG/KG	1,1,2,2-TETRACHLOROETHANE
6.7U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
220	UG/KG	TOLUENE
72	UG/KG	CHLOROBENZENE
50	UG/KG	ETHYL BENZENE
130	UG/KG	TOTAL XYLENES
26	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ACTADYNE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R GAUSER RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: S R
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D2265 INORG SAMPLE NO.: 86C062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GAB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
20000U	UG/KG	CHLOROMETHANE
20000U	UG/KG	BROMOMETHANE
20000U	UG/KG	VINYL CHLORIDE
20000U	UG/KG	CHLOROETHANE
20000J	UG/KG	METHYLENE CHLORIDE
20000U	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
20000U	UG/KG	1,1-DICHLOROETHANE
20000U	UG/KG	TRANS-1,2-DICHLOROETHENE
20000U	UG/KG	CHLOROFORM
20000U	UG/KG	1,2-DICHLOROETHANE
20000U	UG/KG	1,1,1-TRICHLOROETHANE
20000U	UG/KG	CARBON TETRACHLORIDE
20000U	UG/KG	BROMODICHLOROMETHANE
20000U	UG/KG	1,2-DICHLOROPROPANE
20000U	UG/KG	TRANS-1,3-DICHLOROPROPENE
20000U	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
20000U	UG/KG	BENZENE
20000U	UG/KG	DIBROMOCHLOROMETHANE
20000U	UG/KG	1,1,2-TRICHLOROETHANE
20000U	UG/KG	CIS-1,3-DICHLOROPROPENE
20000U	UG/KG	2-CHLOROETHYLVINYL ETHER
20000U	UG/KG	BROMOFORM
20000U	UG/KG	1,1,2,2-TETRACHLOROETHANE
20000U	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
3700J	UG/KG	TOLUENE
[redacted]		
20000U	UG/KG	ETHYL BENZENE
20000U	UG/KG	TOTAL XYLENES
50	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED [illegible] QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: BSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: ADRIADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
330	UG/KG	CHLOROMETHANE
330	UG/KG	BROMOMETHANE
330	UG/KG	VINYL CHLORIDE
330	UG/KG	CHLOROETHANE
330	UG/KG	METHYLENE CHLORIDE
330	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
330	UG/KG	1,1-DICHLOROETHANE
330	UG/KG	TRANS-1,2-DICHLOROETHENE
330	UG/KG	CHLOROFORM
330	UG/KG	1,2-DICHLOROETHANE
330	UG/KG	1,1,1-TRICHLOROETHANE
330	UG/KG	CARBON TETRACHLORIDE
330	UG/KG	BROMODICHLOROMETHANE
330	UG/KG	1,2-DICHLOROPROPANE
330	UG/KG	TRANS-1,3-DICHLOROPROPENE
330	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
330	UG/KG	BENZENE
330	UG/KG	DIBROMOCHLOROMETHANE
330	UG/KG	1,1,2-TRICHLOROETHANE
330	UG/KG	CIS-1,3-DICHLOROPROPENE
330	UG/KG	2-CHLOROETHYLVINYL ETHER
330J	UG/KG	BROMOFORM
330	UG/KG	1,1,2,2-TETRACHLOROETHANE
330	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
330	UG/KG	TOLUENE
330	UG/KG	CHLOROBENZENE
330	UG/KG	ETHYL BENZENE
330	UG/KG	TOTAL XYLENES
70	%	MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7661 SAMPLE TYPE: RLRSOIL

PROJECT NO.: RS-060 PROGRAM ELEMENT: RSF
SOURCE: ADDADONE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-ES-OR (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HAUSER RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W D
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D4501 INORG SAMPLE NO.: MB0645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR SAMPLE DATA VERIFIED BY: GPH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
110	UG/KG	CHLOROMETHANE
110	UG/KG	BROMOMETHANE
110	UG/KG	VINYL CHLORIDE
110	UG/KG	CHLOROETHANE
900.1	UG/KG	METHYLENE CHLORIDE
110	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
110	UG/KG	1,1-DICHLOROETHANE
110	UG/KG	TRANS-1,2-DICHLOROETHENE
110	UG/KG	CHLOROFORM
110	UG/KG	1,2-DICHLOROETHANE
110	UG/KG	1,1,1-TRICHLOROETHANE
110	UG/KG	CARBON TETRACHLORIDE
110	UG/KG	BROMODICHLOROMETHANE
110	UG/KG	1,2-DICHLOROPROPANE
110	UG/KG	TRANS-1,3-DICHLOROPROPENE
110	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
110	UG/KG	BENZENE
110	UG/KG	DIBROMOCHLOROMETHANE
110	UG/KG	1,1,2-TRICHLOROETHANE
110	UG/KG	CIS-1,3-DICHLOROPROPENE
110	UG/KG	2-CHLOROETHYLVINYL ETHER
110.1	UG/KG	BROMOFORM
110	UG/KG	1,1,2,2-TETRACHLOROETHANE
110	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
110	UG/KG	TOLUENE
110	UG/KG	CHLOROBENZENE
110	UG/KG	ETHYL BENZENE
110	UG/KG	TOTAL XYLENES
14	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED SYSTEM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: HS-060 PROGRAM ELEMENT: HSF
SOURCE: ACKERMAN SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-11-45
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 1005 ORG SAMPLE NO: D226R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
200	UG/KG	CHLOROMETHANE
200	UG/KG	BROMOMETHANE
200	UG/KG	VINYL CHLORIDE
200	UG/KG	CHLOROETHANE
200.J	UG/KG	METHYLENE CHLORIDE
200	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
200	UG/KG	1,1-DICHLOROETHANE
200	UG/KG	TRANS-1,2-DICHLOROETHENE
200	UG/KG	CHLOROFORM
200	UG/KG	1,2-DICHLOROETHANE
200	UG/KG	1,1,1-TRICHLOROETHANE
200	UG/KG	CARBON TETRACHLORIDE
200	UG/KG	BROMODICHLOROMETHANE
200	UG/KG	1,2-DICHLOROPROPANE
200	UG/KG	TRANS-1,3-DICHLOROPROPENE
200	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
200	UG/KG	BENZENE
200	UG/KG	DIBROMOCHLOROMETHANE
200	UG/KG	1,1,2-TRICHLOROETHANE
200	UG/KG	CIS-1,3-DICHLOROPROPENE
200	UG/KG	2-CHLOROETHYLVINYL ETHER
200.J	UG/KG	BROMOFORM
200	UG/KG	1,1,2,2-TETRACHLOROETHANE
200	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.1	UG/KG	TOLUENE
200	UG/KG	CHLOROBENZENE
200	UG/KG	ETHYL BENZENE
200	UG/KG	TOTAL XYLENES
50	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS
SEDIMENT/SOIL/STUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: MS-060 PROGRAM ELEMENT: HSF
SOURCE: ADRASDALE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-1/2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W D
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2769 INORG SAMPLE NO.: 90C067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH SAMPLE DATA VERIFIED BY: GRH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
NA	UG/KG	ACROLEIN
NA	UG/KG	ACRYLONITRILE
220	UG/KG	CHLOROMETHANE
220	UG/KG	BROMOMETHANE
220	UG/KG	VINYL CHLORIDE
220	UG/KG	CHLOROETHANE
220	UG/KG	METHYLENE CHLORIDE
220	UG/KG	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
220	UG/KG	1,1-DICHLOROETHANE
220	UG/KG	TRANS-1,2-DICHLOROETHENE
220	UG/KG	CHLOROFORM
220	UG/KG	1,2-DICHLOROETHANE
220	UG/KG	1,1,1-TRICHLOROETHANE
220	UG/KG	CARBON TETRACHLORIDE
220	UG/KG	BROMODICHLOROMETHANE
220	UG/KG	1,2-DICHLOROPROPANE
220	UG/KG	TRANS-1,3-DICHLOROPROPENE
220	UG/KG	TRICHLOROETHENE(TRICHLOROETHYLENE)
220	UG/KG	BENZENE
220	UG/KG	DIBROMOCHLOROMETHANE
220	UG/KG	1,1,2-TRICHLOROETHANE
220	UG/KG	CIS-1,3-DICHLOROPROPENE
220	UG/KG	2-CHLOROETHYLVINYL ETHER
2200	UG/KG	BROMOFORM
220	UG/KG	1,1,2,2-TETRACHLOROETHANE
220	UG/KG	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
220	UG/KG	TOLUENE
220	UG/KG	CHLOROBENZENE
220	UG/KG	ETHYL BENZENE
220	UG/KG	TOTAL XYLENES
55	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOCE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: K HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLM DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
290.J	ACETONE
110	METHYL ETHYL KETONE
5.0J	CARBON DISULFIDE
130	METHYL BUTYL KETONE
130	METHYL ISOBUTYL KETONE
130	STYRENE
130	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	TRICHLOROFLUOROMETHANE
900.J	7 UNIDENTIFIED COMPOUNDS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/24/85 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7662 SAMPLE TYPE: SOIL/SPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: HSF
SOURCE: ANDADORE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LS-05 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR502 INORG SAMPLE NO.: NO
CONTRACT LABORATORY(ORGANIC): CHROMDEX
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: CFR

REMARKS

****

FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
1900	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
3900	UG/KG	1,3-DICHLOROBENZENE
3900	UG/KG	1,4-DICHLOROBENZENE
3900	UG/KG	1,2-DICHLOROBENZENE
3900	UG/KG	BIS(2-CHLOROETHYL) ETHER
3900	UG/KG	HEXACHLOROETHANE
3900	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
3900	UG/KG	N-NITROSODI-N-PROPYLAMINE
3900	UG/KG	NITROBENZENE
3900	UG/KG	HEXACHLOROBUTADIENE
58%	UG/KG	1,2,4-TRICHLOROBENZENE
76%	UG/KG	NAPHTHALENE
3900	UG/KG	BIS(2-CHLOROETHOXY) METHANE
3900	UG/KG	ISOPHORONE
3900	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
3900	UG/KG	2-CHLORONAPHTHALENE
65%	UG/KG	ACENAPHTHYLENE
420	UG/KG	ACENAPHTHENE
3900	UG/KG	DIMETHYL PHTHALATE
3900	UG/KG	2,4-DINITROTOLUENE
3900	UG/KG	2,6-DINITROTOLUENE
3900	UG/KG	4-CHLOROPHENYL PHENYL ETHER
3900	UG/KG	FLUORENE
3900	UG/KG	DIETHYL PHTHALATE
70%	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
3900	UG/KG	HEXACHLOROBENZENE (HCB)
3900	UG/KG	4-BROMOPHENYL PHENYL ETHER
89%	UG/KG	PHENANTHRENE
3900	UG/KG	ANTHRACENE
3900	UG/KG	DI-N-BUTYLPHTHALATE
84%	UG/KG	FLUORANTHENE
3900	UG/KG	PYRENE
3900	UG/KG	BENZYL BUTYL PHTHALATE
71%	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
3900	UG/KG	BENZO(A)ANTHRACENE
3900	UG/KG	CHRYSENE
7800	UG/KG	3,3'-DICHLOROBENZIDINE
3900	UG/KG	DI-N-OCTYLPHTHALATE
3900	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
3900	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
3900	UG/KG	BENZO-A-PYRENE
3900	UG/KG	INDENO (1,2,3-CD) PYRENE
3900	UG/KG	DIBENZO(A,H)ANTHRACENE
3900	UG/KG	BENZO(GHI)PERYLENE
3900	UG/KG	2-CHLOROPHENOL
3900	UG/KG	2-NITROPHENOL
3900	UG/KG	PHENOL
69%	UG/KG	2,4-DIMETHYLPHENOL
3900	UG/KG	2,4-DICHLOROPHENOL
58%	UG/KG	2,4,6-TRICHLOROPHENOL
3900	UG/KG	4-CHLORO-3-METHYLPHENOL
19000	UG/KG	2,4-DINITROPHENOL
46%	UG/KG	2-METHYL-4,6-DINITROPHENOL
19000	UG/KG	PENTACHLOROPHENOL
19000	UG/KG	4-NITROPHENOL
13	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: HSE
SOURCE: ADDADDIAE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A15
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHECKLIST:
ANALYTICAL METHOD:

CASE NO.: 4006 OPG SAMPLE NO: D2277 THORO SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NSAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKD

***** ANDS***

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED INSTRUMENT QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
270000	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
270000	UG/KG	1,3-DICHLOROBENZENE
270000	UG/KG	1,4-DICHLOROBENZENE
270000	UG/KG	1,2-DICHLOROBENZENE
270000	UG/KG	BIS(2-CHLOROETHYL) ETHER
270000	UG/KG	HEXACHLOROETHANE
270000	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
270000	UG/KG	N-NITROSODI-N-PROPYLAMINE
270000	UG/KG	NITROBENZENE
270000	UG/KG	HEXACHLOROBUTADIENE
270000	UG/KG	1,2,4-TRICHLOROBENZENE
13000J	UG/KG	NAPHTHALENE
270000	UG/KG	BIS(2-CHLOROETHOXY) METHANE
270000	UG/KG	ISOPHORONE
270000	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
270000	UG/KG	2-CHLORONAPHTHALENE
270000	UG/KG	ACENAPHTHYLENE
270000	UG/KG	ACENAPHTHENE
270000	UG/KG	DIMETHYL PHTHALATE
270000	UG/KG	2,4-DINITROTOLUENE
270000	UG/KG	2,6-DINITROTOLUENE
270000	UG/KG	4-CHLOROPHENYL PHENYL ETHER
270000	UG/KG	FLUORENE
270000	UG/KG	DIETHYL PHTHALATE
22000J	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
270000	UG/KG	HEXACHLOROBENZENE (HCB)
270000	UG/KG	4-BROMOPHENYL PHENYL ETHER
270000	UG/KG	PHENANTHRENE
270000	UG/KG	ANTHRACENE
270000	UG/KG	DI-N-BUTYLPHTHALATE
270000	UG/KG	FLUORANTHENE
270000	UG/KG	PYRENE
270000	UG/KG	BENZIL BUTYL PHTHALATE
270000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
270000	UG/KG	BENZO(A)ANTHRACENE
270000	UG/KG	CHRYSENE
540000	UG/KG	3,3'-DICHLOROBENZIDINE
270000	UG/KG	DI-N-OCTYLPHTHALATE
270000	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
270000	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
270000J	UG/KG	BENZO-A-PYRENE
270000	UG/KG	INDENO (1,2,3-CD) PYRENE
270000	UG/KG	DIBENZO(A,H)ANTHRACENE
270000	UG/KG	BENZO(GHI)PERYLENE
270000	UG/KG	2-CHLOROPHENOL
270000	UG/KG	2-NITROPHENOL
270000	UG/KG	PHENOL
270000	UG/KG	2,4-DIMETHYLPHENOL
270000	UG/KG	2,4-DICHLOROPHENOL
270000	UG/KG	2,4,6-TRICHLOROPHENOL
270000	UG/KG	4-CHLORO-3-METHYLPHENOL
1400000	UG/KG	2,4-DINITROPHENOL
1400000	UG/KG	2-METHYL-4,6-DINITROPHENOL
1400000	UG/KG	PENTACHLOROPHENOL
1400000	UG/KG	4-NITROPHENOL
76	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7455 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: USE
SOURCE: [illegible] SITE
CITY: [illegible] STATE: AL

STATION LOC.: AT-US-15
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: [illegible] RECEIVED FROM:
SAMPLE [illegible]: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 1006 OLC SAMPLE NO: D2265 ENVRG SAMPLE NO.: 100062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NRAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLM DATA VERIFIED BY: GKD

REMARKS

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FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *P=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6700	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
6700	UG/KG	1,3-DICHLOROBENZENE
6700	UG/KG	1,4-DICHLOROBENZENE
6700	UG/KG	1,2-DICHLOROBENZENE
6700	UG/KG	BIS(2-CHLOROETHYL) ETHER
6700	UG/KG	HEXACHLOROETHANE
6700	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
6700	UG/KG	N-NITROSODI-N-PROPYLAMINE
6700	UG/KG	NITROBENZENE
6700	UG/KG	HEXACHLOROBUTADIENE
6700	UG/KG	1,2,4-TRICHLOROBENZENE
6700	UG/KG	NAPHTHALENE
6700	UG/KG	BIS(2-CHLOROETHOXY) METHANE
6700	UG/KG	ISOPHORONE
6700	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
6700	UG/KG	2-CHLORONAPHTHALENE
6700	UG/KG	ACENAPHTHYLENE
6700	UG/KG	ACENAPHTHENE
6700	UG/KG	DIMETHYL PHTHALATE
6700	UG/KG	2,4-DINITROTOLUENE
6700	UG/KG	2,6-DINITROTOLUENE
6700	UG/KG	4-CHLOROPHENYL PHENYL ETHER
6700	UG/KG	FLUORENE
6700	UG/KG	DIETHYL PHTHALATE
6700	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
6700	UG/KG	HEXACHLOROBENZENE (HCB)
6700	UG/KG	4-BROMOPHENYL PHENYL ETHER
5400J	UG/KG	PHENANTHRENE
6700	UG/KG	ANTHRACENE
6700	UG/KG	DI-N-BUTYLPHTHALATE
8600J	UG/KG	FLUORANTHENE
5500J	UG/KG	PYRENE
5600J	UG/KG	BENZYL BUTYL PHTHALATE
17000J	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
3200J	UG/KG	BENZO(A)ANTHRACENE
4300J	UG/KG	CHRYSENE
13000	UG/KG	3,3'-DICHLOROBENZIDINE
6700	UG/KG	DI-N-OCTYLPHTHALATE
6700	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6700	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6700J	UG/KG	BENZO-A-PYRENE
6700	UG/KG	INDENO (1,2,3-CD) PYRENE
6700	UG/KG	DIBENZO(A,H)ANTHRACENE
6700	UG/KG	BENZO(GHI)PERYLENE
6700	UG/KG	2-CHLOROPHENOL
6700	UG/KG	2-NITROPHENOL
800	UG/KG	PHENOL
6700	UG/KG	2,4-DIMETHYLPHENOL
6700	UG/KG	2,4-DICHLOROPHENOL
6700	UG/KG	2,4,6-TRICHLOROPHENOL
6700	UG/KG	4-CHLORO-3-METHYLPHENOL
34000	UG/KG	2,4-DINITROPHENOL
34000	UG/KG	2-METHYL-4,6-DINITROPHENOL
34000	UG/KG	PENTACHLOROPHENOL
34000	UG/KG	4-NITROPHENOL
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: R5-060 PROGRAM ELEMENT: HSF
SOURCE: SQUAMICO SITE
CITY: DECATUR STATE: AL

STATION I.D.: SD-DS-35
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DR466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE TDC VERIFIED BY: PLH DATA VERIFIED BY: GKD

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
11000	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
11000	UG/KG	1,3-DICHLOROBENZENE
11000	UG/KG	1,4-DICHLOROBENZENE
11000	UG/KG	1,2-DICHLOROBENZENE
11000	UG/KG	BIS(2-CHLOROETHYL) ETHER
11000	UG/KG	HEXACHLOROETHANE
11000	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
11000	UG/KG	N-NITROSODI-N-PROPYLAMINE
11000	UG/KG	NITROBENZENE
11000	UG/KG	HEXACHLOROBUTADIENE
11000	UG/KG	1,2,4-TRICHLOROBENZENE
11000	UG/KG	NAPHTHALENE
11000	UG/KG	BIS(2-CHLOROETHOXY) METHANE
11000	UG/KG	ISOPHORONE
11000	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
11000	UG/KG	2-CHLORONAPHTHALENE
11000	UG/KG	ACENAPHTHYLENE
11000	UG/KG	ACENAPHTHENE
11000	UG/KG	DIMETHYL PHTHALATE
11000	UG/KG	2,4-DINITROTOLUENE
11000	UG/KG	2,6-DINITROTOLUENE
11000	UG/KG	4-CHLOROPHENYL PHENYL ETHER
11000	UG/KG	FLUORENE
11000	UG/KG	DIETHYL PHTHALATE
11000	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
11000	UG/KG	HEXACHLOROBENZENE (HCB)
11000	UG/KG	4-BROMOPHENYL PHENYL ETHER
11000.1	UG/KG	PHENANTHRENE
11000	UG/KG	ANTHRACENE
590.1	UG/KG	DI-N-BUTYLPHTHALATE
530J	UG/KG	FLUORANTHENE
11000	UG/KG	PYRENE
11000	UG/KG	BENZYL BUTYL PHTHALATE
2400J	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
11000	UG/KG	BENZO(A)ANTHRACENE
11000	UG/KG	CHRYSENE
11000	UG/KG	3,3'-DICHLOROBENZIDINE
11000	UG/KG	DI-N-OCTYLPHTHALATE
11000	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
11000	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
11000.1	UG/KG	BENZO-A-PYRENE
11000	UG/KG	INDENO (1,2,3-CD) PYRENE
11000	UG/KG	DIBENZO(A,H)ANTHRACENE
11000	UG/KG	BENZO(GHI)PERYLENE
11000	UG/KG	2-CHLOROPHENOL
11000	UG/KG	2-NITROPHENOL
11000	UG/KG	PHENOL
11000	UG/KG	2,4-DIMETHYLPHENOL
11000	UG/KG	2,4-DICHLOROPHENOL
11000	UG/KG	2,4,6-TRICHLOROPHENOL
11000	UG/KG	4-CHLORO-3-METHYLPHENOL
56000	UG/KG	2,4-DINITROPHENOL
56000	UG/KG	4-METHYL-4,6-DINITROPHENOL
56000	UG/KG	PENTACHLOROPHENOL
56000	UG/KG	4-NITROPHENOL
70	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/95 EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: HSF
SOURCE: ADJACENT SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/95
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 1006 ORG SAMPLE NO: D2268 INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NWAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKH

HIGHLIGHTS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED DETECTION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
6800	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
6800	UG/KG	1,3-DICHLOROBENZENE
6800	UG/KG	1,4-DICHLOROBENZENE
6800	UG/KG	1,2-DICHLOROBENZENE
6800	UG/KG	BIS(2-CHLOROETHYL) ETHER
6800	UG/KG	HEXACHLOROETHANE
6800	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
6800	UG/KG	N-NITROSODI-N-PROPYLAMINE
6800	UG/KG	NITROBENZENE
6800	UG/KG	HEXACHLOROBUTADIENE
6800	UG/KG	1,2,4-TRICHLOROBENZENE
6800	UG/KG	NAPHTHALENE
6800	UG/KG	BIS(2-CHLOROETHOXY) METHANE
6800	UG/KG	ISOPHORONE
6800	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
6800	UG/KG	2-CHLORONAPHTHALENE
6800	UG/KG	ACENAPHTHYLENE
6800	UG/KG	ACENAPHTHENE
6800	UG/KG	DIMETHYL PHTHALATE
6800	UG/KG	2,4-DINITROTOLUENE
6800	UG/KG	2,6-DINITROTOLUENE
6800	UG/KG	4-CHLOROPHENYL PHENYL ETHER
6800	UG/KG	FLUORENE
6800	UG/KG	DIETHYL PHTHALATE
6800	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
6800	UG/KG	HEXACHLOROBENZENE (HCB)
6800	UG/KG	4-BROMOPHENYL PHENYL ETHER
6800J	UG/KG	PHENANTHRENE
6800	UG/KG	ANTHRACENE
6800	UG/KG	DI-N-BUTYLPHTHALATE
6800J	UG/KG	FLUORANTHENE
6800	UG/KG	PYRENE
6800	UG/KG	BENZYL BUTYL PHTHALATE
5000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
6800	UG/KG	BENZO(A)ANTHRACENE
6800	UG/KG	CHRYSENE
14000	UG/KG	3,3'-DICHLOROBENZIDINE
6800	UG/KG	DI-N-OCTYLPHTHALATE
6800	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6800	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
6800J	UG/KG	BENZO-A-PYRENE
6800	UG/KG	INDENO (1,2,3-CD) PYRENE
6800	UG/KG	DIBENZO(A,H)ANTHRACENE
6800	UG/KG	BENZO(GHI)PERYLENE
6800	UG/KG	2-CHLOROPHENOL
6800	UG/KG	2-NITROPHENOL
6800	UG/KG	PHENOL
6800	UG/KG	2,4-DIMETHYLPHENOL
6800	UG/KG	2,4-DICHLOROPHENOL
6800	UG/KG	2,4,6-TRICHLOROPHENOL
6800	UG/KG	4-CHLORO-3-METHYLPHENOL
34000	UG/KG	2,4-DINITROPHENOL
34000	UG/KG	2-METHYL-4,6-DINITROPHENOL
34000	UG/KG	PENTACHLOROPHENOL
34000	UG/KG	4-NITROPHENOL
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: R5-060 PROGRAM ELEMENT: HSF
SOURCE: AQUADOCE SITE
CITY: OCCATOE STATE: AL

STATION I.D.: AD-02-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H BAUSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SPAR.NO:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 3006 REG SAMPLE NO: 02269 ENVIRG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *INT-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
7400	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
7400	UG/KG	1,3-DICHLOROBENZENE
7400	UG/KG	1,4-DICHLOROBENZENE
7400	UG/KG	1,2-DICHLOROBENZENE
7400	UG/KG	BIS(2-CHLOROETHYL) ETHER
7400	UG/KG	HEXACHLOROETHANE
7400	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
7400	UG/KG	N-NITROSODI-N-PROPYLAMINE
7400	UG/KG	NITROBENZENE
7400	UG/KG	HEXACHLOROBUTADIENE
7400	UG/KG	1,2,4-TRICHLOROBENZENE
7400	UG/KG	NAPHTHALENE
7400	UG/KG	BIS(2-CHLOROETHOXY) METHANE
7400	UG/KG	ISOPHORONE
7400	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
7400	UG/KG	2-CHLORONAPHTHALENE
7400	UG/KG	ACENAPHTHYLENE
7400	UG/KG	ACENAPHTHENE
7400	UG/KG	DIMETHYL PHTHALATE
7400	UG/KG	2,4-DINITROTOLUENE
7400	UG/KG	2,6-DINITROTOLUENE
7400	UG/KG	4-CHLOROPHENYL PHENYL ETHER
7400	UG/KG	FLUORENE
7400	UG/KG	DIETHYL PHTHALATE
7400	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
7400	UG/KG	HEXACHLOROBENZENE (HCB)
7400	UG/KG	4-BROMOPHENYL PHENYL ETHER
7400J	UG/KG	PHENANTHRENE
7400	UG/KG	ANTHRACENE
7400	UG/KG	DI-N-BUTYLPHTHALATE
7400J	UG/KG	FLUORANTHENE
7400	UG/KG	PYRENE
7400	UG/KG	BENZYL BUTYL PHTHALATE
3403	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
7400	UG/KG	BENZO(A)ANTHRACENE
7400	UG/KG	CHRYSENE
1500	UG/KG	3,3'-DICHLOROBENZIDINE
7400	UG/KG	DI-N-OCTYLPHTHALATE
7400	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
7400	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
7400J	UG/KG	BENZO-A-PYRENE
7400	UG/KG	INDENO (1,2,3-CD) PYRENE
7400	UG/KG	DIBENZO(A,H)ANTHRACENE
7400	UG/KG	BENZO(GHI)PERYLENE
7400	UG/KG	2-CHLOROPHENOL
7400	UG/KG	2-NITROPHENOL
7400	UG/KG	PHENOL
7400	UG/KG	2,4-DIMETHYLPHENOL
7400	UG/KG	2,4-DICHLOROPHENOL
7400	UG/KG	2,4,6-TRICHLOROPHENOL
7400	UG/KG	4-CHLORO-3-METHYLPHENOL
37000	UG/KG	2,4-DINITROPHENOL
37000	UG/KG	2-METHYL-4,6-DINITROPHENOL
37000	UG/KG	PENTACHLOROPHENOL
37000	UG/KG	4-NITROPHENOL
55	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,RTP, IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-080 PROGRAM ELEMENT: NSF
SOURCE: AQUADOAE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-03-85
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE RECVD: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHECKED:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02272 INORG SAMPLE NO.: MSC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NRAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PEH DATA VERIFIED BY: GFH

****CAPAS****

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FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
680U	UG/KG	N-NITROSODIMETHYLAMINE
NA	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
680U	UG/KG	1,3-DICHLOROBENZENE
680U	UG/KG	1,4-DICHLOROBENZENE
680U	UG/KG	1,2-DICHLOROBENZENE
680U	UG/KG	BIS(2-CHLOROETHYL) ETHER
680U	UG/KG	HEXACHLOROETHANE
680U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
680U	UG/KG	N-NITROSODI-N-PROPYLAMINE
680U	UG/KG	NITROBENZENE
680U	UG/KG	HEXACHLOROBUTADIENE
680U	UG/KG	1,2,4-TRICHLOROBENZENE
680U	UG/KG	NAPHTHALENE
680U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
680U	UG/KG	ISOPHORONE
680U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
680U	UG/KG	2-CHLORONAPHTHALENE
680U	UG/KG	ACENAPHTHYLENE
680U	UG/KG	ACENAPHTHENE
680U	UG/KG	DIMETHYL PHTHALATE
680U	UG/KG	2,4-DINITROTOLUENE
680U	UG/KG	2,6-DINITROTOLUENE
680U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
680U	UG/KG	FLUORENE
680U	UG/KG	DIETHYL PHTHALATE
680U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
680U	UG/KG	HEXACHLOROBENZENE (HCB)
680U	UG/KG	4-BROMOPHENYL PHENYL ETHER
680UJ	UG/KG	PHENANTHRENE
680U	UG/KG	ANTHRACENE
680U	UG/KG	DI-N-BUTYLPHTHALATE
680UJ	UG/KG	FLUORANTHENE
680U	UG/KG	PYRENE
680U	UG/KG	BENZYL BUTYL PHTHALATE
680UJ	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
680U	UG/KG	BENZO(A)ANTHRACENE
680U	UG/KG	CHRYSENE
680U	UG/KG	3,3'-DICHLOROBENZIDINE
680U	UG/KG	DI-N-OCTYLPHTHALATE
680U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
680U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
680UJ	UG/KG	BENZO-A-PYRENE
680U	UG/KG	INDENO (1,2,3-CD) PYRENE
680U	UG/KG	DIBENZO(A,H)ANTHRACENE
680U	UG/KG	BENZO(GHI)PERYLENE
680U	UG/KG	2-CHLOROPHENOL
680U	UG/KG	2-NITROPHENOL
680U	UG/KG	PHENOL
680U	UG/KG	2,4-DIMETHYLPHENOL
680U	UG/KG	2,4-DICHLOROPHENOL
680U	UG/KG	2,4,6-TRICHLOROPHENOL
680U	UG/KG	4-CHLORO-3-METHYLPHENOL
3400U	UG/KG	2,4-DINITROPHENOL
3400U	UG/KG	2-METHYL-4,6-DINITROPHENOL
3400U	UG/KG	PENTACHLOROPHENOL
3400U	UG/KG	4-NITROPHENOL
50	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85

EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: ASC 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDA645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
390U	UG/KG	N-NITROSODIMETHYLAMINE
NR	UG/KG	1,2-DIPHENYLHYDRAZINE/AZOBENZENE
NA	UG/KG	BENZIDINE
390U	UG/KG	1,3-DICHLOROBENZENE
390U	UG/KG	1,4-DICHLOROBENZENE
390U	UG/KG	1,2-DICHLOROBENZENE
390U	UG/KG	BIS(2-CHLOROETHYL) ETHER
390U	UG/KG	HEXACHLOROETHANE
390U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
390U	UG/KG	N-NITROSODI-N-PROPYLAMINE
390U	UG/KG	NITROBENZENE
390U	UG/KG	HEXACHLOROBUTADIENE
390U	UG/KG	1,2,4-TRICHLOROBENZENE
390U	UG/KG	NAPHTHALENE
390U	UG/KG	BIS(2-CHLOROETHOXY) METHANE
390U	UG/KG	ISOPHORONE
390U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
390U	UG/KG	2-CHLORONAPHTHALENE
390U	UG/KG	ACENAPHTHYLENE
390U	UG/KG	ACENAPHTHENE
390U	UG/KG	DIMETHYL PHTHALATE
390U	UG/KG	2,4-DINITROTOLUENE
390U	UG/KG	2,6-DINITROTOLUENE
390U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
390U	UG/KG	FLUORENE
390U	UG/KG	DIETHYL PHTHALATE
390U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
390U	UG/KG	HEXACHLOROBENZENE (HCB)
390U	UG/KG	4-BROMOPHENYL PHENYL ETHER
390UJ	UG/KG	PHENANTHRENE
390U	UG/KG	ANTHRACENE
390U	UG/KG	DI-N-BUTILPHTHALATE
390UJ	UG/KG	FLUORANTHENE
390U	UG/KG	PYRENE
390U	UG/KG	BENZYL BUTYL PHTHALATE
390UJ	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
390U	UG/KG	BENZO(A)ANTHRACENE
390U	UG/KG	CHRYSENE
780U	UG/KG	3,3'-DICHLOROBENZIDINE
390U	UG/KG	DI-N-OCTYLPHTHALATE
390U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
390U	UG/KG	BENZO(B AND/OR K)FLUORANTHENE
390U	UG/KG	BENZO-A-PYRENE
390U	UG/KG	INDENO (1,2,3-CD) PYRENE
390U	UG/KG	DIBENZO(A,H)ANTHRACENE
390U	UG/KG	BENZO(GHI)PERYLENE
390U	UG/KG	2-CHLOROPHENOL
390U	UG/KG	2-NITROPHENOL
390U	UG/KG	PHENOL
390U	UG/KG	2,4-DIMETHYLPHENOL
390U	UG/KG	2,4-DICHLOROPHENOL
390U	UG/KG	2,4,6-TRICHLOROPHENOL
390U	UG/KG	4-CHLORO-3-METHYLPHENOL
2000U	UG/KG	2,4-DINITROPHENOL
2000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
2000U	UG/KG	PENTACHLOROPHENOL
2000U	UG/KG	4-NITROPHENOL
14	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-R&D,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FB-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
2000U	BENZOIC ACID
390U	2-METHYLPHENOL
390U	4-METHYLPHENOL
2000U	2,4,5-TRICHLOROPHENOL
390U	ANILINE
390U	BENZYL ALCOHOL
390U	4-CHLOROANILINE
390U	DIBENZOFURAN
390U	2-METHYL NAPHTHALENE
2000U	2-NITROANILINE
2000U	3-NITROANILINE
2000U	4-NITROANILINE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*G=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7662 SAMPLE TYPE: SOILSPK

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L5-95 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 6006 ORG SAMPLE NO: DB502 INORG SAMPLE NO.: ND
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
1900U	BENZOIC ACID
390U	2-METHYLPHENOL
390U	4-METHYLPHENOL
1400J	2,4,5-TRICHLOROPHENOL
390U	ANILINE
390U	BENZYL ALCOHOL
390U	4-CHLOROANILINE
390U	DIBENZOFURAN
390U	2-METHYL NAPHTHALENE
1900U	2-NITROANILINE
1900U	3-NITROANILINE
1900U	4-NITROANILINE

****

FOOTNOTES
*B=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADIADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-15
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2765 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	IN: UG/KG	COMPOUND NAME
3400U		BENZOIC ACID
670U		2-METHYLPHENOL
670		4-METHYLPHENOL
3400U		2,4,5-TRICHLOROPHENOL
670U		ANILINE
670U		BENZYL ALCOHOL
670U		4-CHLOROANILINE
670U		DIBENZOFURAN
670U		2-METHYL NAPHTHALENE
3400U		2-NITROANILINE
3400U		3-NITROANILINE
3400U		4-NITROANILINE
10000J		3 UNIDENTIFIED COMPOUNDS
N		PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADDADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D276R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3400U	BENZOIC ACID
680U	2-METHYLPHENOL
680U	4-METHYLPHENOL
3400U	2,4,5-TRICHLOROPHENOL
680U	ANILINE
680U	BENZYL ALCOHOL
680U	4-CHLOROANILINE
680U	DIBENZOFURAN
680U	2-METHYL NAPHTHALENE
3400U	2-NITROANILINE
3400U	3-NITROANILINE
3400U	4-NITROANILINE
3000JN	METHYLBENZENESULFONAMIDE
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD, REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADAMDINE SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3700U	BENZOIC ACID
740U	2-METHYLPHENOL
740U	4-METHYLPHENOL
3700U	2,4,5-TRICHLOROPHENOL
740U	ANILINE
740U	BENZYL ALCOHOL
740U	4-CHLOROANILINE
740U	DIBENZOFURAN
740U	2-METHYL NAPHTHALENE
3700U	2-NITROANILINE
3700U	3-NITROANILINE
3700U	4-NITROANILINE
3000J	5 UNIDENTIFIED COMPOUNDS

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7650 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: HSF
SOURCE: ADDADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-68
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2772 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKA

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
3400U	BENZOIC ACID
680U	2-METHYLPHENOL
680U	4-METHYLPHENOL
3400U	2,4,5-TRICHLOROPHENOL
680U	ANILINE
680U	BENZYL ALCOHOL
680U	4-CHLOROANILINE
680U	DIBENZOFURAN
680U	2-METHYL NAPHTHALENE
3400U	2-NITROANILINE
3400U	3-NITROANILINE
3400U	4-NITROANILINE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG.IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSP
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A18
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2777 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
140000U	BENZOIC ACID
27000U	2-METHYLPHENOL
27000U	4-METHYLPHENOL
140000U	2,4,5-TRICHLOROPHENOL
27000U	ANILINE
27000U	BENZYL ALCOHOL
27000U	4-CHLOROANILINE
27000U	DIBENZOFURAN
27000U	2-METHYL NAPHTHALENE
140000U	2-NITROANILINE
140000U	3-NITROANILINE
140000U	4-NITROANILINE
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 EXTRACTABLE ORGANIC ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: R5C 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADOADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE,/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
5600U	BENZOIC ACID
1100U	2-METHYLPHENOL
900J	4-METHYLPHENOL
5600U	2,4,5-TRICHLOROPHENOL
1100U	ANILINE
1100U	BENZYL ALCOHOL
1100U	4-CHLOROANILINE
1100U	DIBENZOFURAN
1100U	2-METHYL NAPHTHALENE
5600U	2-NITROANILINE
5600U	3-NITROANILINE
5600U	4-NITROANILINE
20000J	5 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT

****

FOOTNOTES
*A=AVERAGE VALUE *NR=NOT ANALYZED *NAI=INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE MINIMUM DETECTION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: OSF
SOURCE: ADJACENT SITE
CITY: DECATUR STATE: AL

STATION I.D.: MD-A15
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: W HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W W
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
3200	UG/KG	ALDRIN
3200	UG/KG	HEPTACHLOR
3200	UG/KG	HEPTACHLOR EPOXIDE
3200	UG/KG	ALPHA-BHC
3200	UG/KG	BETA-BHC
3200	UG/KG	GAMMA-BHC (LINDANE)
3200	UG/KG	DELTA-BHC
3200	UG/KG	ENDOSULFAN I (ALPHA)
6500	UG/KG	DIELDRIN
6500	UG/KG	4,4'-DDT (P,P'-DDT)
6500	UG/KG	4,4'-DDE (P,P'-DDE)
6500	UG/KG	4,4'-DDD (P,P'-DDD)
6500	UG/KG	ENDRIN
6500	UG/KG	ENDOSULFAN II (BETA)
6500	UG/KG	ENDOSULFAN SULFATE
32000	UG/KG	CHLORDANE (TECH. MIXTURE) /1
32000	UG/KG	PCB-1242 (AROCLOR 1242)
9400J	UG/KG	PCB-1254 (AROCLOR 1254)
32000	UG/KG	PCB-1221 (AROCLOR 1221)
32000	UG/KG	PCB-1232 (AROCLOR 1232)
32000	UG/KG	PCB-1248 (AROCLOR 1248)
65000	UG/KG	PCB-1260 (AROCLOR 1260)
32000	UG/KG	PCB-1016 (AROCLOR 1016)
65000	UG/KG	TOXAPHENE
6500	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXICHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
32000	UG/KG	METHOXYCHLOR
6500	UG/KG	ENDRIN KETONE
26	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED METHOD QUANTITATION LIMIT.
1. NO NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CO-SYNERGISTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: RSE
SOURCE: AGRADUCE SITE
CITY: DECATUR STATE: FL

STATION I.D.: AD-RS-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: H HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W B
ANALYTICAL METHOD:

CASE NO.: 4606 ORG SAMPLE NO: D2265 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORG,AGIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKH

PESTICIDES

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.0U	UG/KG	ALDRIN
4.0U	UG/KG	HEPTACHLOR
4.0U	UG/KG	HEPTACHLOR EPOXIDE
4.0U	UG/KG	ALPHA-BHC
4.0U	UG/KG	BETA-BHC
4.0U	UG/KG	GAMMA-BHC (LINDANE)
4.0U	UG/KG	DELTA-BHC
4.0U	UG/KG	ENDOSULFAN I (ALPHA)
58	UG/KG	DIELDRIN
8.0U	UG/KG	4,4'-DDT (P,P'-DDT)
8.0U	UG/KG	4,4'-DDE (P,P'-DDE)
8.0U	UG/KG	4,4'-DDD (P,P'-DDD)
8.0U	UG/KG	ENDRIN
8.0U	UG/KG	ENDOSULFAN II (BETA)
8.0U	UG/KG	ENDOSULFAN SULFATE
180JN	UG/KG	CHLORDANE (TECH. MIXTURE) /1
400	UG/KG	PCB-1242 (AROCLOR 1242)
400J	UG/KG	PCB-1254 (AROCLOR 1254)
400	UG/KG	PCB-1221 (AROCLOR 1221)
400	UG/KG	PCB-1232 (AROCLOR 1232)
400	UG/KG	PCB-1248 (AROCLOR 1248)
400	UG/KG	PCB-1260 (AROCLOR 1260)
400	UG/KG	PCB-1016 (AROCLOR 1016)
400	UG/KG	TOXAPHENE
8.0U	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
400	UG/KG	METHOXYCHLOR
8.0U	UG/KG	ENDRIN KETONE
58	%	MOISTURE

****

FOOTNOTES
#A=AVERAGE VALUE #NA=NOT ANALYZED #NAI=INTERFERENCES
#J=ESTIMATED VALUE #P=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#U=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED METHOD QUANTITATION LIMIT.
1. SUM OF VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OF METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,DEG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: HS-060 PROGRAM ELEMENT: HSF
SOURCE: MORGANS SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 3065 ORG SAMPLE NO: D8366 INORG SAMPLE NO.: MOC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): NEAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GKR

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
130	UG/KG	ALDRIN
130	UG/KG	HEPTACHLOR
130	UG/KG	HEPTACHLOR EPOXIDE
130	UG/KG	ALPHA-BHC
130	UG/KG	BETA-BHC
130	UG/KG	GAMMA-BHC (LINDANE)
130	UG/KG	DELTA-BHC
130	UG/KG	ENDOSULFAN I (ALPHA)
60	UG/KG	DIELDRIN
260	UG/KG	4,4'-DDT (P,P'-DDT)
260	UG/KG	4,4'-DDE (P,P'-DDE)
260	UG/KG	4,4'-DDD (P,P'-DDD)
260	UG/KG	ENDRIN
260	UG/KG	ENDOSULFAN II (BETA)
260	UG/KG	ENDOSULFAN SULFATE
1300	UG/KG	CHLORDANE (TECH. MIXTURE) /1
1300	UG/KG	PCB-1242 (AROCLOR 1242)
2600	UG/KG	PCB-1254 (AROCLOR 1254)
1300	UG/KG	PCB-1221 (AROCLOR 1221)
1300	UG/KG	PCB-1232 (AROCLOR 1232)
1300	UG/KG	PCB-1248 (AROCLOR 1248)
2600	UG/KG	PCB-1260 (AROCLOR 1260)
1300	UG/KG	PCB-1016 (AROCLOR 1016)
2600	UG/KG	TOXAPHENE
260	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
1300	UG/KG	METHOXYCHLOR
260	UG/KG	ENDRIN KETONE
70	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *I,AI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ACHEON GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: HSF
SOURCE: ADRIDOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-01-45
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2268 INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GRH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.00	UG/KG	ALDRIN
4.00	UG/KG	HEPTACHLOR
4.00	UG/KG	HEPTACHLOR EPOXIDE
4.00	UG/KG	ALPHA-BHC
4.00	UG/KG	BETA-BHC
4.00	UG/KG	GAMMA-BHC (LINDANE)
4.00	UG/KG	DELTA-BHC
4.00	UG/KG	ENDOSULFAN I (ALPHA)
8.00	UG/KG	DIELDRIN
8.00	UG/KG	4,4'-DDT (P,P'-DDT)
8.00	UG/KG	4,4'-DDE (P,P'-DDE)
8.00	UG/KG	4,4'-DDD (P,P'-DDD)
8.00	UG/KG	ENDRIN
8.00	UG/KG	ENDOSULFAN II (BETA)
8.00	UG/KG	ENDOSULFAN SULFATE
400	UG/KG	CHLORDANE (TECH. MIXTURE) /1
400	UG/KG	PCB-1242 (AROCLOR 1242)
800.1	UG/KG	PCB-1254 (AROCLOR 1254)
400	UG/KG	PCB-1221 (AROCLOR 1221)
400	UG/KG	PCB-1232 (AROCLOR 1232)
400	UG/KG	PCB-1248 (AROCLOR 1248)
800	UG/KG	PCB-1260 (AROCLOR 1260)
400	UG/KG	PCB-1016 (AROCLOR 1016)
800	UG/KG	TOXAPHENE
8.00	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
400	UG/KG	METHOXYCHLOR
8.00	UG/KG	ENDRIN KETONE
50	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: HS-060 PROGRAM ELEMENT: HSF
SOURCE: AGRICULT SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/21/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: D HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: M J
ANALYTICAL METHOD:

CASE NO.: 0006 ORG SAMPLE NO: D2269 ORG SAMPLE NO.: MDC057
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: GKH

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND	
4.4U	UG/KG	ALDRIN	
4.4U	UG/KG	HEPTACHLOR	
4.4U	UG/KG	HEPTACHLOR EPOXIDE	
4.4U	UG/KG	ALPHA-BHC	
4.4U	UG/KG	BETA-BHC	
4.4U	UG/KG	GAMMA-BHC (LINDANE)	
4.4U	UG/KG	DELTA-BHC	
4.4U	UG/KG	ENDOSULFAN I (ALPHA)	
7.0J	UG/KG	DIELDRIN	
8.8U	UG/KG	4,4'-DDT (P,P'-DDT)	
8.8U	UG/KG	4,4'-DDE (P,P'-DDE)	
8.8U	UG/KG	4,4'-DDD (P,P'-DDD)	
8.8U	UG/KG	ENDRIN	
8.8U	UG/KG	ENDOSULFAN II (BETA)	
8.8U	UG/KG	ENDOSULFAN SULFATE	
88U	UG/KG	CHLORDANE (TECH. MIXTURE)	/1
44U	UG/KG	PCB-1242 (AROCLOR 1242)	
88U	UG/KG	PCB-1254 (AROCLOR 1254)	
44U	UG/KG	PCB-1221 (AROCLOR 1221)	
44U	UG/KG	PCB-1232 (AROCLOR 1232)	
44U	UG/KG	PCB-1248 (AROCLOR 1248)	
88U	UG/KG	PCB-1260 (AROCLOR 1260)	
44U	UG/KG	PCB-1016 (AROCLOR 1016)	
88U	UG/KG	TOXAPHENE	
8.8U	UG/KG	ENDRIN ALDEHYDE	
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)	
--	UG/KG	CHLORDENE /2	
--	UG/KG	ALPHA-CHLORDENE /2	
--	UG/KG	GAMMA-CHLORDENE /2	
--	UG/KG	1-HYDROXYCHLORDENE /2	
--	UG/KG	GAMMA-CHLORDANE /2	
--	UG/KG	TRANS-NONACHLOR /2	
--	UG/KG	ALPHA-CHLORDANE /2	
--	UG/KG	CIS-NONACHLOR /2	
44U	UG/KG	METHOXYCHLOR	
8.8U	UG/KG	ENDRIN KETONE	
5%	%	MOISTURE	

****

FOOTNOTES
#A-AVERAGE VALUE #NA-NOT ANALYZED #NAI-INTERFERENCES
#J-ESTIMATED VALUE #N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
#K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
#U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. DUE TO NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CO-CONTAMINANTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-LSD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: MSE
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-6S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
4.0U	UG/KG	ALDRIN
4.0U	UG/KG	HEPTACHLOR
4.0U	UG/KG	HEPTACHLOR EPOXIDE
4.0U	UG/KG	ALPHA-BHC
4.0U	UG/KG	BETA-BHC
4.0U	UG/KG	GAMMA-BHC (LINDANE)
4.0U	UG/KG	DELTA-BHC
4.0U	UG/KG	ENDOSULFAN I (ALPHA)
8.0U	UG/KG	DIELDRIN
8.0U	UG/KG	4,4'-DDT (P,P'-DDT)
8.0U	UG/KG	4,4'-DDE (P,P'-DDE)
8.0U	UG/KG	4,4'-DDD (P,P'-DDD)
8.0U	UG/KG	ENDRIN
8.0U	UG/KG	ENDOSULFAN II (BETA)
8.0U	UG/KG	ENDOSULFAN SULFATE
40U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
40U	UG/KG	PCB-1242 (AROCLOR 1242)
80U	UG/KG	PCB-1254 (AROCLOR 1254)
40U	UG/KG	PCB-1221 (AROCLOR 1221)
40U	UG/KG	PCB-1232 (AROCLOR 1232)
40U	UG/KG	PCB-1248 (AROCLOR 1248)
80U	UG/KG	PCB-1260 (AROCLOR 1260)
40U	UG/KG	PCB-1016 (AROCLOR 1016)
80U	UG/KG	TOXAPHENE
8.0U	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
40U	UG/KG	METHOXYCHLOR
8.0U	UG/KG	ENDRIN KETONE
50	%	MOISTURE

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: HSC 7662 SAMPLE TYPE: SOILSPK

PROJECT NO.: 45-060 PROGRAM ELEMENT: HSF
SOURCE: AGRADUCT SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LS-95 (REGION IV QC SPIKE)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE RECD: DATE/TIME 00/00/00 RECD BY:
SEALED:

CHEMIST: M P
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: F0502 INORG SAMPLE NO.: NU
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC):

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PGH DATA VERIFIED BY: GAP

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2.30	UG/KG	ALDRIN
2.30	UG/KG	HEPTACHLOR
2.30	UG/KG	HEPTACHLOR EPOXIDE
2.30	UG/KG	ALPHA-BHC
2.30	UG/KG	BETA-BHC
100%	UG/KG	GAMMA-BHC (LINDANE)
2.30	UG/KG	DELTA-BHC
2.30	UG/KG	ENDOSULFAN I (ALPHA)
4.60	UG/KG	DIELDRIN
4.60	UG/KG	4,4'-DDT (P,P'-DDT)
4.60	UG/KG	4,4'-DDE (P,P'-DDE)
4.60	UG/KG	4,4'-DDD (P,P'-DDD)
4.60	UG/KG	ENDRIN
4.60	UG/KG	ENDOSULFAN II (BETA)
4.60	UG/KG	ENDOSULFAN SULFATE
230	UG/KG	CHLORDANE (TECH. MIXTURE) /1
230	UG/KG	PCB-1242 (AROCLOR 1242)
1750	UG/KG	PCB-1254 (AROCLOR 1254)
230	UG/KG	PCB-1221 (AROCLOR 1221)
230	UG/KG	PCB-1232 (AROCLOR 1232)
230	UG/KG	PCB-1248 (AROCLOR 1248)
460	UG/KG	PCB-1260 (AROCLOR 1260)
230	UG/KG	PCB-1016 (AROCLOR 1016)
460	UG/KG	TOXAPHENE
4.60	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
230	UG/KG	METHOXYCHLOR
4.60	UG/KG	ENDRIN KETONE
13	%	MOISTURE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED DETECTION QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PESTICIDES/PCB'S AND OTHER CHLORINATED COMPOUNDS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADUADOCE SITE
CITY: [illegible] STATE: AL

STATION I.D.: AD-ES-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: [illegible] RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: [illegible]
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D8501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKB

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.
2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	COMPOUND
2.3U	UG/KG	ALDRIN
2.3U	UG/KG	HEPTACHLOR
2.3U	UG/KG	HEPTACHLOR EPOXIDE
2.3U	UG/KG	ALPHA-BHC
2.3U	UG/KG	BETA-BHC
2.3U	UG/KG	GAMMA-BHC (LINDANE)
2.3U	UG/KG	DELTA-BHC
2.3U	UG/KG	ENDOSULFAN I (ALPHA)
4.6U	UG/KG	DIELDRIN
4.6U	UG/KG	4,4'-DDT (P,P'-DDT)
4.6U	UG/KG	4,4'-DDE (P,P'-DDE)
4.6U	UG/KG	4,4'-DDD (P,P'-DDD)
4.6U	UG/KG	ENDRIN
4.6U	UG/KG	ENDOSULFAN II (BETA)
4.6U	UG/KG	ENDOSULFAN SULFATE
23U	UG/KG	CHLORDANE (TECH. MIXTURE) /1
23U	UG/KG	PCB-1242 (AROCLOR 1242)
460J	UG/KG	PCB-1254 (AROCLOR 1254)
23U	UG/KG	PCB-1221 (AROCLOR 1221)
23U	UG/KG	PCB-1232 (AROCLOR 1232)
23U	UG/KG	PCB-1248 (AROCLOR 1248)
46U	UG/KG	PCB-1260 (AROCLOR 1260)
23U	UG/KG	PCB-1016 (AROCLOR 1016)
46U	UG/KG	TOXAPHENE
4.6U	UG/KG	ENDRIN ALDEHYDE
NA	UG/KG	2,3,7,8 TCDD(DIOXIN)
--	UG/KG	CHLORDENE /2
--	UG/KG	ALPHA-CHLORDENE /2
--	UG/KG	GAMMA-CHLORDENE /2
--	UG/KG	1-HYDROXYCHLORDENE /2
--	UG/KG	GAMMA-CHLORDANE /2
--	UG/KG	TRANS-NONACHLOR /2
--	UG/KG	ALPHA-CHLORDANE /2
--	UG/KG	CIS-NONACHLOR /2
23U	UG/KG	METHOXYCHLOR
4.6U	UG/KG	ENDRIN KETONE
14	%	MOISTURE

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.9400	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AOJADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: K HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2269 INORG SAMPLE NO.: MDC067
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS
THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.8500	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: ADJACENT SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-LJ-65
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2772 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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*L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.680J	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: BSC 7659 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-A1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2277 INORG SAMPLE NO.: MDC074
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

****

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
1.6UJ	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: 85C 7660 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-DS-3S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: M HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB466 INORG SAMPLE NO.: MDC100
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: RWK

REMARKS

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FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.660J	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: BSC 7661 SAMPLE TYPE: BLKSOIL

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-FS-08 (REGION IV QC BLANK)
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/24/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: DB501 INORG SAMPLE NO.: MDB645
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: PWK

REMARKS

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FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,PEG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.9603	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: ASC 7655 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-US-1S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D2765 INORG SAMPLE NO.: MDC062
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): AMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: RWK

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE ESTIMATED MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

*****ANALYTICAL RESULTS*****

RESULTS	UNITS	PARAMETER	STORET
0.750J	MG/KG	CYANIDE	00721

12/11/85

SPECIFIED ANALYSIS
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: BSC 7656 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOME SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-D1-4S
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: B HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST: W R CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: D226R INORG SAMPLE NO.: MDC065
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLH DATA VERIFIED BY: PWK

REMARKS

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FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7657 SAMPLE TYPE: SEDIM

PROJECT NO.: RS-060 PROGRAM ELEMENT: HSF
SOURCE: ADJACENT SITE
CITY: DECATUR STATE: AL

STATION I.D.: A0-L2-SS
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 08/23/85
SAMPLE COLLECTED: STOP DATE/TIME 00/00/00

COLLECTED BY: S HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4006 ORG SAMPLE NO: 02269 INORG SAMPLE NO.: MLC067
CONTRACT LABORATORY(ORGANIC): COMPCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLR DATA VERIFIED BY: GAR

PREVIOUS

*****ANALYTICAL RESULTS*****

RESULTS IN: UG/KG	COMPOUND NAME
22U	ACETONE
22U	METHYL ETHYL KETONE
22U	CARBON DISULFIDE
22U	METHYL BUTYL KETONE
22U	METHYL ISOBUTYL KETONE
22U	STYRENE
22U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	FLUOROTRICHLOROMETHANE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES
*J-ESTIMATED VALUE *U-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-ESD,REG IV
ATHENS GEORGIA

10/23/85 PURGEABLE ORGANICS ANALYSIS, MISC
SEDIMENT/SOIL/SLUDGE(DRY WT)

SAMPLE NO.: RSC 7658 SAMPLE TYPE: SEDIM

PROJECT NO.: 85-060 PROGRAM ELEMENT: NSF
SOURCE: AQUADOOF SITE
CITY: DECATUR STATE: AL

STATION I.D.: AD-L3-65
STORET STATION NO:

SAMPLE COLLECTION: START DATE/TIME 04/23/85
SAMPLE COLLECTION: STOP DATE/TIME 00/00/00

COLLECTED BY: R HANSEN RECEIVED FROM:
SAMPLE REC'D: DATE/TIME 00/00/00 REC'D BY:
SEALED:

CHEMIST:
ANALYTICAL METHOD:

CASE NO.: 4396 ORG SAMPLE NO: 02272 INORG SAMPLE NO.: MDC069
CONTRACT LABORATORY(ORGANIC): COMPUCHEM
CONTRACT LABORATORY(INORGANIC): RMAL

REMARK:
REMARK:

SAMPLE LOG VERIFIED BY: PLB DATA VERIFIED BY: GKD

REMARKS

*****ANALYTICAL RESULTS*****

RESULTS	IN: UG/KG COMPOUND NAME
20U	ACETONE
20U	METHYL ETHYL KETONE
20U	CARBON DISULFIDE
20U	METHYL BUTYL KETONE
20U	METHYL ISOBUTYL KETONE
20U	STYRENE
20U	VINYL ACETATE
NA	DICHLORODIFLUOROMETHANE
NA	TRICHLOROFLUOROMETHANE

****

FOOTNOTES
*A=AVERAGE VALUE *NA=NOT ANALYZED *NAI=INTERFERENCES
*J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-13
July, 1981

AQUADOME SITE DECATUR, AL MORGAN COUNTY
TDD No. F4-8504-02 ID No. ALD980842512

EPA

Potential Hazardous Waste Site

Site Inspection Report

[redacted]

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					
AQUADOME SITE	1501 5th Ave., S.W.					
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
DECATUR	AL	35601	MORGAN	103	05

09 COORDINATES: LATITUDE 34N 35' 30" | LONGITUDE 86W 59' 30"

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☑ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
4, 22, 85 (MONTH DAY YEAR)	☐ ACTIVE ☑ INACTIVE	approx. 1944 (BEGINNING YEAR) 1964 (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☑ B. EPA CONTRACTOR NUS Corporation (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
BARBARA HANSEN BENOY	PROJECT MANAGER	NUS Corp.	(404) 938-7710
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
PHIL BLACKWELL	TEAM MEMBER	"	( ) "
DOUG MUNSON	"	"	( ) "
BOB DONAGHUE	"	"	( ) "
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
BILL DUKES	MAYOR	CITY HALL, DECATUR	(205) 355-7410
JOEL PUGH	CITY ENGINEER	MABRY ENGINEERING	(205) 353-3937
		1740 5th Ave., S.E.	( )
		DECATUR, AL 35602	( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	755 hrs.	75°F - clear, sunny

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
CAMILLA WARREN	EPA-REGION III - ATLANTA, GA	(404) 347-2034

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KATHARINE FENLEY	-	NUS CORP.	404/938-7710	04, 02, 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

FORM UPDATED - KATHARINE FENLEY 4/2/86

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)
- ☑ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☑ F. LIQUID
- ☑ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)
- TONS: Unknown
- CUBIC YARDS: Unknown
- NO. OF DRUMS: Unknown

03 WASTE CHARACTERISTICS (Check all that apply)
- ☑ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☑ D. PERSISTENT
- ☑ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☑ J. EXPLOSIVE
- ☑ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			FIT IV Sampling investigation indicated the presence of these contaminants.
OLW	OILY WASTE			
SOL	SOLVENTS	unknown		
PSD	PESTICIDES	unknown		
OCC	OTHER ORGANIC CHEMICALS	unknown		
IOC	INORGANIC CHEMICALS			EPA files indicate the presence of methane gas.
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	COPPER	999	OPEN DUMP / LANDFILL	11,000-28,000,000	ug/kg
MES	NICKEL	7440-02-0	"	5200-550,000	ug/kg
MES	LEAD	999	"	24,000-520,000	ug/kg
MES	ZINC	999	"	36,000-2,600,000	ug/kg
PSD	DIELDRIN	60-57-1	"	7-60	ug/kg
PSD	CHLORDANE	57-74-9	"	69-410	ug/kg
SOL	TETRACHLOROETHYLENE	999	"	2.8-17	ug/Liter
SOL	TRICHLOROETHYLENE	79-01-6	"	3.6-2200	ug/l
SOL	BIS(2-ETHYL HEXYL) PHTHALATE	999	"	340-2400	ug/l
SOL	1,2-DICHLOROETHYLENE	999	"	8.7-11,000	ug/l
SOL	TOLUENE	108-88-3	"	3.5-92	ug/l

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references e.g. state files, sampling analysis reports)

FIT IV AQUADOME SITE SAMPLING INVESTIGATION REPORT
STATE OF ALABAMA HEALTH DEPT. REPORTS
EPA REGION IV FILES

EPA FORM 2070-13(7-81)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
AL	D980842512

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [X] OBSERVED (DATE 4/85) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4 — 04 NARRATIVE DESCRIPTION

Analysis of investigation: Groundwater samples taken as part of 1985 FIT III sampling indicate contamination with several priority pollutants, most notably copper, nickel, lead, zinc, toluene.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [X] OBSERVED (DATE 4/85) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4 — 04 NARRATIVE DESCRIPTION

Analyses of surface water samples (FIT III) indicate copper, nickel, lead, zinc, tetrachloroethylene, trichloroethylene, bis(2-ethylhexyl)phthalate and 1,2-dichloroethylene present as surface water contaminants.

01 [X] C. CONTAMINATION OF AIR — 02 [X] OBSERVED (DATE See below) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4 — 04 NARRATIVE DESCRIPTION

April 19, 1983: Mabry Engineering air monitoring system detected 8% LEL outside School and 2% LEL inside school.
April 23, 1985: FIT IV Sampling team noted OVA readings above background at vents around School building.

01 [X] D. FIRE/EXPLOSIVE CONDITIONS — 02 [X] OBSERVED (DATE 1983, 1985) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4 — 04 NARRATIVE DESCRIPTION

See "CONTAM. OF AIR" above.
Also, April 23, 1985: FIT III observed HNu readings greatly above background at 10-ft.-deep auger hole.

01 [X] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: See p. 4 — 04 NARRATIVE DESCRIPTION

Brookhaven Middle School: potential contact by students & staff.
Aquadome Park: potential contact by the public.
See p. 4 "Total Population Potentially Affected"

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE 4/85) — [ ] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 40 Acres — 04 NARRATIVE DESCRIPTION

Analyses of soil/sediment samples (FIT III study) indicate contamination by copper, nickel, lead, zinc, bis(2-ethylhexyl)phthalate, dieldrin, chlordane.

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 100-140 — 04 NARRATIVE DESCRIPTION

Willow Products, a metal fabricating company located less than one mile from the site, has one production well and one consumption well drawing from the same aquifer that contaminated groundwater samples (FIT IV study) were taken from. Employees of the plant are 100-140.

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

See p. 4 "Total Population potentially affected"

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

See p. 4 "Total Population potentially affected"

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names(s) of species)
none observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☒ OBSERVED (DATE 4/85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: see below — 04 NARRATIVE DESCRIPTION
The landfill has no liner and no cap. Some trash was visible during 4/85 investigation. Leachate can be observed running into drainage ditch on site.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none observed

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
This may have occurred. There are no records available to specify contributors.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: Greater than 10,000. See comments.

IV. COMMENTS

1985 population of Decatur, AL is estimated at 48,500. For purposes of estimating population potentially affected, one quarter of the city's population has been used (>10,000).

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIT III AQUADOME SITE SAMPLING INVESTIGATION REPORT
CITY OF DECATUR FILE MATERIALS

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	unknown	
☐ G. LANDFARM		
☒ H. OPEN DUMP	unknown	
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☒ H. OTHER (Specify) open burning in trenches

05 OTHER

☒ A. BUILDINGS ON SITE

06 AREA OF SITE

40 (Acres)

07 COMMENTS

The landfill has been inactive since 1964. Buildings presently on site include Brookhaven Middle School and Aquadome recreational facilities.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The landfill has no liner, no cap, and no leachate collection system.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO

02 COMMENTS

Contaminated surface water and leachate are easily accessible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT III AQUADOME SITE SAMPLING INVESTIGATION REPORT
CITY OF DECATUR FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)

	SURFACE	WELL
COMMUNITY	A. [X]	B. [ ]
NON-COMMUNITY	C. [ ]	D. [ ]

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. [ ]	B. [ ]	C. [X]
D. [ ]	E. [ ]	F. [ ]

03 DISTANCE TO SITE

A. >3 (mi)

B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

[ ] A. ONLY SOURCE FOR DRINKING [ ] B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) [X] C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) [ ] D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 100-140

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.928 (mi) (4900 ft)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
20-25 (ft)	SOUTH X SOUTHEAST	20-25 (ft)	>1,584,000 (gpd)	[ ] YES [X] NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Willow Products company, located 4900 ft. from the site, has two wells.
Production well: ~150 ft. deep, 8" diam., steel casing. > Plant has
Consumption well: 80-100 ft. deep, 8" diam., steel casing. / 100-140 employees.

10 RECHARGE AREA		11 DISCHARGE AREA	
[ ] YES [ ] NO	COMMENTS: Recharge is primarily by precipitation.	[ ] YES [ ] NO	COMMENTS: unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

[X] A. RESERVOIR, RECREATION DRINKING WATER SOURCE [ ] B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES [ ] C. COMMERCIAL, INDUSTRIAL [ ] D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED/POTENTIALLY	DISTANCE TO SITE
Dry Branch Creek	potentially	< 1/4 (mi)
Tennessee River		> 3 (mi)
		(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN see below

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION see below (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE see below

04 DISTANCE TO NEAREST OFF-SITE BUILDING see below (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site (e.g., rural, village, densely populated urban area))

The site is located within the city of Decatur, in a densely populated residential area.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} – 10^{-8} cm/sec ☑ B. 10^{-4} – 10^{-6} cm/sec ☐ C. 10^{-4} – 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ☑ C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
20-30 (ft)	unknown (ft)	unknown	→ Tends slightly to basic due to limestone.

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	3.3 (in)	6.5 %	Toward drainage ditch in center	0-5 %

09 FLOOD POTENTIAL
SITE IS IN N/A YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE
A _____ (mi)
OTHER
B 4 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
_____ (mi)
ENDANGERED SPECIES: none in vicinity

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A < 1 (mi)	B < 1/10 (mi)	C _____ (mi)	D none in vicinity (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located in central Decatur, bordered by residences. The probable drainage path from the site follows Dry Branch Creek, which enters the Tennessee River at approximately river mile 303. This is downstream of the city of Decatur's water supply intake, which is located at river mile 306.

VII SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis, reports)

FIT IV AQUADOME SITE SAMPLING INVESTIGATION REPORT
CLIMATIC ATLAS OF THE UNITED STATES, U.S. DEPT. OF COMMERCE
TENNESSEE RIVER NAVIGATIONAL CHART

EPA FORM 2070-13(7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	4		
SURFACE WATER	7	Results currently available - FIT IV AQUADOME SITE SAMPLING INUESTIGATION REPORT.	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL / SEDIMENT	6		
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH, Temp.	Water Samples.
Conductivity	Water Samples.
Ambient air	HNu, OVA.

IV. PHOTOGRAPHS AND MAPS

01 TYPE [X] GROUND [X] AERIAL

02 IN CUSTODY OF FIT IV
Name of organization or individual

03 MAPS [-] YES [ ] NO

04 LOCATION OF MAPS FIT IV FILES

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

FIT IV AQUADOME SITE SAMPLING INVESTIGATION REPORT
FIT IV FILES

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	04 SIC CODE
CITY OF DECATUR		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
P.O. Box 488		
05 CITY	06 STATE	07 ZIP CODE
DECATUR	AL	35602

PARENT COMPANY (if applicable)

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	04 SIC CODE
SAME AS CURRENT		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (if applicable; list most recent first)

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sampling analysis reports.)

CITY & STATE FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
CITY OF DECATUR	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
P.O. Box 488	

05 CITY	06 STATE	07 ZIP CODE
DECATUR	AL	35602

08 YEARS OF OPERATION	09 NAME OF OWNER
	SAME AS OPERATOR

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
SAME AS CURRENT	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	D980842512

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
UNKNOWN	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
UNKNOWN			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
UNKNOWN			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

II. PAST RESPONSE ACTIVITIES: NONE

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

EPA FORM 2070-13(7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: D980842512

II PAST RESPONSE ACTIVITIES (Continued) NONE

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
AL	D980842512

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION - YES X NO

02 DESCRIPTION OF FEDERAL STATE LOCAL REGULATORY ENFORCEMENT ACTION

None.

III. SOURCES OF INFORMATION Cite specific references e.g. state files sample analysis reports

EPA FORM 2070-13 (7-81)

NUS CORPORATION
NORTH LAKE SQUARE OFFICE PARK
1726 MONTREAL CIRCLE
SUITE 20
TUCKER, GEORGIA 30084
(404) 938-7710

C-586-3-6-84

March 26, 1986

Ms. Camilla Warren
Emergency and Remedial Response Branch
Air and Waste Management Division
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Re: Geological Reference for Aquadome Site
Decatur, Alabama
Morgan County
TDD No. F4-8504-02

Dear Ms. Warren:

As per your request, enclosed please find a copy of the geological reference used in the Aquadome Site Sampling Investigation Draft Report. Should you have any further questions concerning Aquadome, please contact me.

Very truly yours,

Katharine S. Fenley

KSF/ms

Enclosure

GEOLOGY AND GROUND-WATER RESOURCES OF MORGAN COUNTY, ALABAMA

By Chester L. Dodson and Wiley F. Harris, Jr.

GEOLOGICAL SURVEY OF ALABAMA BULLETIN 76

GEOLOGICAL SURVEY OF ALABAMA

Philip E. LaMoreaux
State Geologist

DIVISION OF WATER RESOURCES

Doyle B. Knowles
Chief Hydraulic Engineer

BULLETIN 76

GEOLOGY AND GROUND-WATER RESOURCES OF MORGAN COUNTY, ALABAMA

By Chester L. Dodson and Wiley F. Harris, Jr.

with a section on the

CHEMICAL QUALITY OF THE WATER

By James C. Warman

Prepared by the United States Geological Survey
in cooperation with the
Morgan County Board of Revenue and Control,
the City of Decatur, and the
Geological Survey of Alabama

The nomenclature in this report is that of the Geological Survey of Alabama and does not necessarily follow that in use by the U.S. Geological Survey

UNIVERSITY, ALABAMA

1965

STATE OF ALABAMA

Honorable George C. Wallace, Governor

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University, Alabama
June 30, 1965

Honorable George C. Wallace
Governor of Alabama
Montgomery, Alabama

Dear Governor Wallace:

I have the honor to transmit the manuscript of a report entitled "Geology and Ground-Water Resources of Morgan County, Alabama," by Chester L. Dodson and Wiley F. Harris, Jr., with a section on the "Chemical Quality of the Water" by James C. Warman, with the request that it be printed as Bulletin 76 of the Geological Survey of Alabama.

The report points out that the largest quantities of ground water in the county are obtained from solution cavities in the Fort Payne Chert. Wells that will yield 100 gallons per minute or more from the Fort Payne Chert are common in Morgan County; the largest yield is estimated at 1,100 gallons per minute. Water in adequate quantity and of satisfactory quality for domestic use is available in most parts of the county.

Respectfully,

Philip E. LaMoreaux

Philip E. LaMoreaux
State Geologist

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GEOLOGY AND GROUND-WATER RESOURCES OF MORGAN COUNTY, ALABAMA

By Chester L. Dodson and Wiley F. Harris, Jr.

ABSTRACT

Morgan County includes an area of 587 square miles in north Alabama. Ground water occurs chiefly in solution cavities and openings along fractures and joint systems in limestone of Mississippian age. The principal aquifer is composed of the Tuscumbia Limestone and the Fort Payne Chert. Aquifers of less importance are in the Ste. Genevieve Limestone, Gasper Formation, Hartselle Sandstone, Bangor Limestone, and Pennington Formation.

Wells that will yield 100 gpm (gallons per minute) or more from the Fort Payne Chert or Tuscumbia Limestone are common in the Tennessee Valley physiographic district. Similar yields could be obtained from wells drilled in the Moulton Valley physiographic district. The largest yield from a well in Morgan County is estimated to be about 1,100 gpm. This well obtains water from the Fort Payne Chert. Few wells fully penetrate the Tuscumbia-Fort Payne aquifer so that at present only a small part of the aquifer is developed. Wells tapping the Hartselle Sandstone or the Pottsville Formation generally yield less than 10 gpm.

The chemical quality of ground water is generally suitable for most uses. However, water from the Fort Payne Chert to the contact between the Ste. Genevieve Limestone and the Gasper Formation is generally very hard. Locally the water is high in hydrogen sulfide or contains excessive iron.

INTRODUCTION

Morgan County includes an area of 587 square miles in north Alabama (fig. 1). Almost all the county lies within the drainage basin of the Tennessee River, which is the north boundary of the county. Flint Creek and Cotaco Creek are the main streams within the county. The topography is characterized by broad open valleys, plateaus bordered by escarpments, and a few isolated hills. The total relief is about 780 feet. The lowest area is along the shoreline of Wheeler Reservoir at an altitude of about 550 feet, and the highest point is in the NW$\frac{1}{4}$ sec. 27, T. 6 S., R. 1 W., at an altitude of about 1,330 feet.

According to the 1960 census, the population of the county is 60,454. The population of Decatur, the largest city, is 29,217, and that of Hartselle, the second largest city, is 5,000. The county is served by land, water, and air transportation, including two main-line railroads, three Federal and four State highways, several river barge lines, and one airline.

The climate of the county is mild. The average annual temperature is about 61° F; the average winter temperature is about 40° F, and the average summer temperature is about 80° F. The average annual precipitation is about 50 inches and is mostly in the form of rain, though snow is common in winter. Winter is the wettest season of the year, and early fall is the driest; January is usually the wettest month and October the driest. The normal monthly precipitation at Decatur is shown in figure 2. The growing season is about 200 days, from April to about the end of September.

The investigation of Morgan County was made by the U.S. Geological Survey in cooperation with the Morgan County Board of Revenue and Control, Mr. Guy D. Roberts, Chairman, the city of Decatur, Mr. Murray Dodd, Mayor, and the Geological Survey of Alabama, Philip E. LaMoreaux, State Geologist.

PURPOSE, SCOPE, AND METHODS OF INVESTIGATION

The investigation was made to determine the occurrence, availability, and quality of ground water in Morgan County to aid in the development of this resource for agricultural, municipal, industrial, and domestic use.

The study consisted of five main phases: collecting data from wells and springs, geologic mapping, determining the chemical quality of the ground water, drilling and pumping test wells, and writing a comprehensive report on the geology and ground-water resources of the county. As a part of the evaluation of the ground-water resources, 2,548 wells and springs were inventoried; data were collected on type

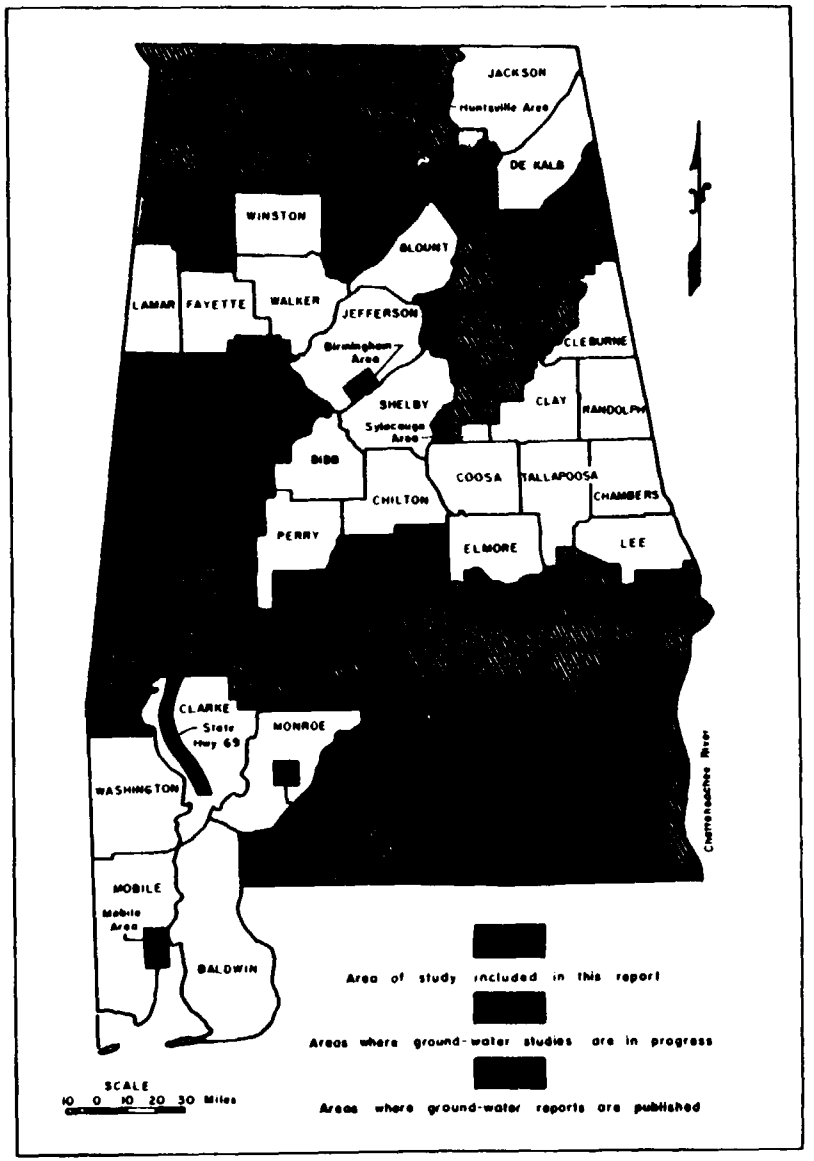


Figure 1.—Area studied and areas of other ground-water studies in Alabama, 1963

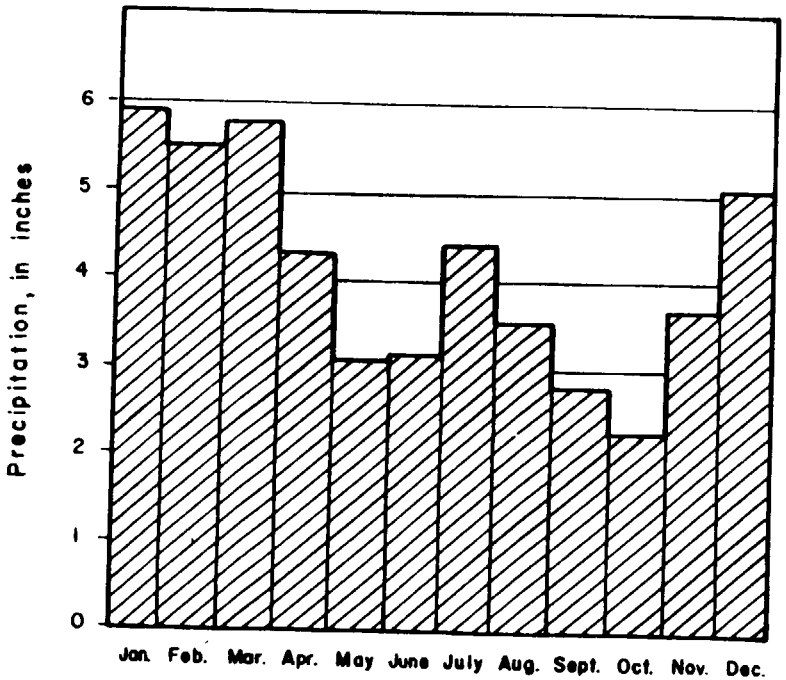


Figure 2.—Normal monthly precipitation at Decatur.

of well, owner, driller, depth, diameter, water level, water-bearing formation, and method of lift, and these data tabulated in the interim report on the geology and ground-water resources of Morgan County (Dodson and Harris, 1961, table 2). Water levels in 40 wells were recorded biweekly for periods ranging from 6 months to $3\frac{1}{2}$ years, and water-level recorders were maintained on 12 wells for periods ranging from 1 month to 3 years. Water-level fluctuations in these wells were correlated with precipitation, changes in water level in Wheeler Reservoir, earthquakes, pumpage, and barometric changes.

As a part of the determination of the chemical character of the ground water in the county, more than 2,000 samples were collected during the well-inventory phase of the investigation and were analyzed for hardness and chloride content in the field laboratory (Dodson and Harris, 1961, table 2). A more complete analysis was made on 47 samples in the laboratory of the Quality of Water Branch of the Geological Survey at Ocala, Fla. The constituents determined included iron

in solution, calcium, magnesium, sodium, bicarbonate, carbonate, sulfate, chloride, fluoride, nitrate, hardness, pH, and specific conductance; 13 samples were analyzed for fluoride, and 4 samples for total iron.

Twelve test wells were drilled in areas where additional geologic and hydrologic data were needed. Locations of these wells are shown in figure 3. Pumping tests were made on 10 of the wells to determine the hydraulic characteristics of the water-bearing formations and the quantity of water available. The results of bailing tests made on two wells indicated yields of less than 30 gpm during periods of low water levels.

The geology of the county was mapped to aid in the determination of its relation to the occurrence and movement of ground water. It was drawn on $7\frac{1}{2}$-minute topographic quadrangle maps and transferred to the base map at the publication scale of about 1 inch equals 1 mile (pl. 1). Because much of the county is covered by unconsolidated deposits, the bedrock contacts drawn on the map are generalized for many areas.

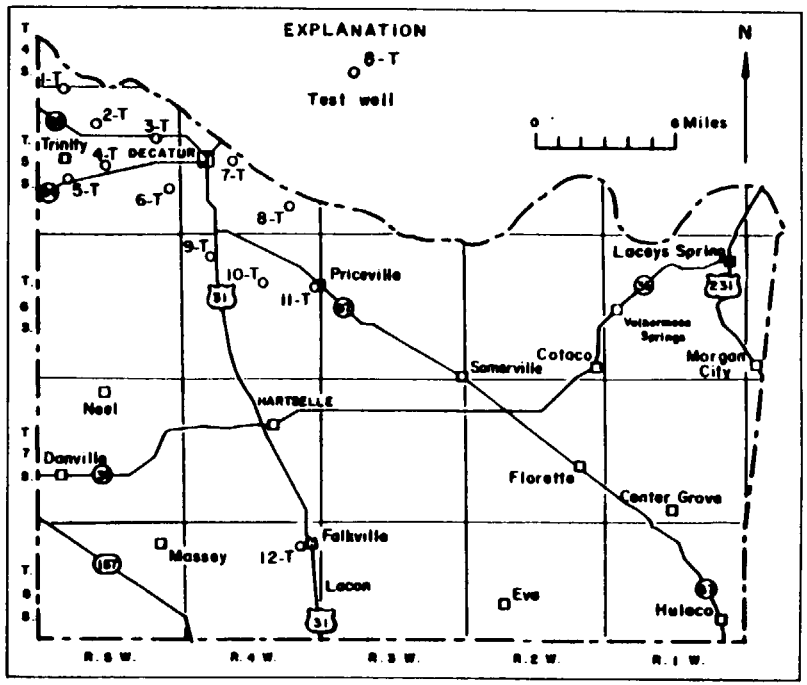


Figure 3.—Location of test wells in Morgan County.

This report is divided into three main parts: the geologic formations and their water-bearing properties, the ground-water resources of the county, and the chemical quality of the water.

PREVIOUS INVESTIGATIONS

Several workers have included Morgan County as part of regional studies. Among them were Tuomey (1858), Smith (1890, 1894, 1907), McCalley (1896), Butts (1926), Semmes (1929), Johnston (1933), and Welch (1958). The report by Johnston (1933, pt. 1, p. 290-296; pt. 2, tables 35 and 36) outlined the geology, physiography, and occurrence of ground water in each of the formations and included water analyses from four wells and two springs.

ACKNOWLEDGMENTS

The information on wells and springs contributed by citizens of Morgan County, and the extensive help of city and county officials and waterworks superintendents are acknowledged gratefully. Mr. George H. Godwin, manager of the Decatur Water and Sewerage Department, especially aided the investigation. Messrs. J. N. Crowe of the H. N. Crowe Drilling Co. and C. H. Elliott of the Elliott Drilling Co. have been especially helpful by furnishing drillers' logs and rock samples from more than 100 wells in addition to information on ground water in the county. The technical and material aid given to the investigation by Messrs. Charles and Hawley Dodson of the drilling firm Hawley Dodson & Son also is acknowledged gratefully.

PHYSIOGRAPHY

Morgan County lies in two physiographic provinces, the Interior Low Plateaus province and the Cumberland Plateau section of the Appalachian Plateaus province (U. S. Geol. Survey, 1946). Johnston (1933, p. 9-10) subdivided the Interior Low Plateaus province into three physiographic districts in Morgan County--the Moulton Valley, the Little Mountain, and the Tennessee Valley districts. The nomenclature and definitions of Johnston are used in this report. Figure 4 shows the physiographic divisions of Morgan County.

PRINCIPLES OF GROUND-WATER OCCURRENCE

Rocks in the outer crust of the earth generally contain open spaces called voids or interstices, which range in size from the very small

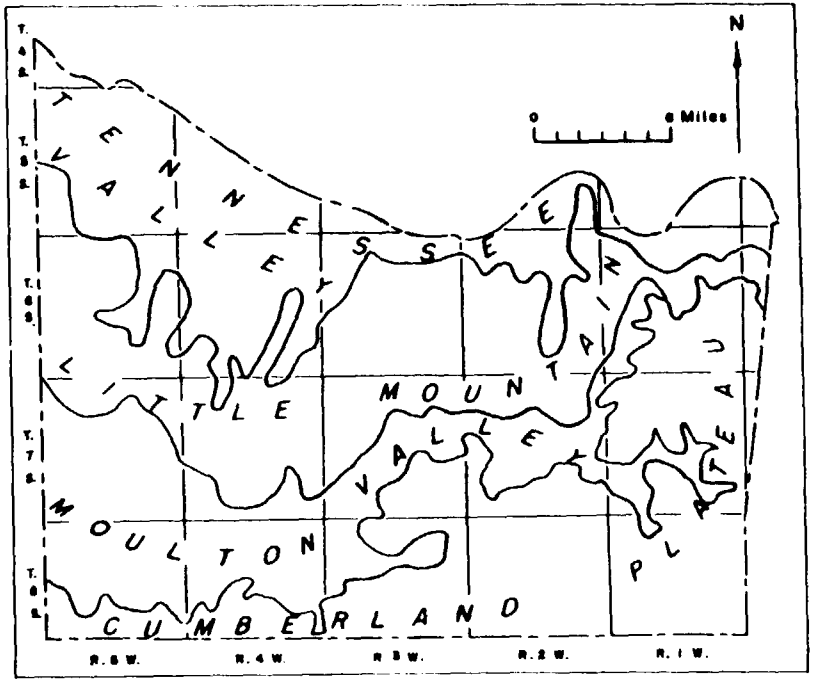


Figure 4. - Physiographic map of Morgan County.

spaces between particles of clay to spaces that may be several feet across, such as solution cavities or caves in limestone. The ratio of the aggregate volume of the open spaces in a rock to its total volume is the porosity of the rock (Meinzer, 1923b, p. 19). If the open spaces are interconnected, water may be transmitted through the rock. The permeability of a rock is its capacity for transmitting water under pressure and is measured by the rate at which it will transmit water through a given cross section under a given difference of pressure per unit of distance (Meinzer, 1923a, p. 28). Rocks that do not transmit water readily are relatively impermeable.

"The permeable rocks that lie below a certain level are generally saturated with water under hydrostatic pressure. Their interstices are filled with water. These saturated rocks are said to be in the 'zone of saturation.' The water that enters from the surface into the rocks of the earth is drawn down by gravity to the zone of saturation except as it is held by the molecular attraction of the walls of the interstices

through which it passes in its descent. The permeable rocks that lie above the zone of saturation may be said to be in the 'zone of aeration' * * * *" (Meinzer, 1923a, p. 29).

The water table is the upper surface of the zone of saturation in permeable rock, and where the upper surface is formed by impermeable rock, the water table is absent (Meinzer, 1923a, p. 30).

If the water in the zone of saturation is confined under sufficient pressure by impermeable rock so that it will rise in a well above the base of the upper confining rock layer, it is artesian water. The well will be a flowing artesian well if the water rises above the land surface, and a nonflowing artesian well if the water level does not rise above the land surface. The imaginary surface that everywhere coincides with the water level in an artesian aquifer is called the piezometric surface (Meinzer, 1923b, p. 38). Most of the artesian wells in Morgan County are nonflowing; however, a few flowing wells have been drilled.

An aquifer is a rock formation, group of formations, or part of a formation that is water bearing (Meinzer, 1923b, p. 30). The term "water bearing" does not refer to just any formation that may contain water, but to the formation or rock that will yield water in usable quantities to wells and springs. Shale beds in Morgan County contain water but yield no water to wells and are not, therefore, aquifers. Limestone formations that contain water-filled cavities generally yield water to wells and springs and are, therefore, aquifers. A group of limestone formations that are hydraulically connected may be called an aquifer.

Ground water is that part of the subsurface water that is in the zone of saturation (Meinzer, 1923a, p. 38), and in Morgan County, ground water is derived from precipitation that is almost entirely rain; less than 5 percent of the precipitation is snow and ice. Part of the rainfall runs off into streams, and part of it evaporates. The rest seeps into the soil where it may be partly absorbed or may be used by vegetation. About one-fourth of the total precipitation in the county percolates downward through the soil and becomes ground water (Curtis, 1953, p. 36).

In Morgan County, ground water is obtained chiefly from limestone and sandstone, but also from dolomite, chert, and conglomerate. The surficial unconsolidated deposits of sand, gravel, and chert rubble also are water bearing, and some chert-rubble deposits contain large quantities of water. Sandstone contains ground water in the interstices between sand grains, in openings along bedding planes, and in fractures. If water can move freely in these open spaces, the sandstone is permeable and large quantities of water may be obtained from it, but if the interstices between sand grains are filled with cementing material and other open spaces are few or small, the movement of water through the sandstone may be restricted or stopped. All or part of a sandstone formation may be impermeable for these reasons. The permeability of the sandstones in Morgan County is generally low, and wells tapping them yield little water.

The most productive aquifers in the county are in limestone in which nearly all the water occurs in solution cavities. The limestone itself is impermeable; however, openings along bedding planes and fractures permit the ground water to move through the formation. Originally the spaces probably were less than an inch across, but the solvent and abrasive action of moving ground water has eroded the surrounding limestone. Although most of the openings still are small, some of the solution cavities are now several feet across. Probably little or no open space occurred along the bedding planes as the beds were deposited, and, unless modified by slippage during subsequent folding or faulting, little ground water has moved along them; therefore, only a few solution cavities have formed. In Morgan County, the original spaces between beds have been a secondary factor in the formation of aquifers; openings along fractures are more important in the formation of extensive solution cavities.

A discussion of the processes involved in the formation of cavities in limestone is beyond the scope of this report. Meinzer (1923a, p. 131-137), Swinnerton (Meinzer, 1942, p. 656-677), and Hem (1959, p. 70-78, 211-214) discuss the processes in some detail.

A hypothetical cavity system that typifies the occurrence and movement of ground water in the limestone aquifers of Morgan County is shown in figure 5. Although the diagram is idealized, some of the features, such as the fault and the cavity shapes, were drawn from actual outcrops in quarries, road cuts, and caves in the county. The path of only one hypothetical particle of water is shown, but all cavities and fractures below the water table would be in the zone of saturation and would be filled with water. Water would probably be moving in all the cavities and in most of the joints. Joints above the water table would transmit water to the cavity system. If the water were transmitted to the zone of saturation at a rate greater than the discharge from the cavity system, the water table would rise above the position shown, and if it were transmitted at a rate less than the discharge, the water table would be lowered, perhaps to a position where the upper cavity would be only partly filled.

GEOLOGIC FORMATIONS

In Morgan County, seven rock formations of Mississippian age and one of Pennsylvanian age contain the principal aquifers. Summary descriptions of the formations and their water-bearing properties are shown in table 1. The distribution of the outcrop areas of these bedrock

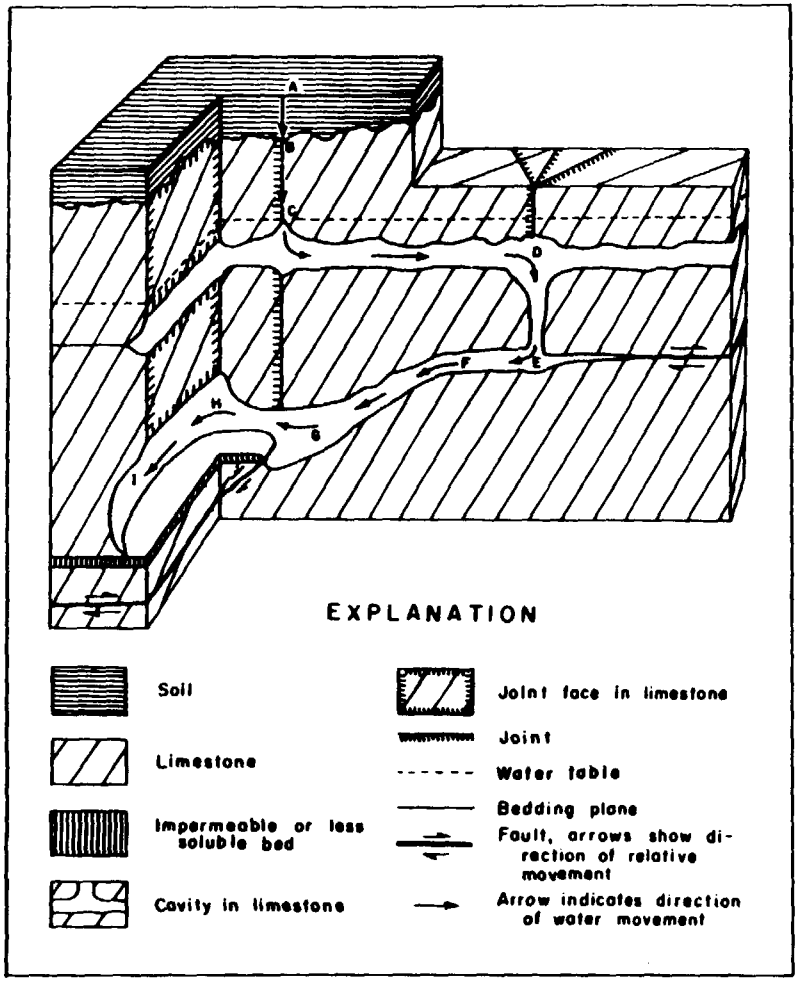


Figure 5.–Occurrence and movement of ground water in a limestone aquifer.

Table 1.–*Generalized section of the Chattanooga Shale and younger geologic formations and their water-bearing properties*

Age	Formation	Thickness (feet)	Rock description	Water-bearing properties
Pennsylvanian	Undifferentiated	0–1,000	Clay, silt, sand, and gravel; locally includes limestone	Yields no water to wells
				Yields some water to dug wells
	Undifferentiated	0–1,000	Broken rock forms multiperched hydraulic circulations	May yield water to wells in a few small areas
			Broken rock in permeable outcrops yields water	Yields more than 20 gpm (gallons per minute)
			Nodules and rubble of chert weathered from limestone	Some wells developed in thin material yield more than 20 gpm
	Unconformity			
Pennsylvanian	Pottsville Formation	Less than 100	Sandstone, gray, very thick bedded, weathers to flaggy beds; contains small lenses of conglomerate and coal	Water occurs along bedding planes and in fractures; typical wells yield less than 10 gpm; water contains excessive iron
	Unconformity			
	Pennington Formation	50–150	Limestone, gray, very fine to coarse grained, thin to very thick bedded, partly nodular, partly argillaceous; interbedded with shale, red and green shale, light gray siltstone	Water occurs in the limestone in crevices and fractures; supplies many small springs; some springs yield more than 100 gpm; few wells yield as much as 10 gpm. The shale yields no water
	Bangor Limestone	400	Limestone, gray, finely crystalline, very fine to coarse grained, thin to very thick bedded, partly nodular, contains shale and cherty and dolomitic limestone beds	Water occurs in crevices and fractures; most water from these springs in greater than 100 gpm; wells yield as much as 100 gpm
	Hartselle Sandstone	0–120	Sandstone, gray, thin bedded to massive, calcareous, weathers to flaggy fragments; some parts of formation are soft and friable; contains some shale beds	Water occurs in crevices and along bedding planes; wells yield less than 10 gpm
	Unconformity			
Mississippian	Bangor Formation	50–150	Three distinct units: top and bottom limestone units gray, thick bedded, medium to coarse grained, locally partly nodular and cherty, each about 30 ft thick; middle unit is gray shale about 40 ft thick	Water occurs in crevices and fractures in the limestone; the shale yields no water; many springs issue from the top limestone unit; most of these springs are small but 100 gpm or more; some only a few gpm; the bottom limestone unit yields little water
	Ste. Genevieve Limestone	90	Limestone, light gray, cherty, thick bedded, nodular	Water occurs in crevices and fractures; wells at or near contact with overlying and underlying formations yields little water except in the area of outcrop
	Unconformity			
	Fort Payne Chert	180	Limestone, light silver gray to light gray, fine to coarse grained, thick bedded, contains nodules and interbeds of chert	Water occurs in crevices and fractures; wells that are capable of yielding 100 gpm are common
		210	Limestone, dolomitic limestone, dolomite and chert, white, gray and greenish gray, contains some shale; does not crop out in Morgan County	Water occurs in crevices and fractures; wells are capable of yielding more than 100 gpm; estimated maximum yield of one test well is 1,100 gpm
	Unconformity			
Devonian	Chattanooga Shale	0–35	Shale, black to greenish gray, appears black when wet; contains thin sandstone beds at top and bottom; does not crop out in Morgan County	Yields no water. Many wells penetrate the shale in the county

formations is shown on plate 1. The Fort Payne Chert, the oldest Mississippian formation, does not crop out in the county. The unconsolidated deposits, which cover the bedrock over more than three-fourths of the area of the county, are treated in this report as a single rock formation, designated post-Pennsylvanian undifferentiated. Locally, where these unconsolidated deposits are composed of residual sand or chert rubble, they may yield adequate supplies of water for domestic use. Only formations above the Chattanooga Shale, of Devonian age, can be expected to yield water suitable for ordinary uses. Although the Chattanooga yields little or no water to wells penetrating it, it forms an impermeable barrier to the downward movement of the water and is therefore important to the occurrence of ground water in the county.

The nomenclature and definitions of geologic formations used in this report are those used by Butts (1926). Welch (1958) placed the rock units occurring between the Tuscumbia Limestone and the Hartselle Sandstone into a new formation, the Pride Mountain Formation, but he was unable to recognize any of the several members of the Pride Mountain in Morgan County. Retaining the names of Gasper Formation and Ste. Genevieve Limestone, as used by Butts (1926), for rocks between the Hartselle and Tuscumbia is more appropriate for purposes of this study than using the name Pride Mountain Formation and is the acceptable nomenclature used by the Geological Survey of Alabama.

Terminology used to describe bedding in this report is that proposed by McKee and Weir (1953). The "Glossary of Geology and Related Sciences" of the American Geological Institute was used as the reference for definition of other geologic terms. The "Rock Color Chart" of the National Research Council was used as a reference in describing colors of rocks.

The aquifers are chiefly limestone. The bedrock above the Chattanooga Shale is about 60 percent limestone, 15 percent sandstone, 10 percent chert, 10 percent shale, and 5 percent dolomite. Two formations, the Pottsville Formation and the Hartselle Sandstone, are mostly sandstone, the Gasper Formation is about one-third shale, but all other formations are mostly limestone. Solution cavities in the limestone contain most of the ground water that can be developed in the county. The permeability of the sandstone is generally low, solution cavities do not readily form in the dolomite, and the chert and shale are impermeable; compared to the limestones, little water can be obtained from these rocks.

Plate 2 shows the geologic structure of Morgan County. The regional dip is south about 30 feet per mile, but the normal dip is disrupted locally by broad folds. The structural features of the county are discussed in the sections on the geologic formations and on the structural control of ground water.

CHATTANOOGA SHALE

DESCRIPTION.—The Chattanooga Shale of Devonian age is not an aquifer in Morgan County. However, the formation, being impermeable, confines the circulation of ground water to the formations above. So far as is known, water below the Chattanooga is highly mineralized and unsuitable for domestic, stock, and most other uses; therefore, the formation lies at the greatest depth to which it is practical to drill water wells in the county. The formation is the marker bed that was used to prepare the structure map (pl. 2).

The Chattanooga Shale is classified as a black shale formation, but dark-brownish-gray fissile shale and two thin beds of yellowish- or greenish-gray poorly sorted fine-grained calcite-cemented sandstone generally compose the formation in Morgan County, and pyrite is characteristically abundant. The beds of sandstone, each about half a foot thick, generally are at the top and bottom of the formation; however, in test wells 5-T and 6-T more than half the Chattanooga is composed of sandstone (table 5). The thickness of the Chattanooga penetrated in test wells ranges from 4 to 14 feet. The contact between the Chattanooga and the Fort Payne Chert is an unconformity.

GROUND WATER.—The Chattanooga is not an aquifer; however, water in contact with the Chattanooga generally is mineralized. Hydrogen sulfide escapes into the water in wells tapping the formation and causes the water to become sulfurous. If the amount of mineralized or sulfurous water is undesirable, the Chattanooga is sealed off before completion of the well.

FORT PAYNE CHERT

DESCRIPTION.—The Fort Payne Chert, the oldest formation of Mississippian age that underlies Morgan County, does not crop out in the county and is everywhere at a depth greater than 40 feet below the land surface. All rocks between the Chattanooga Shale and the Tuscumbia Limestone are included in the Fort Payne Chert for the purpose of this report. The average thickness of the Fort Payne in test wells drilled in Morgan County is about 210 feet. The formation is not chert, as its name implies, but limestone, dolomite, chert, and shale. Its average composition as determined from drill cuttings in 10 test wells is about 50 percent limestone and dolomitic limestone, 25 percent dolomite, 20 percent chert, and 5 percent shale. Most of the limestone and dolomite is very fine grained. Very fine grains of silica occur in much of these rocks and are abundant in places. The limestone, dolomite, and silica were probably deposited by chemical precipitation.

The lithology of the Fort Payne is so varied that no simple description is appropriate. The complexity of the lithology and stratigraphy can be seen in the logs of the test wells (table 5). The Fort Payne comprises three main units. The lower unit is generally composed of greenish-gray very fine grained, partly silicified, partly calcareous dolomite and bluish-gray and greenish-gray chert. Downward from the top of the unit, the grain size of the dolomite generally decreases and the dolomite becomes increasingly argillaceous. Locally, the lower unit contains gray, greenish-gray, and olive-gray very fine grained dolomitic limestone. Nearly half the lower unit in test well 7-T is composed of limestone, but limestone is a minor constituent in the other test wells. A light-greenish-gray shale about half a foot thick that occurs at the base of the Fort Payne has been included in the lower unit.

Drill cuttings indicate that the lower unit is laminated to very thin bedded and contains a few shale laminae and thin beds of greenish-gray and gray shale. The shale content of the unit, as seen in cuttings from test wells, generally increases northwestward. The shale is a minor constituent in test well 9-T, less than 2 percent, but the bottom half of the unit in well 4-T is about 5 percent dark-gray shale, and the unit in well 1-T is about 10 percent dark-greenish-gray shale.

Crinoid stem plates up to half an inch in diameter are locally abundant in the lower unit, and stem plates, other crinoidal debris, and bluish-gray chert may compose an extraordinary limestone unit. In well 7-T, this limestone unit is 5 feet thick and lies about a foot above the base of the Fort Payne, but a similar bed in well 10-T is 17 feet thick, contains little chert, and is 55 feet above the base of the formation. In well 10-T, the abundance of crinoid stem plates gradually decreases both upward and downward from the crinoidal limestone unit. The crinoid stem plates are calcite, but, of those plates that are surrounded by a matrix of chert or dolomite, about 1 mm of the outer rim is replaced by the matrix material.

The middle unit of the Fort Payne is chiefly light-olive-gray very fine grained, partly silicified dolomitic limestone, light-olive-gray to light-greenish-gray very fine grained, partly silicified dolomite, and light-bluish-gray and very light olive-gray to very light greenish-gray chert. The olive-gray and greenish-gray chert is the product of complete silicification of limestone or dolomite. The very fine grained structure of the limestone and dolomite was not altered in silicification. A study of cuttings from test wells in the county indicates that the average composition of the middle unit is about one-third chert.

The upper unit is composed mainly of very light olive-gray fine- to coarse-grained clastic limestone, light-olive-gray fine-grained, partly dolomitic and partly siliceous limestone, light-olive-gray very fine grained calcareous dolomite, and bluish-gray chert. The lithology of the clastic limestone is the same as that of the overlying Tuscumbia

Limestone. The upper unit comprises tongues of Tuscumbia and tongues of Fort Payne, and the very fine grained chemically precipitated limestone or dolomite differentiates this unit from the Tuscumbia. The Tuscumbia is a facies of clastic deposition, and the Fort Payne is a facies of chemical deposition. Lithologies of the two facies do not appear to be gradational. The contact between the Tuscumbia Limestone and the Fort Payne Chert has been drawn at the top of the uppermost tongue of olive-gray very fine grained dolomitic limestone, or dolomite, and bluish-gray chert. The upper unit is identified in all test wells except 9-T, where the chert, ordinarily the most conspicuous constituent, is absent; however, the curve that is typical at the Fort Payne-Tuscumbia contact appeared on the electric log of 9-T. The curve was approximately the same at the contact as the curve shown on plate 4. If the contact were drawn at the bottom of the lowermost light-olive-gray fine to very coarse grained oolitic clastic limestone, which is the lowermost tongue of the Tuscumbia, the contact in some wells would be as much as 100 feet lower than where it is drawn. The contact was chosen at the top of the highest Fort Payne tongue, chiefly because this choice includes in the upper unit all the Fort Payne lithology of uniform thickness.

The three units of the Fort Payne are gradational. The colors gradually become lighter upward and grade from green to olive (yellowish). From about the center of the lower unit, the content of bluish-gray chert generally increases downward to the bottom of the Fort Payne and upward into the middle unit. The amount of clastic limestone generally increases upward from the base of the upper unit, as the amount of chemically deposited limestone and dolomite decreases. From near the bottom of the formation upward the dolomite content decreases, as does the content of very fine grains of silica. The thickness of the bedding probably increases upward also; at least part of the bedding in the lower unit is laminated, and some of the clastic limestone in the top unit is probably thick bedded.

An odd characteristic of part of the chert in the Fort Payne can be used to distinguish the formation from the Tuscumbia Limestone. Cuttings of the chert fresh from the well are blue. The colors range from very light blue to light blue, but they rapidly change to grayish blue, then to bluish gray or white. The change from blue to grayish blue occurs within 5 minutes after the sample is bailed from the well, and the change to bluish gray generally occurs by the time the washed sample is dry. The change is probably caused by oxidation, and the rapidity of the change limits the usefulness of the characteristic.

The greenish fine-grained rock in the lower unit, when fresh from the well, is grayish green, but the color becomes lighter and more gray with time, a color change similar to that in the bluish-gray chert. The shale cuttings probably become brown with time. McGlamery (1955,

p. 348-363) recorded much more brown than was observed in the samples collected during this study. The green is probably due to reduced iron, which oxidizes to brown on exposure to the air.

GROUND WATER.—Only a few wells penetrate the Fort Payne Chert in Morgan County, and data available for use in preparing this report are chiefly from 11 test wells drilled as part of the study (table 2). Fractured zones and solution cavities are the main sources of water in the formation. Most of the water-bearing open spaces are so small that they are hardly noticed in drilling, the openings being detected only by a change in the consistency of the mud in the bottom of the well. Individual solution cavities more than 2 inches thick are not common; these small cavities may occur in groups, in what could be termed "cavity zones." The zones of both fractures and cavities are ordinarily $\frac{1}{2}$ to 1 foot thick; however, a cavity zone 13 feet thick was penetrated in well 5-T, and 7 large open cavities were penetrated in well 8-T, a total of 24 feet of cavity in 85 feet. Almost all the rock cut in this well was broken or brecciated. An open cavity, 4 feet thick, was penetrated in well 2-T and a filled cavity, 1 foot thick, was cut in well 7-T; none of the other test wells contained a large cavity. Many of the cavities are filled or partly filled with mud, silt, sand, gravel, or breccia. The cavity in well 7-T is filled with small, well-rounded pebbles of dolomite cemented by elongated crystals of calcite that are about 1 mm in diameter.

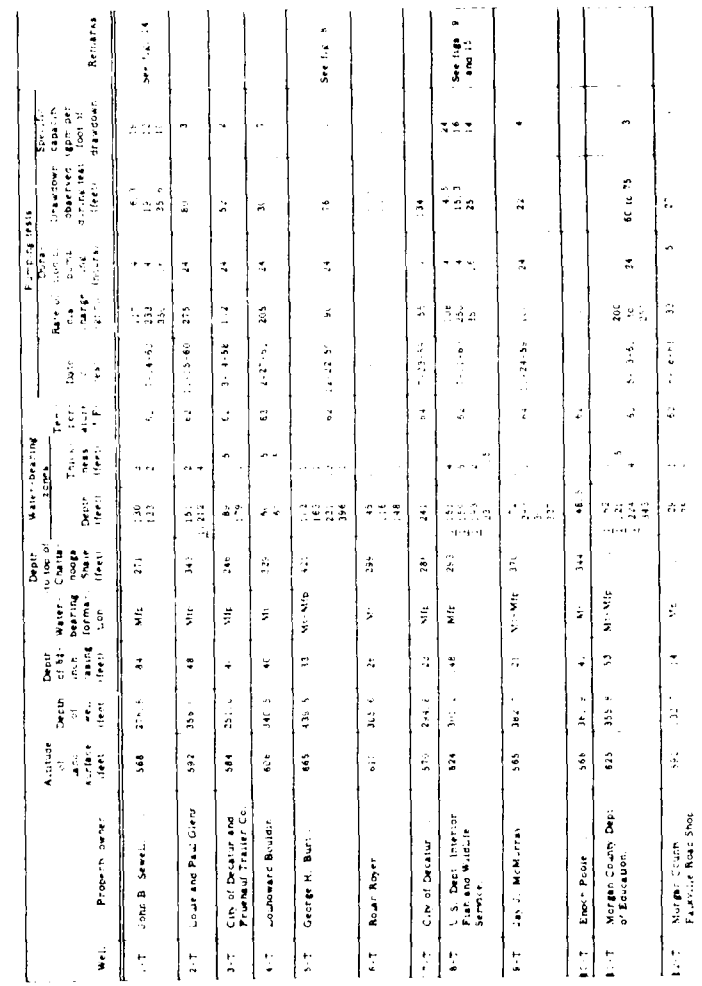
One explanation of the large number and size of cavities in the Fort Payne in test well 8-T is that it is in the possible collapse structure discussed in the section on unconsolidated deposits. Another explanation is that the well penetrates a fault zone, although no extensive high-angle fault has been recognized in the county. Chert breccia recemented by pyrite was obtained from the well between depths of 235 and 290 feet, where no cavities occur and where no solution of the rock is apparent.

The deep fractured zones in the Fort Payne are probably thrust fault zones, and the cavity in well 7-T probably formed along a fault. Brecciated rock was obtained from several of the test wells, from zones that probably are horizontal. If the breccia were from joints, the zones would appear thicker than they ordinarily do, and the drill would be deflected at the bottom.

The Fort Payne Chert and the overlying Tuscumbia Limestone are effectively a single aquifer, as no confining bed separates the two formations. Recharge generally moves downward to the Fort Payne from the Tuscumbia. The water-bearing properties of the two formations differ, as do the properties of the three units in the Fort Payne, but regionally they are considered as one aquifer.

Table 2.—*Records of test wells in Morgan County, Ala.*

Water-bearing formations: Mfp, Fort Payne Chert; Mt, Tuscumbia Limestone; Mb, Bangor Limestone



In the test wells, generally, the greatest yield was from the upper unit of the Fort Payne Chert; the yield from the middle unit was intermediate, but only small quantities of water were obtained from the lower unit.

Tongues of the fine-grained dolomitic limestone and calcareous dolomite and chert may effectively control the occurrence of ground water in the upper unit of the Fort Payne. Because these tongues are less soluble than the coarser grained clastic limestone, they could act as confining beds not only in creating artesian conditions but also in creating barriers to the lateral movement of ground water into some areas. All other factors being equal, the abundance of ground water in the Fort Payne would decrease with an increase in fine-grained rock in the upper unit.

Several reasons may account for the lack of ground water in the lower unit. The main reason is that the dolomite or dolomitic limestone is nearly insoluble, so that if solution openings formed at all they would tend to be small. In the laminated or thin-bedded rock, strain would be relieved along bedding planes, and no large open fractures would form. All or most of the carbon dioxide from the atmosphere and soil would be neutralized before the water reached the depths of the lower unit, and circulation ordinarily is not great at these depths; therefore, solution of even the more soluble parts of the unit is likely to be minimized. The basal part of the lower unit of the Fort Payne is generally an effective barrier to the movement of ground water, probably as effective as the Chattanooga Shale.

Only 17 wells are known to have been drilled into the Fort Payne Chert in Morgan County, excluding oil-test holes and Geological Survey test wells. Most of these wells are no deeper than the uppermost water-bearing zone in the Fort Payne.

Estimated yields from test wells tapping the Fort Payne range from less than 10 to 1,100 gpm; most of the wells would yield more than 150 gpm. The estimate of 1,100 gpm from well 8-T is probably low because the well is cased to a depth of 148 feet, and cavities totaling 12 feet in thickness were cased off to prevent caving. The cavity between the depths of 120 and 125 feet is free of sediment and contains clear water. Sand and rubble in the cavity at 139 to 144 feet interfered with drilling to such an extent that this interval was cased off, but the cavity could be cleaned out in a well with a diameter larger than 6 inches. Test well 8-T is perhaps anomalous, for little brecciation has been recognized in other test wells; however, the collapse structure extends about a mile southwest of the test well and covers between 0.2 and 0.7 square mile. The area affords a possible site for development of large quantities of ground water.

The rate of discharge given in table 2 for well 7-T is 55 gpm with a drawdown in water level of 134 feet below the land surface, but the well probably would yield more water after complete development to clear the dolomite pebbles and calcite cement from the cavity.

The Fort Payne Chert can be expected to yield quantities of water from other wells drilled in the Tennessee Valley in Morgan County comparable to the quantities developed from test wells 1-T through 11-T. In other areas of the county, yields would be much less.

Because the lower unit of the Fort Payne yields little water, wells ordinarily could be stopped at the top of this unit rather than at the Chattanooga Shale. Identification of the top of the unit is more difficult than identification of the Chattanooga, however, and if a well were stopped too high, water in the middle unit of the Fort Payne might be missed. The lower unit of the Fort Payne can be easily identified by use of electric logs. The electric log is characterized by a decrease in the resistivity curve and a positive deflection in the self-potential curve (pl. 4).

TUSCUMBIA LIMESTONE

DESCRIPTION.—The Tuscumbia Limestone is the oldest formation that crops out in Morgan County. It comprises two formations, the St. Louis Limestone and the Warsaw Limestone, but because the St. Louis and Warsaw are lithologically similar and are defined chiefly on paleontological evidence in this area, they have been combined into the one unit (Butts, 1926, p. 167-177). The area of outcrop of the Tuscumbia covers about 75 square miles of the Tennessee Valley physiographic district (pl. 1). The lower 40 feet of the formation does not crop out in Morgan County. The Tuscumbia is about 180 feet thick and is composed mainly of very light gray to light-olive-gray fine- to coarse-grained clastic thick-bedded to very thick bedded limestone, and contains nodules of bluish-gray chert. Limestone in the Tuscumbia is generally composed of grains of fossil debris and oolites. The relationship of the Tuscumbia and Fort Payne is discussed in the preceding section.

The Trinity quarry, in the $SW\frac{1}{4}SW\frac{1}{4}$ sec. 8, T. 5 S., R. 5 W., is the only place known in Morgan County where the contact of the Tuscumbia with the overlying Ste. Genevieve Limestone can be carefully examined. At this locality it appears to be conformable; however, it is probably an unconformity (Butts, 1926, p. 177; Welch, 1958).

The section of the Tuscumbia Limestone exposed in Trinity quarry is as follows:

	Thickness (feet)
Ste. Genevieve Limestone:	
Limestone, light-olive-gray to yellowish-white, medium to very coarse grained, oolitic and fossiliferous, very thick bedded	38
Tuscumbia Limestone:	
Limestone, medium to light-olive-gray, very fine grained and finely crystalline, laminated to very thin bedded, clayey, silty	12
Chert, pale-yellowish-brown and very pale orange, very fine grained or finely crystalline, intraformational breccia	2
Chert and limestone, pale to very pale orange, about 50 percent calcite fossil debris of sand size and 50 percent chemically deposited silica	9
Limestone, light-olive-gray, fine to very coarse grained, crystalline	1

Chert rubble from the chert beds is conspicuous on the land surface in parts of the outcrop area of the Tuscumbia. The chert beds are the source of the specimens of *Lithostrotionella castelnaui* in the soil in Decatur. This fossil, *L. castelnaui*, or *Lithostrotion canadense* as called by Butts (1926, p. 173), is an index fossil of the St. Louis Limestone.

GROUND WATER.—The water-bearing properties of the Tuscumbia Limestone are similar to the ground-water properties of the Fort Payne Chert, and the two formations are considered as one aquifer. Extensive cavity systems have formed in the Tuscumbia, but individual cavities generally are no more than a foot thick, and a cavity as much as 5 feet thick is rare.

The Tuscumbia Limestone yields more water than any other formation in Morgan County. The water is obtained from about 1,000 wells and springs, and is used for domestic and stock supplies. In 1960 the total withdrawal was nearly 200,000 gpd (gallons per day), the average withdrawal per well being a little less than 200 gpd. Data are not available upon which to base an estimate of the maximum sustained yield of all wells in the Tuscumbia during times of drought, but if the yield were only 10 gpm per well, the wells tapping the Tuscumbia would yield 15 mgd (million gallons per day). The yield is undoubtedly much greater, because the average of the estimated yield during times of low water levels in test wells 4-T, 6-T, and 10-T, which obtain water from the Tuscumbia, is about 80 gpm, and yields of wells 5-T, 9-T, and 11-T from the Tuscumbia are probably greater. Wells that are capable of yielding 100 gpm or more are common. It is estimated that no more than 1 percent of the supply of ground water that can be obtained from the Tuscumbia Limestone in Morgan County was being used in 1960.

A well drilled in the outcrop area of the Tuscumbia ordinarily yields a supply of water at least adequate for domestic use; however, wells drilled in a few isolated hills where the formation is drained yield little or no water. The quantity of water that can be obtained from the formation generally decreases downdip, but supplies adequate for domestic use can be expected at least as far downdip as the surface contact of the Hartselle Sandstone and Gasper Formation (pl. 1). A few wells in the areas of outcrop of the Hartselle Sandstone and Gasper Formation in the Laceys Spring area probably would yield more than 100 gpm from near the top of the Tuscumbia or at the Ste. Genevieve Limestone-Tuscumbia contact. The sulfur and mineral content of the water tends to increase downdip beyond the Hartselle-Gasper contact, and water of satisfactory quality is not likely to be obtained from the Tuscumbia more than 2 miles downdip from its area of outcrop.

Several dug wells in the area of outcrop of the Tuscumbia yield larger quantities of water than are ordinarily expected from dug wells, but they probably penetrate cavities near the top of the bedrock. For example, the dug well at the Decatur Country Club in the NE¼SE¼ sec. 32, T. 5 S., R. 4 W. (Dodson and Harris, 1961, table 2, C-19) was test pumped on April 3, 1958, at 130 gpm for 6 hours with a drawdown in water level of 3.5 feet, and during the period of low water level in the fall of 1959 the well is estimated to have been pumped at 200 gpm about 12 hours per day for about a month.

Many wells and springs in the county yield water from the cavity systems under the chert at the top of the Tuscumbia. The cavity that is cased off in well 9-T between depths of 12 and 20 feet formed below the chert bed. Clark Spring in the NE¼SE¼SE¼ sec. 36, T. 5 S., R. 5 W., yields water from the zone below the chert bed. The owner, P. H. Clark, stated that the average flow of the spring was about 200 gpm and the maximum flow was more than 600 gpm before the cavity system supplying the spring was tapped by shallow wells. The spring now flows only during times of highest water levels. About 3,000 gpm is pumped from wells in the area to supply fishponds; however, the ponds leak, so that part of the water is being recirculated. Cave Spring (pl. 3) issues from the zone below the chert bed and the yield ranged from an estimated flow of 100 gpm on October 24, 1958, to a measured flow of 4,100 gpm on April 13, 1960. Wheeler Reservoir covers Blue Spring in the

$NW\frac{1}{4}NE\frac{1}{4}$ sec. 4, T. 6 S., R. 4 W., and other springs in secs. 10 and 11, which probably flowed from the same zone.

STE. GENEVIEVE LIMESTONE

DESCRIPTION.—The Ste. Genevieve Limestone crops out in a narrow belt across the northern third of Morgan County in an area of about 45 square miles (pl. 1). The area of outcrop is in the Tennessee Valley physiographic district (fig. 4). The thickness of the Ste. Genevieve generally ranges from 40 to 65 feet and averages about 60 feet. The lower two-thirds of the formation is composed of massive thick-bedded light-gray oolitic limestone, and the upper third of the formation is composed of light- to dark-gray laminated to thick-bedded shale, chert, and limestone.

In the western part of Morgan County, the unit of very thick bedded limestone is overlain by a unit of laminated to very thin bedded medium-gray shale and limestone, which includes some chert. This shale and limestone unit is 12 feet thick in Trinity quarry and is ordinarily more than half shale. However, changes in the lithology of this unit were observed as quarrying progressed. In places, shale beds in the unit are as much as 4 feet thick. The chert content increases eastward, and in northeastern Morgan County the most prominent part of the unit is about 3 feet of chert at its base. This unit is referred to as the "shale unit" in this report. Very thin bedded to thick-bedded very fine to very coarse grained partly crossbedded partly oolitic limestone that is 5 to 20 feet thick overlies the shale unit.

The Ste. Genevieve Limestone contains, among other fossils, the distinctive stem segments and base plates of the crinoid *Platycrinites penicillus* Meek and Worthen. This fossil, where present, was used to differentiate the Ste. Genevieve and the overlying Gasper Formation. Where the fossil was not present, the uppermost shale bed in the Ste. Genevieve was used to locate approximately the contact.

Possibly the Ste. Genevieve is gradational with the Gasper Formation. Part of the Ste. Genevieve, as now defined, may belong in the Gasper Formation. The shale unit occurs 5 to 20 feet below the top of the uppermost *Platycrinites*-bearing bed; but above the shale unit the *Platycrinites* fossils are well rounded, and the spines on many of the stem plates are partly or completely worn away. Below the shale unit, most of these fossils are intact.

The basal contact of the Ste. Genevieve is discussed in the section on the underlying Tuscumbia Limestone.

GROUND WATER.—The Ste. Genevieve Limestone generally yields

ground water chiefly from small openings along contact zones in quantities adequate for domestic use. Jointing in the very thick bedded limestone is widely spaced, so that only a few cavities have formed. The shale unit restricts the downward movement of water to the underlying limestone unit. In the western two-fifths of the area of outcrop, in the northeastern part of the county, and in a few scattered smaller areas where the shale unit has been removed by erosion, and where the formation is under rather deep soil cover, water can percolate downward along joints into the lower limestone unit. If the top unit of the Tuscumbia Limestone is impermeable or nearly so, as it is in places, the water tends to move laterally into solution cavities along the contact zone. Cavities also occur along the Gasper-Ste. Genevieve contact, in the Ste. Genevieve along the top of the limestone below the shale unit, and to a lesser extent in the oolitic limestone above the shale unit.

Thrust faulting was perhaps the most significant factor in the formation of cavities at or near the top of the Ste. Genevieve Limestone in some areas. In the Trinity quarry, a low-angle thrust fault is exposed between the shale unit and the top of the Ste. Genevieve. The fault surfaces ordinarily are coated with asphalt and pyrite, and near the fault some of the coarse-grained or coarsely crystalline limestone is impregnated with asphalt. Below the water table, the fault zone and the solution cavities formed along the fault would be filled with ground water. The extent of the faulting is not known, for the only good exposure is in Trinity quarry. Slickensides were observed in the outcrop along the county line west of Trinity and in a quarry in Trinity (pl. 1). No slickensides were found at the quarry in the $NW\frac{1}{4}$ sec. 19, T. 5 S., R. 5 W., or at the quarry in the $SW\frac{1}{4}$ sec. 35, T. 6 S., R. 5 W. The top of the shale zone is at or near the land surface at both these inactive quarries, and, if the fault is present, the slickensides have been obscured by weathering. It has not been possible to determine the extent of the fault because of the rarity of unweathered exposures.

From the Gasper-Ste. Genevieve contact to a mile or so beyond and under the shale in the Gasper Formation, small quantities of water may be obtained from openings along the upper contact zone.

GASPER FORMATION

DESCRIPTION.—The Gasper Formation crops out in an area of about 70 square miles in Morgan County (pl. 1). The thickness of the Gasper generally ranges from 90 to 110 feet, but local variation in thickness may be greater than 20 feet. For example, the formation is 120 feet thick along the Lawrence County line west of Trinity, but 1.5 miles away, along Alabama Highway 24 south of Trinity, it is 98 feet thick. Differences in thickness are caused mainly by relief on the unconformity at the top of the formation and differences in thickness of the shale unit in the middle of the formation. The upper and lower

parts of the Gasper Formation in Morgan County are composed of limestone and are separated by shale. The limestones in the Gasper are ordinarily about 30 feet thick and are medium gray, thick-bedded, medium- to coarse-grained, clastic, and in part cherty and oolitic. The shale is generally about 40 feet thick and is medium gray, soft, and calcareous, and in places contains thin beds or lenses of gray limestone. The lithology of the Gasper is not uniform in Morgan County; for example, in the western part the formation is composed of as much as 60 percent shale, and in parts of the northeast corner of the county the formation is composed of as much as 90 percent limestone.

The Gasper Formation is unconformably overlain by the Hartselle Sandstone, as part of the Gasper was eroded and redeposited at the base of the Hartselle. This contact is discussed in detail in the section on the Hartselle Sandstone.

GROUND WATER.—Ground water in the Gasper Formation occurs in solution openings in the limestone. These openings are extensive and best developed at the contact of the Hartselle Sandstone and the Gasper, and at the contact of the upper limestone and the underlying shale. Solution cavities developed at the top of the Gasper may extend into the basal conglomeratic limestone of the Hartselle Sandstone. Water in the cavities is confined by sandstone or shale in the Hartselle Sandstone and by the shale in the middle part of the Gasper. A few wells tapping these cavities in the western part of Morgan County flow (Dodson and Harris, 1961, wells N-4, N-6, and N-9). Along the escarpment in the northern part of Morgan County are several hundred springs that flow from cavities in the limestone in the upper part of the Gasper. Discharges of many of these springs range from 10 gpm during periods of low water level to 100 gpm during periods of high water level. Shumake Park Spring (Dodson and Harris, 1961, spring M-232), flowing from a tubular opening in the limestone bed in the upper part of the Gasper, had an estimated flow of 100 gpm on February 26, 1959, and an estimated flow of 75-100 gpm during the fall of 1959.

In many areas of Morgan County the upper limestone bed of the Gasper has been removed by solution, and the overlying Hartselle Sandstone has collapsed onto the shale bed of the Gasper. This collapse feature is exposed in road cuts along Alabama Highway 24 south of Trinity, along U.S. Highway 31 between Flint and Hartselle, and at Flint (fig. 6). The collapse of the sandstone in the Hartselle has broken the sandstone mass, thus increasing its permeability and forming recharge areas for the upper part of the limestone in the Gasper.

The shale unit in the Gasper Formation in Morgan County is the first persistent confining bed above the Chattanooga Shale. It forms an effective barrier to the downward percolation of ground water, except in parts of the northeast corner of the county where it is thin and is

Figure 6.—Collapse of Hartselle Sandstone onto shale in the Gasper Formation along U.S. Highway 31 at Flint, Ala. Photograph facing east, taken by George W. Swindel, Jr.

composed of limestone interbedded with shale. These limestone beds do not yield water to wells penetrating them.

The lower limestone unit in the Gasper is not a productive aquifer in Morgan County.

In the areas of outcrop of the Gasper Formation and the Hartselle Sandstone, wells that tap the upper limestone in the Gasper generally yield 10 to 100 gpm of water of satisfactory quality for domestic and stock use. Downdip beyond the Hartselle outcrop area, almost all water in the upper limestone is in thin tabular cavity systems immediately underlying the Hartselle, and water supplies from the Gasper are inadequate.

HARTSELLE SANDSTONE

DESCRIPTION.—Smith (1894) named the Hartselle Sandstone for exposures at Hartselle in Morgan County. The Hartselle caps the low escarpment that extends from near Trinity to Hartselle and to the northeast corner of the county near Laceys Spring. The area of outcrop of the Hartselle in the county covers about 90 square miles (pl. 1). Sandstones in the Hartselle are more resistant to erosion than the underlying and overlying limestone formations; the sandstones form the escarpment and the small plateau that characterize the Little Mountain

physiographic district (fig. 4).

The thickness of the Hartselle ranges from 5 to 120 feet from east to west. Butts (1926, p. 193) states that the Hartselle "* * * abruptly dies out * * * just east of the line, in Marshall County * * *," but the Hartselle is not less than 5 feet thick in all outcrops visited in Morgan County. The formation is missing in a well drilled in the NE¼NE¼ sec. 16, T. 7 S., R. 2 W., but in another well 1.5 miles northeast, in the SE cor. sec. 3, it is 100 feet thick. The normal thickness of the formation along the Bangor Limestone-Hartselle contact in the outcrop area near these wells is about 45 feet. Thrust faulting or nondeposition in one place and fill of a deep channel in the other could account for the anomalous thicknesses. No narrow, deep channel has been found elsewhere; however, many large pieces of slickensided shale from the Gasper Formation were bailed from the well in section 16. Faulting in outcrops near these wells was not in evidence, but the soil cover is extensive in this area and a fault zone probably would be covered.

The Hartselle consists of gray fine-grained thin- to thick-bedded partly massive crossbedded quartzose silty, well-cemented calcareous sandstone, and a few beds of silty or sandy shale and siltstone. Commonly, near the bottom the formation contains interbedded, very thin bedded or laminated gray sandstone, siltstone, and shale, which is about 10 feet thick. Colors of the rocks are various shades of gray, chiefly greenish olive or bluish gray. The formation weathers yellowish brown.

The bottom bed of the Hartselle is ordinarily a basal conglomeratic limestone that contains limestone pebbles and fossil debris from the underlying Gasper Formation, but the lowermost bed may be sandstone, shale, or clastic limestone. The clastic limestone is conglomeratic in places; the pebbles are rounded pieces of fossils. The basal part of the lowermost sandstone bed in the Hartselle is commonly silicified. The silicified sandstone, or quartzite, generally ranges in thickness from 0.5 to 1 foot.

The Hartselle Sandstone unconformably overlies the Gasper Formation. The greatest local relief on the unconformity is 5 feet along a distance of 150 feet. If the anomalous thickness of Hartselle in the well in the SE cor. sec. 3, T. 7 S., R. 2 W., is due to filling of a channel eroded into the Gasper Formation, local relief here may be greater than 60 feet. The contact with the Bangor Limestone is gradational. The stratigraphic relationship of the Hartselle and Bangor is discussed in the section on the Bangor.

GROUND WATER.—Wells tapping the Hartselle Sandstone ordinarily yield less than 10 gpm. The sandstones are so fine grained, poorly sorted, and well cemented that most of them are only slightly permeable, and water in the formation is stored and transmitted chiefly in the open spaces along joints. Less commonly, the water is in spaces along bedding planes. If thrust faulting has occurred in the formation, moderate quantities of water may occur locally along the spaces between beds separated by bedding-plane faults.

Thrust faulting has not been observed, but local conditions suggest the presence of faulting. Some of the most productive wells in the Hartselle yield water from the very thin bedded sandstones, siltstones, and shales near the bottom of the formation. The largest yields from these beds have been from wells about 0.8 mile east of Plainview School. A bailing test of one of these wells indicates a yield greater than 20 gpm, which is the largest capacity known for a well tapping the Hartselle.

The basal conglomeratic limestone, which commonly is a good aquifer, is discussed with the Gasper Formation because there is a closer hydrologic relation than there is between the basal conglomeratic limestone and the typical Hartselle.

The Hartselle Sandstone generally cannot supply the quantity of water needed for domestic use; however, the maximum thickness of the formation in the county is only about 120 feet, and water can be obtained from the underlying Gasper Formation in many parts of the area. Water may be obtained also from formations older than the Gasper in a few areas--mostly near the escarpment capped by the Hartselle Sandstone.

BANGOR LIMESTONE

DESCRIPTION.—The Bangor Limestone crops out over a larger area in Morgan County than any other formation--about 160 square miles (pl. 1). Most of the area is in the Moulton Valley physiographic district (fig. 4), a feature that resulted from solution of limestone between two resistant sandstone formations (section A--A' on pl. 1). In much of the eastern part of the county, the Bangor crops out in the escarpment along the Cumberland Plateau. The portion of the formation that crops out in the escarpment diminishes westward until almost all the outcrop area is in the Moulton Valley.

The average thickness of the Bangor is about 340 feet. No place was found in the county where the formation could be accurately measured, chiefly because exposures of the bottom contact are rare. Welch (1958) reports that the Bangor is about 345 feet thick on Monte Sano in Madison County, and 470 to 500 feet in Franklin County. If the change in thickness is at a constant rate, the Bangor is probably about 400 feet thick in the southwest corner of Morgan County and about 350 feet thick in the northeast corner.

The Bangor Limestone generally comprises beds of gray to bluish-gray finely crystalline or very fine grained to coarse-grained thin to very thick bedded partly oolitic limestone and a few beds of olive-gray calcareous shale. Some of the limestone in the upper half of the formation is dolomitic and argillaceous and is interbedded with shale. Chert nodules are common in some of the limestone. The lithology and stratigraphy of the Bangor differ vertically and horizontally.

The Bangor is gradational with the Hartselle Sandstone, and may interfinger with the Hartselle. Beds of Bangor Limestone contain abundant quartz sand grains as much as 50 feet above the basal contact. The base of the Bangor was drawn at the horizon where the lowermost specimens of *Prismopora serrulata* and other index fossils of the Glen Dean Limestone occur. Where the gradational zone is thin, the lowermost part of the Bangor may be limestone or shale that contains little sand, but where the gradational zone is thick, the lowermost part may contain more than 50 percent sand. In wells and outcrops studied south and west of Hartselle, a basal unit in the Bangor comprises very thin to laminated beds of dark-bluish-gray very sandy, silty argillaceous fossiliferous limestone, or a similar calcareous sandstone, interbedded with laminated or very thin bedded shale.

Welch (1958), in his section 22, shows about 10 feet of argillaceous dolomite at the top of the Bangor Limestone. In this report this dolomite is interpreted as the basal bed of the Pennington Formation, because a very thin red or green shale bed, characteristically Pennington, occurs below the dolomite locally.

GROUND WATER.—The water-bearing properties of the Bangor Limestone are as diverse as its lithologic characteristics or its physiographic settings. The argillaceous limestone or dolomitic limestone beds contain few cavities and, therefore, little ground water, but the thick-bedded coarse-grained oolitic limestone beds may contain large cavities and large quantities of ground water. Along the escarpment, water ordinarily drains from the formation and wells yield little water, but in parts of the Moulton Valley, wells yield large quantities of water.

The physiographic setting of the Bangor exerts greater control over its water-bearing properties than any other factor. About 75 percent of its outcrop area is in a basin, the Moulton Valley. The shale in the basal unit of the Bangor and the well-cemented thick-bedded sandstone near the top of the Hartselle Sandstone form a nearly impermeable barrier to the downward movement of ground water. Thus ground water is confined largely to movement within the Bangor. The area is drained chiefly by only two streams, Flint and Cotaco Creeks, which have cut shallow breaches through the barrier formed by the Hartselle Sandstone. The water table is generally shallow. Cavity systems are not extensive and generally are at a depth of less than 50 feet. Water that is obtained at greater depths is probably from small openings along joints rather than solution cavities.

Several hundred wells and springs yield supplies of water from the Bangor Limestone adequate for domestic and stock use; other wells, perhaps an equal number, do not yield supplies adequate for domestic use. Many of the wells of low yields are within a few feet of more productive wells. The difference in yield is a result of local conditions rather than general water-bearing properties of the formation. The municipal well at Falkville (Dodson and Harris, 1961, table 2, well X-11) taps the Bangor and is pumped about 12 hours per day to supply about 30,000 gallons. The well reportedly could yield more than 150,000 gpd. Test well 12-T is 2,000 feet S. 60° W. of the Falkville municipal well, but the yield of the test well was only 33 gpm on June 8, 1961.

The quantity of water obtained from the Bangor is erratic from well to well. However, the Bangor Limestone can be classed as a moderately good aquifer in Morgan County. This is substantiated by the occurrence of many springs that issue from thick-bedded limestone in the Bangor (Dodson and Harris, 1961, table 2). On August 8, 1958, the estimated flow of Hughes Spring was 500 gpm, and on April 13, 1960, the measured flow from the spring was 4,100 gpm (pl. 3). Springs flowing from the Bangor generally are not as large as Hughes Spring, but the minimum flow of several springs probably would be greater than 100 gpm during a drought.

Along the top of the escarpment in the area of outcrop of the Pottsville Formation near Williams Cove Spring (I-266), Lamons Spring (R-125), or Hughes Spring (R-157), wells drilled into the Bangor Limestone might penetrate closely spaced well-developed joints, which could yield enough water for domestic use.

PENNINGTON FORMATION

DESCRIPTION.—The Pennington Formation crops out in a narrow band along the escarpment of the Cumberland Plateau and in outliers in the Moulton Valley district (fig. 4; pl. 1). The thickness of the Pennington ranges from 70 to 150 feet and averages about 100 feet. An unconformity at the top of the Pennington causes local variation in the thickness.

The lowermost bed of the Pennington is a very thin red or green shale that locally separates the Bangor Limestone from the 10-foot thick bed of dolomite included by Welch (1958) in the Bangor. The dolomite is light gray, very fine grained or finely crystalline, argillaceous, and partly calcareous. About 5 to 20 feet of red and green shale that is characteristic of the Pennington overlies the dolomite and is gradational with the overlying limestone. The limestone is medium to light gray, fine grained or finely crystalline, argillaceous, thin to thick bedded,

and interbedded with red and green shale. In the middle of this argillaceous limestone, and gradational with it, is an oolitic limestone that is medium to light gray, medium to coarse grained, and thick bedded. The upper 5 to 20 feet of the Pennington consists of the characteristic red and green shale.

GROUND WATER.– The Pennington Formation generally is a poor aquifer; wells rarely yield a supply adequate for domestic use. Several factors account for the poor yield of wells. The Pennington generally crops out in a steep escarpment so that recharge conditions are poor. The impermeable shales at the top and near the base of the formation prevent water in the Pottsville or Bangor from moving to the thick limestone beds in the middle of the Pennington. Cavities in the limestone and dolomite are small and uncommon; however, locally springs issue from caves in the Pennington. Fluctuation of flow from springs issuing from the Pennington generally is great. The flow in the spring branch below the springs at Cole Spring was 360 gpm on April 12, 1960, but it is probably less than 100 gpm during a drought. Conditions reported by drillers indicate that some wells yield water from cavities in the Pennington immediately below the Pottsville-Pennington contact. A chemical analysis of water from one well (table 4, R-115) suggests that the yield is from limestone in the Pennington rather than from sandstone in the Pottsville. A bailing test of this well indicates that its estimated yield of 20 gpm is greater than would be expected from either the Pottsville or the Pennington. A few wells considered to develop water from the Pottsville actually may be supplied from aquifers in the Pennington.

POTTSVILLE FORMATION

DESCRIPTION.–The Pottsville Formation, the only formation of Pennsylvanian age in Morgan County, underlies an area of about 110 square miles in the eastern, southeastern, and southwestern parts of the county (pl. 1). This area is mountainous and is a part of the Cumberland Plateau section of the Appalachian Plateaus physiographic province (fig. 4; Fenneman, 1938, p. 333-342, 691, pl. 3). The maximum thickness of the Pottsville in Alabama is 9,000 feet (Butts, 1926, p. 217), but erosion has removed much of the formation in Morgan County so that its maximum thickness is less than 300 feet.

The Pottsville Formation in the county is composed of fine- to coarse-grained poorly sorted thick to very thick bedded sandstone; very fine grained laminated to thin-bedded silty sandstone interbedded with shale and siltstone; silty to sandy carbonaceous shale; conglomerate; and, locally, a few thin beds or lenses of coal. The sandstones and conglomerates are generally quartzose and are well cemented by calcite. Beds and lenses of conglomerate, which contain a few subangular pebbles of shale from the Pennington Formation, occur locally at the base of the Pottsville. Rocks in the Pottsville are chiefly gray, commonly greenish, olive, or bluish gray, and they generally weather yellowish brown.

A major unconformity separates the Pottsville Formation from the Pennington Formation. Relief of the unconformity in Morgan County may be about 80 feet, as the range in thickness of the Pennington is probably due to this relief. Local relief on the unconformity can be observed along the west side of Alabama Highway 157 southeast of Massey near the county line.

GROUND WATER.–The permeability of the Pottsville is low because the sediments composing the rocks are poorly sorted and the rocks are well cemented. Ground water occurs mainly in openings along fractures and bedding planes. Joints are the most common fractures, and faults occur locally. Few wells yield more than 10 gpm; many supplies are inadequate for domestic needs during a drought. Because of the complex lithology of the Pottsville, yields differ greatly from place to place.

The inadequacy of ground-water supplies from the Pottsville is a critical problem in some parts of the county, for instance in the Union Hill-Morgan City area. The problem will become widespread in areas underlain by the Pottsville as the demand for ground water increases. In scattered areas water can be obtained from wells drilled through the Pottsville into the top of the Pennington Formation. As pointed out in the section on the Bangor Limestone, wells drilled through the Pottsville and Pennington might yield enough water from the Bangor to relieve the critical water shortage in the Union Hill-Morgan City area. Little water is likely to be available from formations below the top of the Pennington in the area underlain by the Pottsville in the south half of the county. Community growth there will depend to a great extent on how well the ground water available from the Pottsville is developed and managed.

POST-PENNSYLVANIAN UNDIFFERENTIATED

DESCRIPTION.–Unconsolidated deposits cover about 95 percent of the bedrock in Morgan County. These deposits are of post-Pennsylvanian age and consist of soil, alluvium, colluvium, residuum, and other unconsolidated materials composed of clay, silt, sand, gravel, and chert rubble. The average thickness of the unconsolidated deposits is estimated to be 30 feet. Generally the thickness ranges from 15 feet for deposits overlying the Pottsville Formation and Hartselle Sandstone to 40 feet for deposits overlying the Tuscumbia Limestone. Locally the unconsolidated deposits overlying the Tuscumbia may be more than 100 feet thick.

GROUND WATER.—Supplies of ground water adequate for domestic use are available from the unconsolidated deposits in many areas of Morgan County. Bailing tests indicate that a few wells yield more than 20 gpm. Supplies from residual deposits overlying sandstone and supplies from alluvial deposits generally are inadequate. Large supplies are developed locally from chert rubble; well K-30 (Dodson and Harris, 1961, table 2) yielded more than 20 gpm between depths of 38 and 48 feet.

Drilled wells develop supplies adequate for domestic use from unconsolidated deposits only in an area less than 3 miles wide along Wheeler Reservoir from Flint Creek to a mile east of Talucah. In other areas only dug wells have proved successful.

Colluvial deposits of broken Hartselle Sandstone are generally not permeable because of their poorly sorted character; however, they are more permeable than the Hartselle and they contain large quantities of water which are slowly released from storage. Much of the water that flows from springs in the Gasper along the escarpment has come from storage in the colluvial deposits of broken Hartselle. The discharge of many of these springs is remarkably constant. In most of the limestone springs in the county the ratio between the high and the low discharge is commonly more than 10 to 1, but it may be as low as 2 to 1 in the springs flowing from the Gasper.

GROUND-WATER RESOURCES

According to Curtis (1953), an average of 11.4 inches of the annual precipitation in the Tennessee Valley region seeps into the ground and becomes ground water. If Morgan County is typical of the areas in the Tennessee Valley region, the daily supply of ground water from rainfall would be about 300 million gallons. This quantity can be considered the theoretical maximum that is available without withdrawal from storage; however, because of hydrologic and economic limits, the quantity that can be obtained will be much less.

Much of the ground water is lost directly to streams, both from the aquifers and from less permeable rock. Seepage from a less permeable formation to streams over a great distance can equal a large volume of water. Among variable factors that will determine the quantity that can be economically produced in the future are locations and depths of new wells, construction and operation costs, pumping rates, and ground-water demand. The investigation of the ground-water resources of Morgan County has shown that many times as much ground water is available in the county as was being used during the period 1957-61.

More than 2,500 wells were inventoried in Morgan County (Dodson and Harris, 1961, table 2), and the total number of wells being used in June 1961 is estimated to be about 5,000. Most of the wells are being used for domestic supplies or to supply a home and a few head of stock, and the average daily yield is probably less than 500 gpd. If the average yield were 500 gpd, the total daily yield would be only 2.5 million gallons. Data are not available upon which to base an estimate of the maximum capacities of the wells, but if the average capacity per well were only 10 gpm, the total daily yield would be 72 million gallons. From the tabulation of selected spring flows (table 3), eight springs showed a total daily yield ranging from 2.1 million gallons to 3.6 million gallons. The maximum daily yield that can be obtained from the 12 test wells drilled in the county is estimated to be about 4.3 million gallons during periods of low water levels.

All these facts emphasize that the total quantity of ground water available for use is not of immediate concern in the county. Factors that affect the quantity of ground water available locally or factors that periodically affect the available quantity are of more immediate concern in the utilization of ground water in Morgan County and will be discussed in the following sections.

QUANTITY AVAILABLE

The quantity of ground water available in the county is constantly changing. Variations in rates of precipitation, evaporation, transpiration, and pumping, reservoir stages, and other factors change the availability of ground water. Fluctuations of water levels in wells and fluctuations in the flow of springs are the principal indicators of the overall quantitative change. Precipitation and evapotranspiration are the main natural processes that cause significant changes in the volume of ground water available. Precipitation that percolates through the soil and enters the aquifers causes an upward trend of the water table, and evapotranspiration during the growing season causes a downward trend of the water table. Minor causes of fluctuations of the water level that are most common are illustrated by hydrographs in figure 7. Distant earthquakes, passing railroad trains, and changes in atmospheric pressure may cause small fluctuations of water level in Morgan County, but do not change the quantity of ground water available.

Pumping other wells may cause fluctuations of the water levels in wells tapping the same aquifer. The amplitude of fluctuations may be small or large, depending on the rate of withdrawal, distance from the pumped well, and other factors. The effect of pumping 10 gpm from a domestic well on the water level in well 7-T, 800 feet east, is shown in figure 7e. The effect of pumping 200 gpm from well B-330 at Trinity on the water level in well 5-T, 4,000 feet southeast, is shown in figure 7c. The quantity of available ground water was reduced locally, but the total quantity available in the county was not significantly affected;

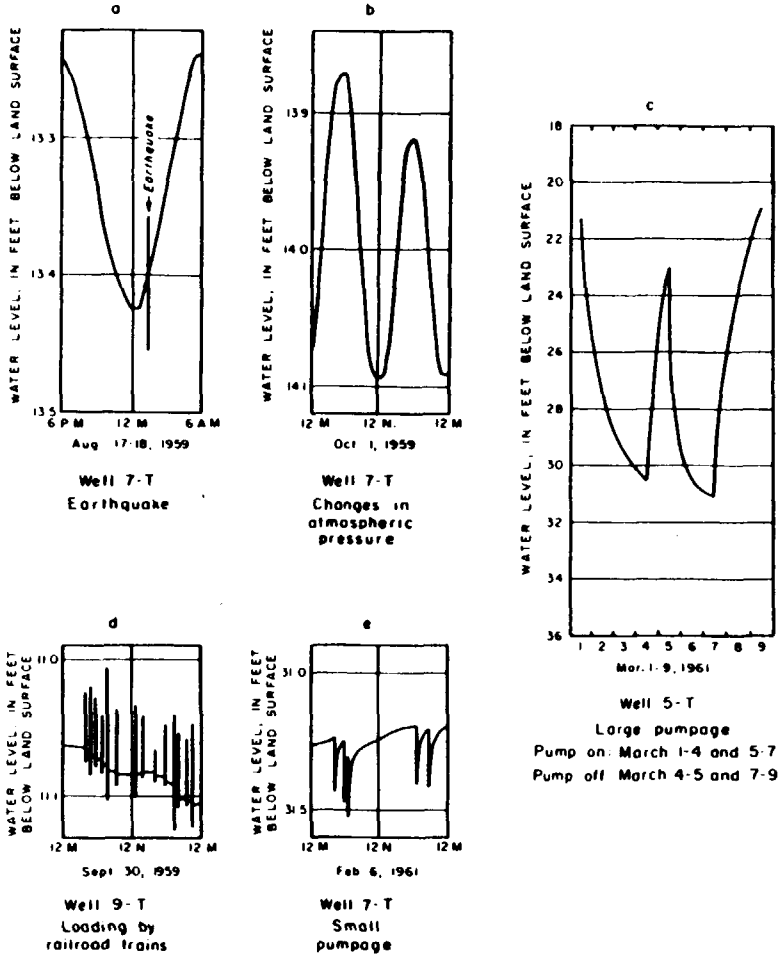


Figure 7.—Some causes of fluctuation of water levels in wells in Morgan County.

however, a large number of wells being pumped could reduce the quantity of available ground water in Morgan County. In a few areas near Morgan City and Union Hill, pumpage exceeded the recharge of ground water in 1961, but the problem is not expected to be general throughout the county in the foreseeable future.

The hydrograph of test well 5-T (fig. 8) illustrates the response of water levels to precipitation. The amplitude of water-level fluctuations caused by changes in precipitation are generally greater in well 5-T than in most of the wells in the county; otherwise, the water-level reactions are typical. During or after periods of rainfall the water level rises in the well proportionately to the amount of rainfall, and during periods of little or no rainfall it declines.

Abnormally heavy rains between August 21 and October 10, 1960, caused a sharp rise of water levels in wells in the county. During the 24-hour period ending at 7:00 a. m. August 22, 1960, the precipitation recorded at the Decatur station was 3.99 inches, which is the greatest amount recorded during the period of this investigation. Similar water-level fluctuations were recorded for the other observation wells in the county.

Large seasonal fluctuations of water levels in wells are caused by evapotranspiration, the process by which ground water is lost to the atmosphere, both directly and indirectly. Ground water may evaporate directly to the atmosphere from the soil, if the water table is at or near the land surface, or from springs and seeps (Meinzer, 1923a, p. 82; 1923b, p. 48-50; 1942, p. 414-415). Large quantities of ground water are discharged indirectly by transpiration, the process by which water vapor escapes from plants and enters the atmosphere. Roots of much of the vegetation in the county extend into the capillary fringe or into the zone of saturation below the water table (Meinzer, 1923b, p. 23) and extract ground water during the growing season.

A general decline of water levels begins in Morgan County about the last week of March and continues to about the first week in November, unless modified by abnormally heavy rainfall. Figure 8 shows the decline beginning March 16, 1960, and continuing to August 22, 1960, when the abnormal rainfall reversed the trend. The amplitude of change in water level in well 5-T would ordinarily be about 20 feet.

The surface of a stream draining an area is the base level of the water table in that area, and fluctuations in streamflow will cause fluctuations in the water table. The effect is ordinarily not large in Morgan County, but fluctuations of the impounded level of Wheeler Reservoir may cause greater fluctuations in the volume of ground water available in parts of the county than either evapotranspiration or rainfall. During 1961, extraordinary conditions offered an opportunity to study the

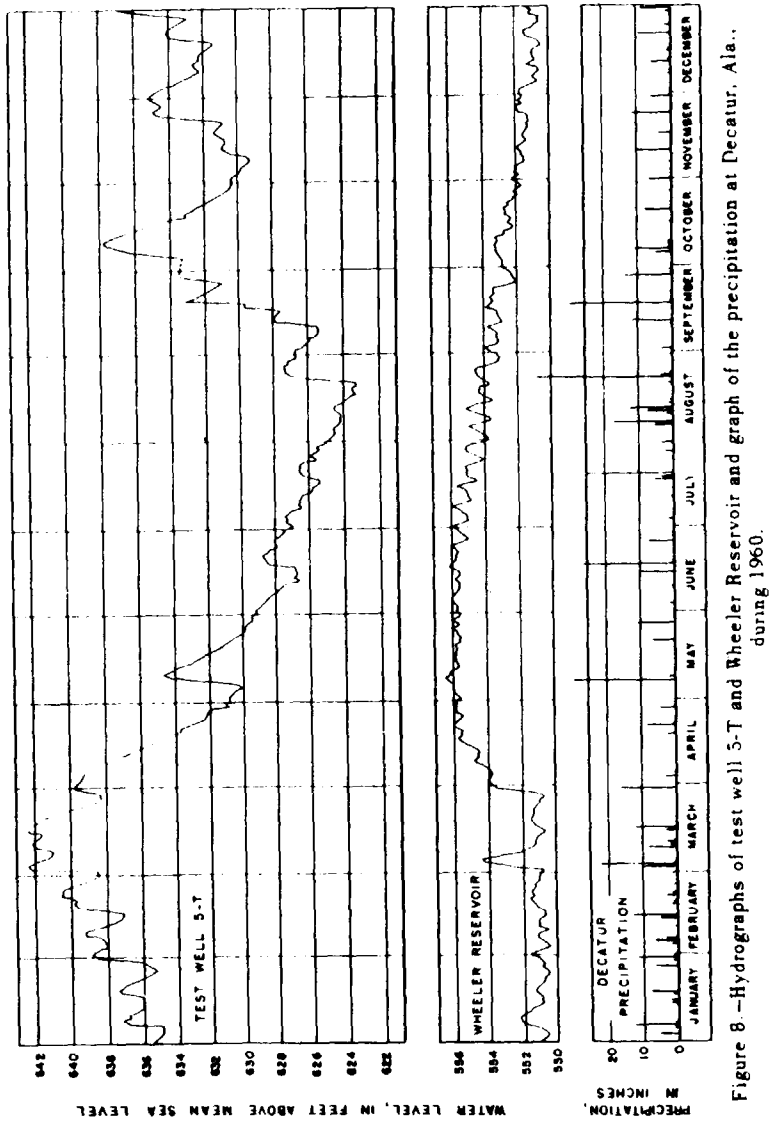


Figure 8.—Hydrographs of test well 5-T and Wheeler Reservoir and graph of the precipitation at Decatur, Ala., during 1960.

effects of reservoir fluctuations on ground-water levels in Morgan County. Floods, beginning February 17, 1961, filled the reservoir to the second highest stage since construction of Wheeler Dam, and the water level in the reservoir fluctuated in response to flood-control operations until March 17, when it began the gradual rise to the annual full-pool stage. Both rainfall and reservoir stages caused fluctuations in ground-water levels, but the fluctuations were much larger than they would have been from the amount of rainfall alone. In the evening of June 2, 1961, the north wall of Wheeler Lock burst while the upstream lock gate was open, and the water level in Wheeler Reservoir dropped 6.5 feet by June 4. The effect on the water level in well 8-T is shown in figure 9. The water level in the reservoir had been held near full-pool stage, about 556 feet above sea level, since April 12. About April 16 the water level in the well began the seasonal decline, but it dropped 3.3 feet after the reservoir level dropped. The level in the well rose with the rise in the reservoir after the gate was closed until June 8, when the water table resumed the seasonal decline.

The change in the quantity of water available during periods of high and low water levels is reflected in part by the change in spring discharges during these periods (table 3).

The quantity of water that is available in a given volume of limestone or sandstone is difficult to determine, because the water-bearing openings of the rocks differ in size and interconnection from place to place. Compact, unfractured limestone yields little or no ground water to wells. Within the zone of fluctuation of the water table in Morgan County, about 10 percent of the total volume of the rock formations may be filled with ground water. If this is true, each foot of fluctuation of the water table, over the whole area of Morgan County, represents a change of about 12.5 billion gallons of ground water. This volume is equal to about 20 million gallons per square mile, or about 30,000 gallons per acre; but these figures cannot be applied to a given area of the size indicated even though the 12.5 billion gallon figure may be valid for the county as a whole. The volume of available ground water is far greater than 30,000 gallons per acre in some areas and is much less in other areas. It is generally greater in the Tennessee Valley district and less in the Little Moulton district and the Cumberland Plateau section (fig. 4).

The fluctuations observed in selected wells and springs are shown on plate 3. The bars represent the difference between the highest and lowest water levels of record and the difference between the maximum and minimum flows from springs. The difference in fluctuation from area to area and from well to well is clearly demonstrated. The fluctuations of flow of springs are representative of limestone springs in the county. The average fluctuation of all wells shown is 14 feet, which would represent a difference within the county of about 175 billion gallons of ground water if 10 percent of the total volume of rock contained

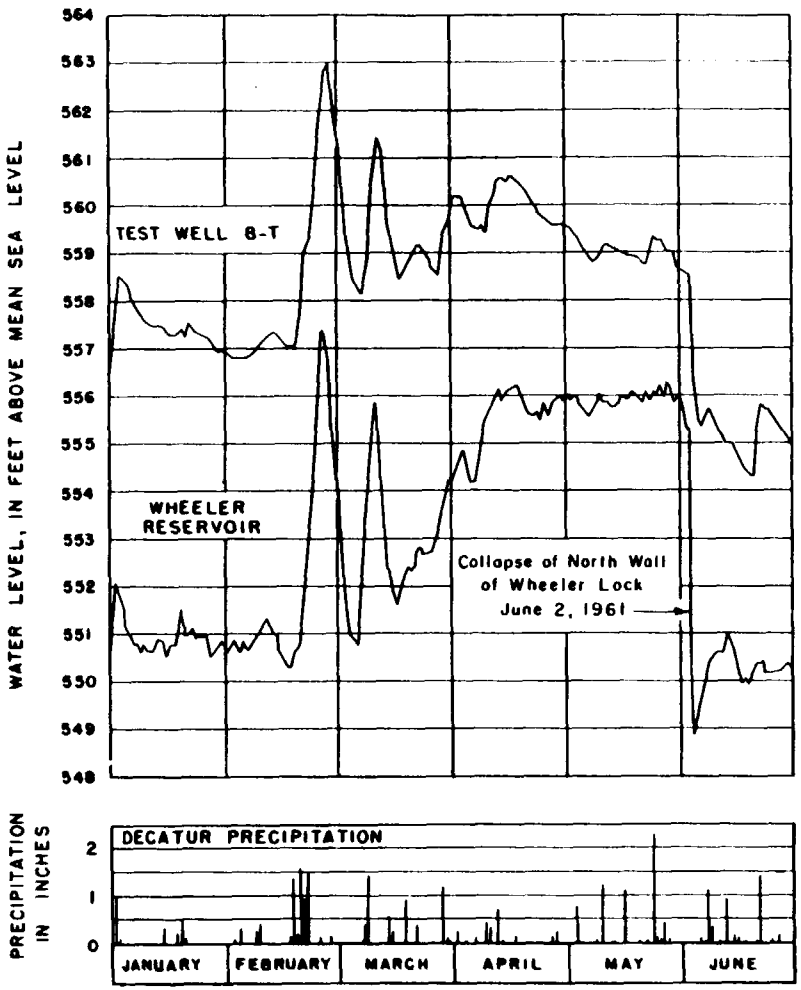


Figure 9.—Hydrographs of test well 8-T and Wheeler Reservoir and graph of the precipitation at Decatur, Ala., from January 1 to July 1, 1961.

Table 3.—*Discharge from springs in Morgan County, Ala*

Spring no.	Spring name	Water-bearing formation	Estimated flow (gpm)	Date	Measured flow (gpm)	Date of measurement
I-108	Laceys	Gasper Formation	40	8-21-29[1/]	450	4-13-60
I-266	Williams Cove	Bangor Limestone	300	5-21-58	660	4-13-60
K-1	Cave	Tuscumbia Limestone	100	10-24-58	3,800	4-14-60
Q-70	Peck	Bangor Limestone	300	3-10-59	480	4-13-60
R-157	Hughes	Bangor Limestone	500	8- 8-58	4,100	4-13-60
V-17	Copper	Pottsville Formation	100	3-18-59	150	4-13-60
W-32	Cole	Pennington Formation	50	9-15-58	360	4-12-60
X-93	Blowing	Bangor Limestone	100	4- 8-59	100	4-12-60

1/ Johnston (1933)

ground water.

The capacities of about 25 wells have been determined by pumping tests in Morgan County. The yield of test well 8-T is the highest known in the county, and its maximum yield during the period of water-level high is estimated to be 1,100 gpm. Wells that will yield more than 100 gpm are common in the area within the Tennessee Valley district (fig. 4). The yields of Hughes Spring (Dodson and Harris, 1961, table 2, R-157) and three other springs (table 3), flowing from the Bangor Limestone, indicate the possibility of developing wells that would yield 100 gpm in parts of the Moulton Valley physiographic district.

Several flowing wells have been drilled in the county (Dodson and Harris, 1961, table 2). Little is known about the flows except from test well 12-T, which is less than 1 gpm from the Bangor Limestone. This well has been pumped at 33 gpm (table 2).

STRUCTURAL CONTROL

All the water-bearing formations in Morgan County, except parts of the Pottsville Formation, were deposited in horizontal beds on the bottom of the sea. Later the rocks were tilted, folded, and faulted, and now the beds are only locally horizontal. The structural-geology map shows the present configuration of the top of the Chattanooga Shale (pl. 2).

The regional dip is south about 30 feet per mile. Ground water tends to move through the aquifers in the direction of regional dip, but many factors alter this general trend. The most significant of these factors are local folding, regional and local fractures, faults, and collapse structures.

The rocks do not dip uniformly with the regional dip but are folded into broad anticlines and synclines. The dip of these folds in some places is greater than or opposite to the regional dip. These broad folds control the movement of the water. They also contain local flexures that exert control over the movement of ground water in like manner. Water flows by gravity from anticlines to synclines. Test wells 6-T and 10-T, in structural highs, were dry holes. Test wells 1-T through 5-T and 7-T through 9-T all produced over 50 gpm in structurally low areas. The structural high in the vicinity of Hartselle is the largest in the county. The combined yield of several municipal test wells drilled at Hartselle was less than 100 gpm, and the maximum yield of any one well was probably less than 20 gpm.

Joints, nearly vertical, are the most common fractures in the county and all cavity systems in the limestone aquifers have formed

along or have been influenced by joint systems. Figure 5 illustrates the control of joints over the movement of ground water. Other forms of cavities associated with joints have been observed in the county, but most of them are modifications of those shown in figure 5. Although not shown as such, the cavity formed in the zone of fluctuation of the water table, between points C and D, also would ordinarily be formed along a joint. Even where a cavity is formed along another feature, the larger parts of the cavity generally tend to form along joints. Locally, the Pottsville Formation is intensely jointed, and many of the more productive wells in this formation are probably in areas where jointing is closely spaced and well developed.

A thrust fault with associated high-angle faults, strike-slip faults, and small folds is exposed in the Pottsville and Pennington Formations in Morgan County, an occurrence similar to that in Tennessee (Stearns, 1955). Good exposures of faults in the county are few, and faulting in the Pottsville and Pennington has been observed only south of Florette (figs. 10, 11, 12). In sec. 26, T. 7 S., R. 2 W., the exposed Pottsville-Pennington thrust fault has at least two possible strike-slip faults and numerous small folds associated with the thrust fault. Part of the exposed fault plane appears to be a high-angle normal fault (fig. 10), but the fault here is a strike-slip fault, for movement was chiefly horizontal, perpendicular to the road cut. The fault plane probably is nearly horizontal at a shallow depth below the road cut, as the angle of the

Figure 10.- Strike-slip fault in road cut 1 2 miles south of Florette, Ala. Photograph facing west.

fault is much less at the base than it is elsewhere in the cut. Figure 11 shows the crushed and broken sandstone in a zone more than 25 feet thick above the fault plane. In association with the thrust fault, small compression folds occur in the laminated to very thin bedded sandstone of the Pottsville Formation. These folds were observed in the northern part of Cullman County southwest of Lacon and are due possibly to the thrust fault mapped in sec. 22, T. 8 S., R. 4 W.

A well drilled in the SW¼SW¼ sec. 22, T. 8 S., R. 4 W., west of Lacon, penetrated the Pottsville-Pennington contact about 160 feet below the altitude of that contact in an outcrop about 300 feet north of the well. The block of sandstone in the Pottsville Formation in sec. 10, T. 8 S., R. 2 W., is a thrust-fault slice with the Pottsville-Pennington contact approximately 100 feet lower than the surrounding area. The block of sandstone dips to the southeast about 80 feet in 1 mile, or from two to three times the normal rate of regional dip. An increase in dip indicates a monocline from the Cole Springs area east to sec. 10, T. 8 S., R. 2 W., and then northeast to sec. 18, T. 7 S., R. 1 E. Structure along this line possibly is related to the exposed thrust fault in sec. 26, T. 7 S., R. 2 W. A thrust fault similar to that shown in figure 11 is exposed in the Trinity quarry about a mile north of Trinity, and evidence of bedding-plane faulting has been found in other quarries in the county.

Springs flowing from the Pottsville Formation generally do not exceed 10 gpm; but locally three springs by their unusually high flow indicate movement of water along a possible thrust fault near the base of the Pottsville Formation. Peck Mountain Spring (Q-68) flowed at an estimated rate of 100 gpm on March 12, 1959. The spring flows from the coarse sandstone and conglomerate in the thrust fault area exposed in a road cut along Morgan County Highway 35, 2 miles south of Florette, Ala. Copper Spring (V-17) flowed at a measured rate of 150 gpm on April 13, 1960. No surface evidence of thrust faulting was observed in the vicinity of Copper Spring, or at Lynn Spring (S-39), which flowed at an estimated rate of 50 gpm on August 1, 1958; but their high yields are attributed to thrust faulting in the base of the Pottsville Formation or the Pennington Formation.

In some wells the aquifer is a unit composed of thin interbeds of shale, siltstone, and very fine grained sandstone--a lithology that might be expected to yield little or no water. Slippage along the beds, resulting from faulting in the thrust-fault zone, opened up spaces where the water was stored and transmitted and could account for the above-average yields of wells Q-69, R-122, R-197, and V-72. Small folds in association with the thrust fault south of Florette (fig. 12) could account for the adequate domestic and stock supplies from wells in the area. A similar unit of thin-bedded folded Hartselle Sandstone yields above-normal domestic supplies in the Plainview School area and could be related to a fault here similar to the area south of Florette.

Figure 11.—Thrust fault in road cut 1.2 miles south of Florette, Ala., showing crushed and broken zone above fault plane. Photograph facing west.

Figure 12.—Small fold associated with thrust fault about 1.5 miles south of Florette, Ala.; cut is 30 feet deep. Photograph facing west.

The Hartselle Sandstone has collapsed into solution cavities in the underlying limestone of the Gasper Formation in parts of Morgan County. Colluvial deposits of broken Hartselle Sandstone are abundant along the outcrop area of the Hartselle (pl. 1) near the escarpment bordering the Little Mountain district (fig. 4). Blocks of sandstone in these collapse structures may be more than 100 feet wide and 20 feet thick. Collapse structures are present in an area about half a mile wide and extending about a mile along Flint Creek in secs. 26 and 35, T. 5 S., R. 4 W. Broken sandstone from the Hartselle is exposed in road cuts and outcrops, and shale that is probably from the Gasper is exposed in a road cut in the $SE\frac{1}{4}SW\frac{1}{4}$ sec. 26; the sandstone and the shale are at least 200 feet below their normal position. Test well 8-T in this area passed through 105 feet of unconsolidated deposits. Mr. C. H. Elliott, a driller, reported that in the $SE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$ sec. 35, a well drilled to a depth of 180 feet did not reach bedrock. In the Talucah area, and over an area of more than 6 square miles southward, the Gasper Formation locally has been completely removed by solution, and the Hartselle has collapsed onto the Ste. Genevieve Limestone.

The broken rock in collapse structures is more important as an area of recharge to the bedrock aquifers than as an aquifer itself. Wells in the collapsed Hartselle Sandstone generally yield supplies inadequate for domestic use except in an area half a mile wide in secs. 26 and 35, T. 5 S., R. 4 W. The high yield of test well 8-T is related more to recharge in an area of collapse than to its location on a structural low.

DEPTH AND AREAL LIMITS OF AQUIFERS

The depth of an aquifer below the land surface is generally a limiting factor in the development of ground water. Joints become tighter and more widely spaced because of fundamental physical properties of the crust of the earth, and the circulation of ground water decreases because of the change in the characteristics of the joints. The solvent action of the ground water decreases mainly because of the gradual reduction in the carbon dioxide content in the ground water. As the water moves downward from the water table through the carbonate rocks, chemical reaction removes the carbon dioxide, and the products of reaction are added to the ground water. At some indeterminate depth, the solvent action of the ground water in forming solution cavities theoretically ceases. All other factors being equal, the yield of ground water from a given formation in Morgan County decreases with an increase in depth below the land surface. The decrease in circulation and the decrease in the solvent action of ground water with depth are the principal reasons for the decrease in yield of the aquifers downdip from the area of outcrop.

On a regional scale, the water-bearing rocks of Morgan County probably react as five aquifers (fig. 13). These regional aquifers are separated by confining beds so that they are mainly recharged from precipitation in their areas of outcrop, and the yield of the aquifers decreases with an increase in distance to their outcrop in much the same way as the yield decreases with depth. The yield of an aquifer is probably reduced to a near minimum in Morgan County within 2 miles downdip from the outcrop of the top contact of the aquifer; however, the change is gradual and inconsistent so that no boundaries can be drawn.

TENNESSEE VALLEY DISTRICT

The water resources in the Tennessee Valley physiographic district (fig. 4) are obtained from the lowermost regional aquifer in Morgan County (fig. 13), and most of the available ground water is in cavities and fractures in the Tuscumbia Limestone and the Fort Payne Chert. The water resources of the individual geologic formations and the properties of the aquifers, such as the water-level fluctuations, are discussed in foregoing sections of this report. On a regional scale, however, the hydrology of the Tennessee Valley district reacts as a unit. The shale in the middle part of the Gasper Formation and the Hartselle Sandstone are the confining beds that separate the aquifer in the Tennessee Valley district from aquifers in the rest of the county.

Pumping tests, both by the U.S. Geological Survey and by private organizations, generally have been confined to the Tennessee Valley district. The results of the tests run on 10 wells drilled in the Tennessee Valley district are given in table 2. Pumping rates ranged from

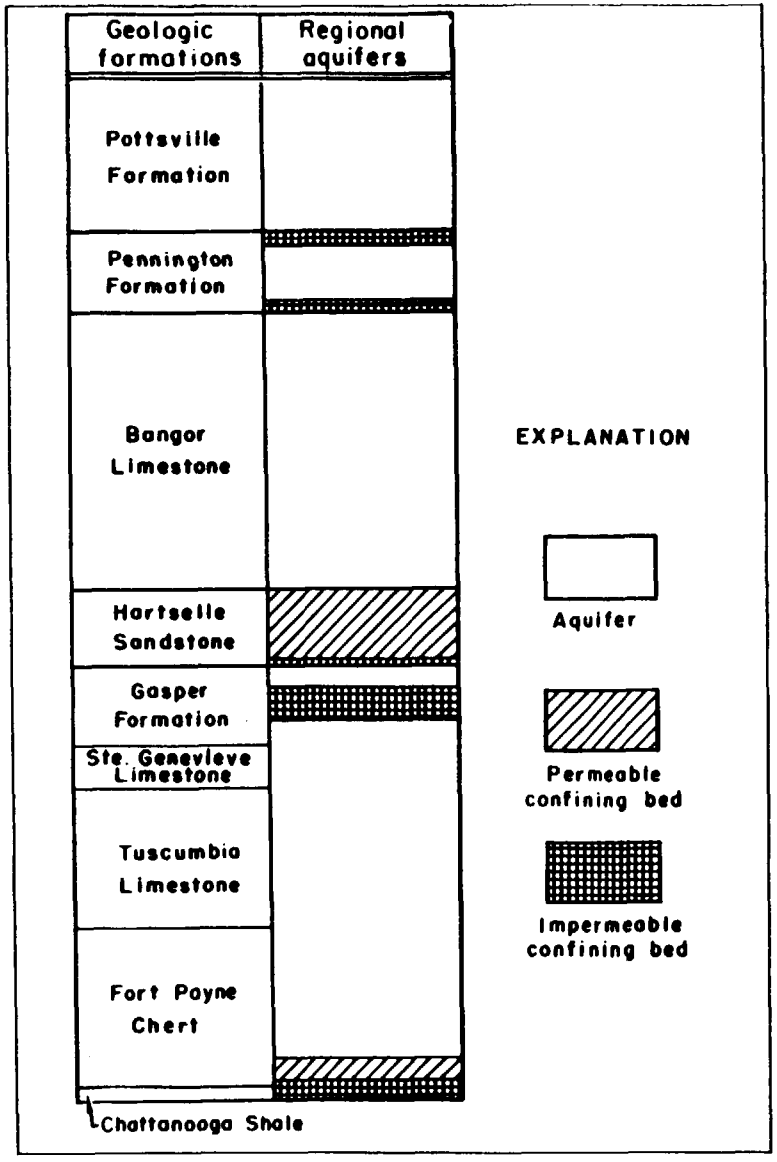


Figure 13.--Regional aquifers in the geologic formations.

55 to 350 gpm. Figures 14 and 15 show the drawdown and recovery of water levels during pumping tests run on wells 1-T and 8-T; locations of the wells are shown in figure 3. Pumping tests were not made on two of the wells, 6-T and 10-T, because water was developed chiefly at shallow depths in the Tuscumbia Limestone; however, bailing tests indicate that each well would yield about 30 gpm.

All test wells drilled as part of this investigation are finished in limestone. A quantitative evaluation of pumping-test data is difficult, since the geometry of the solution system is not known. However, the specific capacity (gallons per minute per foot of drawdown) determined from a pumping test is a guide to the potential yield from the aquifer at the well site. Specific capacity may be determined by pumping a well at a constant rate and measuring the drawdown of the water level in the well until the water level becomes reasonably constant. If the point of water entry into the well is known, for example the top of a water-producing cavity, the total yield of the well may be calculated by multiplying the specific capacity by the net available drawdown--that is, the distance in feet from the seasonally low water level to the point of water entry in the well. Similarly, specific capacity may be used to calculate the depth of pump setting necessary to allow a planned rate of pumping--the planned rate of pumping is divided by the specific capacity to give the pumping water level in feet below the seasonally low nonpumping water level.

Sanford and West (1960) investigated the use of step-drawdown pumping tests to evaluate the characteristics of a well finished in limestone. The pumping tests of wells 1-T and 8-T were run in three steps (table 2). Experience has shown that sometimes erroneously optimistic specific capacities are determined from wells pumped at low rates. Therefore, it is likely that the specific capacities of 10 and 14 gpm per foot of drawdown calculated for wells 1-T and 8-T are more accurate than the larger specific capacities calculated from lower rates of discharge of the same wells. If the wells were pumped at their maximum capacities, they would probably show lower specific capacities. During the pumping tests, the wells yielded an aggregate of 2.4 mgd (million gallons per day), which is probably as much water as is ever used in a day from all wells in Morgan County. The total yield of the wells during dry seasons probably would be more than 4 mgd.

Yields of the test wells can be considered typical for wells penetrating the Tuscumbia Limestone and Fort Payne Chert in the Tennessee Valley district. The greatest resource of ground water in Morgan County is in the Tennessee Valley district and is available for the increasing industrial demand.

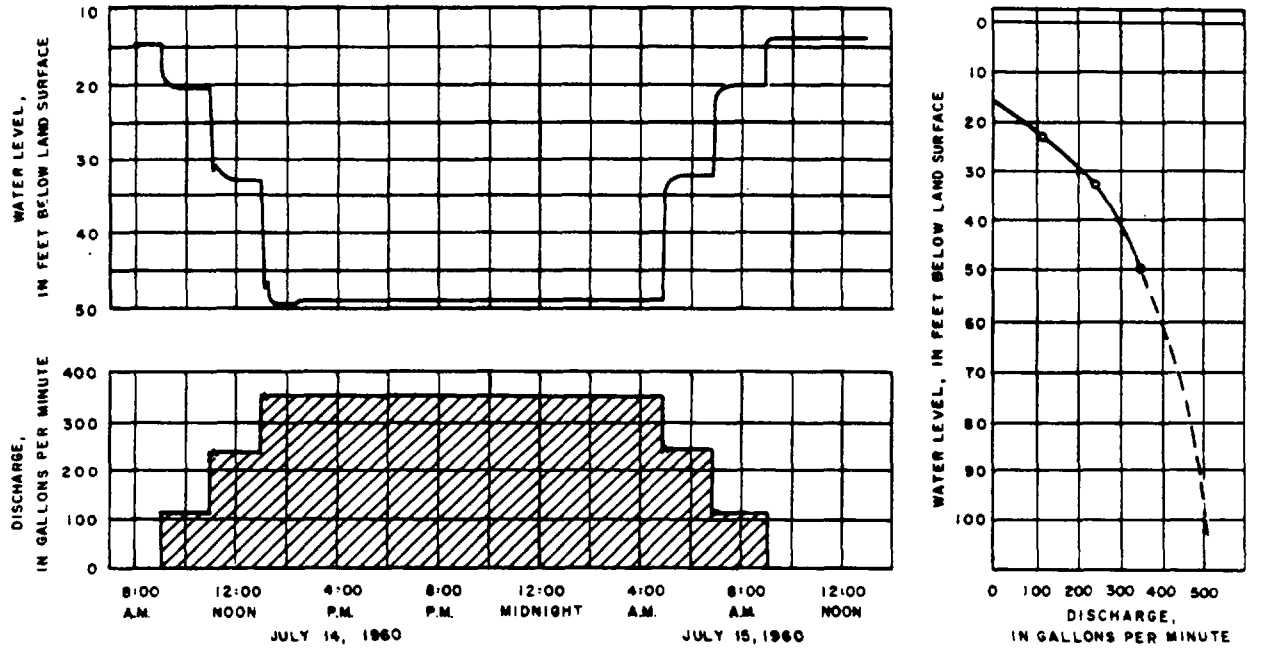


Figure 14.—Fluctuation of the water level in test well 1-T during pumping.

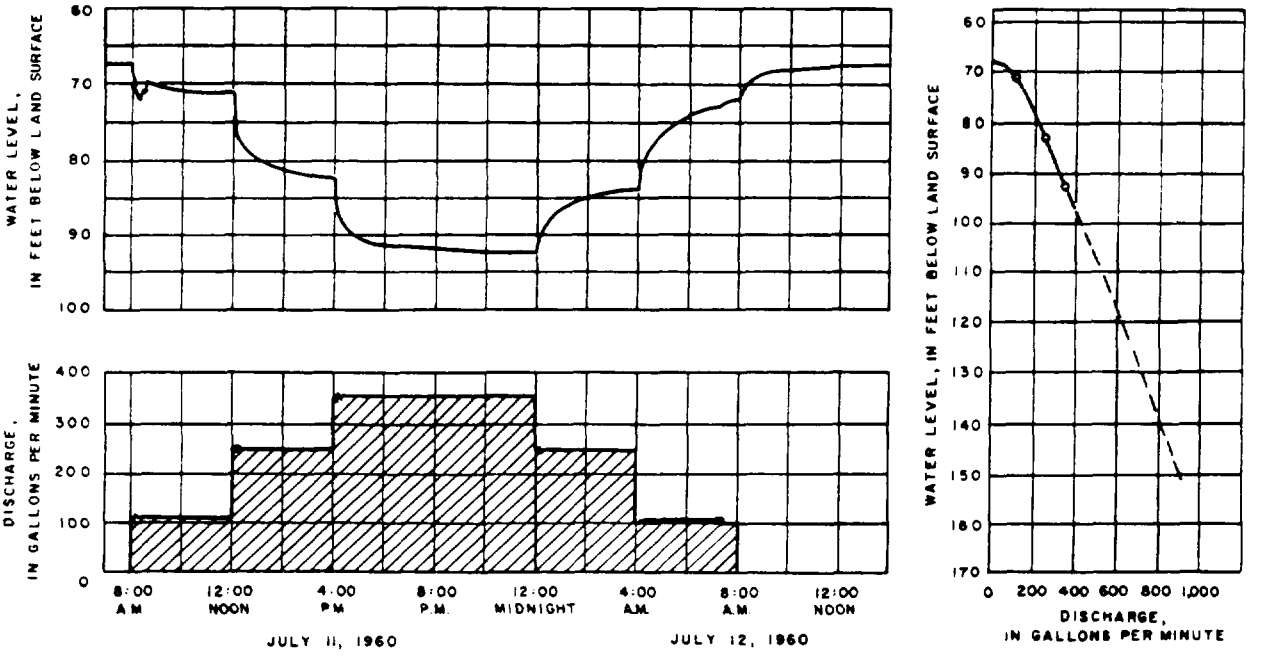


Figure 15.—Fluctuation of the water level in test well 8-T during pumping.

CHEMICAL QUALITY OF THE WATER

By James C. Warman

Water is known as the universal solvent. Water that falls as precipitation contains only small amounts of dissolved matter, but upon reaching the ground it begins to dissolve minerals from the soil and the rocks. The chemical quality of ground water depends upon the mineral composition of the soils and rocks with which the water comes in contact, the length of time the water is in contact with these minerals, and the solvent ability of the water. The principal factor controlling the solvent action of water is its content of carbon dioxide, which is dissolved from the atmosphere and from the soil.

As part of the investigation of the ground-water resources of Morgan County, studies were made to determine the chemical quality of the water. These studies included field determinations of hardness and chloride content of more than 2,000 samples and the collection and laboratory analysis of 47 samples. The chemical analyses do not indicate the sanitary condition of water; bacteriological examinations of water are not made by the U.S. Geological Survey. Therefore, in this report the quality of ground-water supplies is evaluated only on the basis of dissolved minerals.

Some of the terms used in this report are defined as follows:

Part per million (ppm) is a unit for expressing the concentration by weight of a chemical constituent, usually as milligrams of constituent per kilogram of solution, or as grams of constituent per million grams of solution.

Equivalent per million (epm) is a unit for expressing the concentration of a chemical constituent in terms of the equivalent weight of the electrically charged particles (ions) in solution. One epm of a positively charged ion (cation) will react with 1 epm of a negatively charged ion (anion). Parts per million are converted to equivalents per million by multiplying by the reciprocal of the equivalent weight (combining weight) of the ion. The appropriate conversion factors, based on 1954 atomic weights (after Rainwater and Thatcher, 1960, p. 80), are as follows:

Cation	Factor	Anion	Factor
Calcium (Ca^{++})	0.04990	Bicarbonate (HCO_3^-)	0.01639
Magnesium (Mg^{++})	.08224	Carbonate (CO_3^-)	.03333
Sodium (Na^+)	.04350	Sulfate (SO_4^{--})	.02082
Potassium (K^+)	.02558	Chloride (Cl^-)	.02820
		Fluoride (F^-)	.05263
		Nitrate (NO_3^-)	.01613

Specific conductance is a measure of the ability of water to conduct an electrical current and is expressed in micromhos per centimeter at 25° C. Specific conductance can be used to estimate the total mineralization of water. The dissolved-solids content, in parts per million, in most natural waters of moderate mineral content may be approximated by multiplying the specific conductance by 0.65 (Rainwater and Thatcher, 1960, p. 84).

Hydrogen-ion concentration (pH) is a measure of the relative acidity or alkalinity of water. A pH of 7.0 indicates that the water is neutral (hydrogen and hydroxyl ions in balance). A pH progressively less than 7.0 denotes increasing acidity, whereas a pH progressively greater than 7.0 denotes increasing alkalinity.

QUALITY STANDARDS

The chemical quality of water may limit or prohibit its use for domestic, municipal, industrial, or irrigation supplies. Standards for drinking water established by the U.S. Public Health Service (1962) to control the quality of water supplied by common carriers generally are quoted as limits for drinking water. According to these standards, supplies should not contain more than 0.3 ppm of iron, 250 ppm of chloride, 250 ppm of sulfate, 0.8 to 1.7 ppm of fluoride (depending on the annual average of maximum daily air temperatures), 45 ppm of nitrate, and 500 ppm of total dissolved solids.

FIELD DETERMINATIONS

TEMPERATURE

The temperature of ground water in a given locality is generally uniform, varying not more than a few degrees during the year. The temperature of ground water from moderate depths in Morgan County is about 63° F, the same as, or a little higher than, the mean annual air temperature. As more air-conditioning and heat-pump systems are

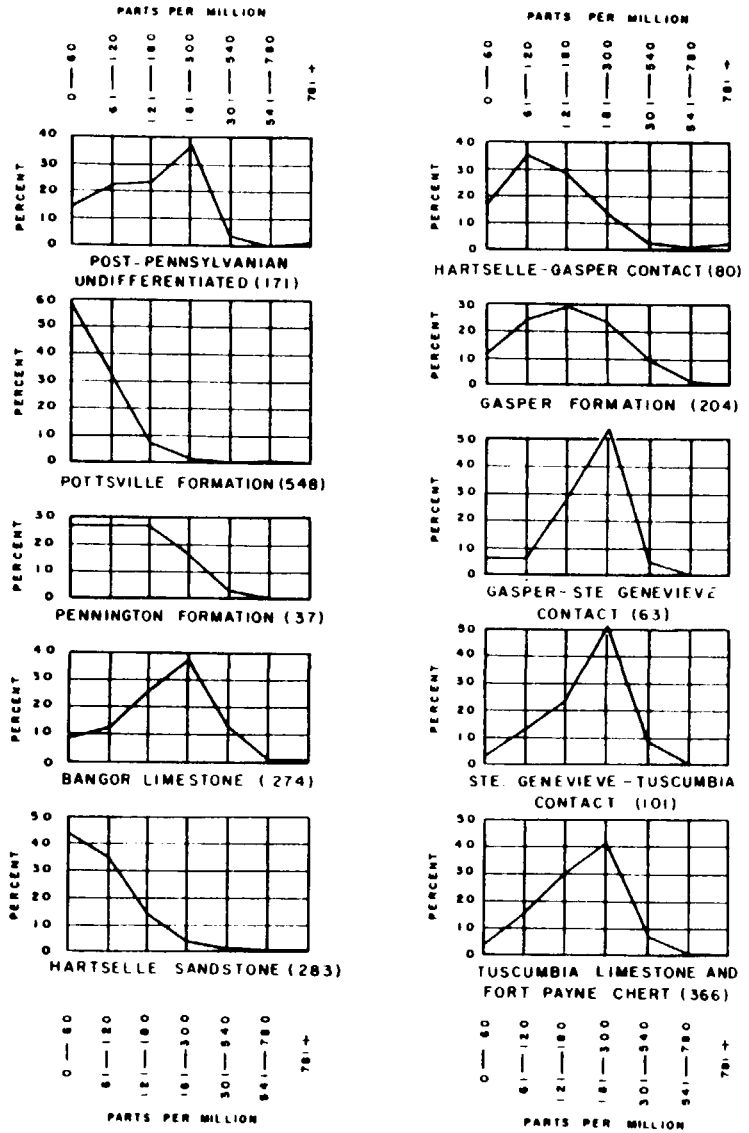
installed the temperature of ground water becomes increasingly important.

HARDNESS

Excessive hardness is the most common objectionable property of water. The greater the concentration of calcium and magnesium salts, the harder the water. Hardness causes scum in bathtubs, gray laundry, scale in hot-water tanks and lines, excessive soap consumption, and other problems; however, hard water is not generally believed to have harmful effects on man. Although specific limits of hardness cannot be set, the following are general criteria:

Hardness	Rating	Utility
0-60	Soft	Suitable for most uses without softening.
61-120	Moderately hard	Suitable for many uses except in some industrial applications.
121-180	Hard	Softening required for use in laundries and some other industries.
More than 180	Very hard	Softening required for most uses.

Hardness determinations were made in the field and laboratory for 2,127 samples of ground water from Morgan County (Dodson and Harris, 1961, table 2; table 4). Results of these determinations are summarized in figure 16. Ground water is generally very hard from the Fort Payne Chert and overlying aquifers up to and including the contact zone between the Ste. Genevieve Limestone and the Gasper Formation. The limestones of the Gasper yield water that is moderately hard to very hard; and a further decrease in hardness is illustrated in figure 16 for the Hartselle Sandstone-Gasper Formation contact zone, where the water generally is moderately hard. This decrease in hardness is attributed to the effect of the shale unit in the Gasper, which is the first persistent confining bed above the Chattanooga Shale. Thus, in the contact zone the soft water from the Hartselle mixes with and beneficiates the harder water from the upper limestone unit of the Gasper. Figure 16 illustrates the abrupt change from the soft water in the Hartselle to the very hard water in the Bangor Limestone. There were fewer hardness determinations made of water from the Pennington Formation; therefore, the graph is less well defined. However, the indi-



Number in parentheses is number of samples analyzed.

Figure 16.—Hardness of ground water in Morgan County.

cation is that water from the Pennington is generally soft to hard--appreciably softer than most water from the underlying Bangor. Water from the Pottsville Formation is generally soft--even more so than water from the Hartselle. As might be expected from its diverse sources, the post-Pennsylvanian undifferentiated deposits yield water of widely varied hardness.

CHLORIDE

Field determinations were made of the chloride content of 2,131 samples of ground water from Morgan County (table 4; Dodson and Harris, 1961, table 2). The chloride content is generally low; in 83 percent of the samples it was less than 32 ppm. Locally the chloride content may be high; for example, wells Q-18 and Q-45 had 1,670 and 3,600 ppm of chloride (Dodson and Harris, 1961, table 2).

LABORATORY DETERMINATIONS

Forty-seven chemical analyses were made by the U. S. Geological Survey's Quality of Water Branch Laboratory at Ocala, Fla., of water samples from 44 drilled wells, 1 dug well, and 2 springs in Morgan County. The sites sampled are shown on figure 17. Water analyses in this report are expressed in two forms: (1) each analysis is listed in table 4 in parts per million to show the weights of dissolved minerals present, and (2) median values for the different formations are shown in figure 18 in equivalents per million to show more clearly the chemical character of the water with reference to the dissociated ions. The analyses reported in table 4 and the medians shown for the different formations in figure 18 probably are typical of water from these formations in Morgan County.

Generally ground water in Morgan County is moderately mineralized and is of the calcium bicarbonate type (fig. 18). The specific conductance ranged from 83 to 1,370 micromhos (table 4), indicating a concentration of dissolved solids that ranged from about 50 to about 900 ppm. Water from the Pottsville Formation is of the calcium sodium bicarbonate type, and is only slightly mineralized and soft. As noted elsewhere in this section, the water from the Pottsville in many cases is of poor quality because of acidity and the presence of excessive iron. Water from the Gasper-Ste. Genevieve contact, the Hartselle-Gasper contact, and the Hartselle Sandstone is more mineralized than water from the other formations and is of the sodium bicarbonate type.

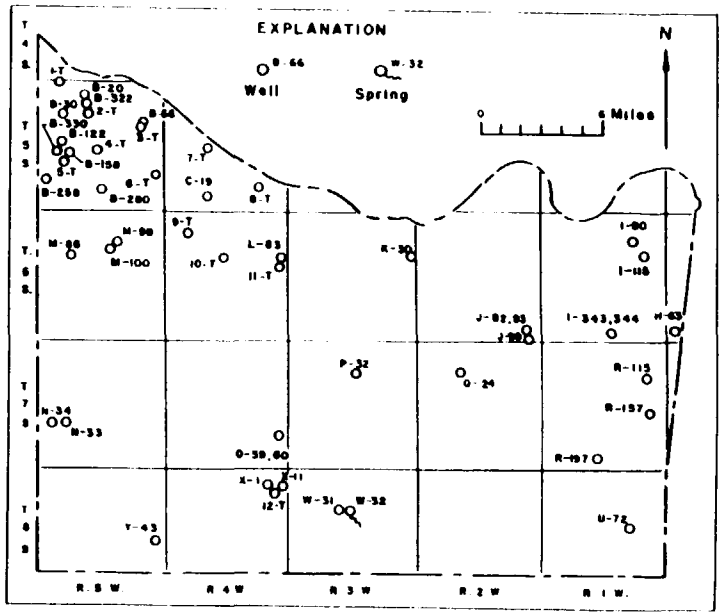


Figure 17.—Location of wells and springs sampled for chemical analysis.

SULFATE

Sulfur in ground water is reported in the laboratory analyses as sulfate. The sulfate content is appreciably greater in water from the Gasper-Ste. Genevieve contact, the Gasper Formation, and the Hartselle Sandstone (fig. 18). The sulfur is present in some areas of Morgan County as hydrogen sulfide, which generally occurs in highly mineralized water. Such water creates acute problems in several areas of the county. The largest area centers near the intersection of Alabama Highways 36 and 67 and extends about 4 miles east and west from the intersection. Other areas are in the vicinity of Stroups Crossroads, Massey, Lacon, Falkville, Plainview School, Brooksville, and Valhermosa Springs. Along a line extending southeastward from Trinity, a boundary separates wells yielding water containing hydrogen sulfide and wells yielding water free of hydrogen sulfide. The boundary is sharp and well defined along Alabama Highway 24 about 900 feet west of the crossing by County Highway 1, about 500 feet east of the intersection of County Highways 1 and 61, along the paved county road in the SW¼SE¼NE¼ sec. 10, T. 6 S., R. 5 W., and along the road west of Basham. In an area extending 1 to 4 miles southwest of this line, water from wells

Table 4.—*Chemical analyses of water from wells and springs, Morgan County, Ala.*

Well or spring: Numbers with "T" suffix denote U.S. Geological Survey test wells; other numbers correspond to those used by Dodson and Harris (1961, table 2).

Water-bearing formation: Mfp, Fort Payne Chert; Mt, Tuscumbia Limestone; Ms, Ste. Genevieve Limestone; Mg, Gasper Formation; Mh, Hartselle Sandstone; Mb, Bangor Limestone; Mp, Pennington Formation; PPv, Pottsville Formation; pP, post-Pennsylvanian undifferentiated--includes all unconsolidated material covering the bedrock. Hyphenated double symbols, such as Mt-Mfp, indicate the well produces water at or near the contact of two formations.

Well or spring	Date of collection	Water-bearing formation	Temperature (° F)	Iron (Fe)[1]	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	Specific conductance (micromhos at 25° C)	pH
				Parts per million														
U.S. Public Health Service drinking water standards				0.3							250	250	0.6 to 1.7	45			770[2]	
1-T	7-15-60	Mfp	62	.00	29	4.7	81	...	220	0	2.8	54	3.0	1.9	92	0	517	7.9
2-T	11-16-60	Mfp	62	.00	45	9.1	19	...	202	0	3.6	10	1.9	.0	150	0	355	8.0
3-T	2-21-58	Mfp	62	.00	27	8.4	9.2	...	135	0	7.0	3.0	.7	1.4	102	0	224	7.5
4-T	2-28-61	Mt	63	.02	33	.4	4.2	0.4	103	0	.8	5.0	.3	1.3	84	0	186	7.2
5-T	12-23-59	Mt-Mfp	62	.00	74	5.7	53	...	286	0	21	67	.8	.8	208	0	680	8.1
6-T	6-13-61	Mt	..	.00	29	22	19	1.4	226	0	6.8	4.0	3.0	.0	163	0	376	7.7
7-T	7-20-59	Mfp	64	.01	4.8	6.3	280	...	430	0	7.6	147	13	.0	38	0	1,140	8.0
8-T	7-12-60	Mfp	62	.00	48	4.4	1.9	...	186	0	2.4	2.0	.2	.3	138	2	259	7.9
9-T	11-24-59	Mt-Mfp	64	.00	62	1.8	17	...	192	0	26	10	.8	1.1	162	4	381	7.7
10-T	6-13-61	Mt	62	.01	29	3.3	1.7	.4	105	0	.3	3.0	.2	.0	86	0	169	7.4
11-T	5- 3-61	Mt-Mfp	62	.01	53	8.8	42	2.0	284	0	7.6	10	2.7	.1	168	0	477	7.5
12-T	1-24-61	Mb	62	.00	1.8	.5	250	...	408	28	112	25	3.3	.0	6	0	1,030	8.8
B-20	5-14-58	Mt	63	.01	38	2.4	1.5	...	126	0	1.0	.0	.1	4.7	105	2	210	7.6
B-30	5-14-58	Mt	62	.00	20	1.7	2.9	...	58	0	.2	7.0	.0	9.3	57	10	134	7.3
B-68	2-21-58	Mt	62	.05	30	8.0	8.1	...	140	0	8.5	3.0	.6	1.3	108	0	233	7.5
B-122	5-12-58	Mt	63	.01	74	4.7	9.7	...	214	0	8.5	18	.0	19	204	28	441	7.6
B-158	4-29-60	Mt	62	.00	51	6.6	24	...	104	0	.8	42	.1	78	154	69	442	7.7
B-258	5-14-58	Mg-Ms	65	.00	1.2	1.0	245	...	444	0	135	5.0	9.8	1.0	7	0	984	8.1
B-280	5-14-58	Mt	63	.00	79	15	4.8	...	302	0	8.5	8.0	.8	2.8	258	11	493	7.9
B-322	9-21-60	Mt	62	.00	49	4.3	1.0	...	164	0	.4	2.0	.0	2.1	140	6	261	7.7
B-330	5-31-61	Mt	62	.01	69	1.0	2.6	.6	207	0	5.6	4.0	.2	.2	176	6	338	7.5
C-19	5-15-58	pP	65	.01	40	.5	2.2	...	123	0	2.0	3.0	.0	1.9	102	1	211	7.4
H-63	5-14-58	PPv	62	.00	2.4	1.2	11	...	8	0	0	10	.0	17	11	4	83	6.5
J-90	4-29-60	Mg-Ms	65	.00	67	2.2	2.2	...	206	0	4.8	4.0	.0	3.0	176	7	343	8.1
J-115	4- 6-59	Mg	62	.00[3]	85	17	11	...	334	0	86	8.0	1.3	6.5	282	8	701	7.8
J-343, 344	4-29-60	PPv	65	3.6[3]	5.6	3.4	7.0	...	13	0	26	3.5	.1	.0	28	18	104	6.8
J-92, 93	4- 6-59	Mg	61	.00	42	1.2	2.3	...	126	0	4.4	4.0	.0	3.9	110	6	227	7.4
J-99	4- 9-59	Mh	62	.00	52	18	52	...	212	0	138	6.6	.8	.7	204	30	623	7.6
K-30	4- 6-59	pP	63	.00	95	2.6	7.3	...	256	0	3.2	22	.1	21	250	40	522	7.7
L-83	4- 6-59	Mt	61	.01	40	21	25	...	276	0	5.6	16	3.0	.4	186	0	454	7.8
M-86	5-14-58	Mg-Ms	64	.01	42	7.5	103	...	310	0	58	37	.8	.2	136	0	691	7.4
M-98	4- 9-59	Ms-Mt	62	.00	84	1.6	2.2	...	241	0	13	3.5	.1	.0	216	18	401	7.8
M-100	4- 9-59	Ms-Mt	..	.00	69	23	12	...	326	0	22	6.0	1.5	.4	266	0	538	8.0
N-33	5-15-58	Mb	64	.02	6.4	4.6	348	...	842	0	2.0	50	3.8	.1	35	0	1,370	8.3
N-34	4- 6-59	Mb	63	.00	52	2.8	3.1	...	162	0	3.4	5.0	.1	5.1	141	8	280	7.7
O-59, 60	4- 6-59	Mh-Mg	61	.00	12	1.0	8.0	...	51	0	7.2	8.5	.1	11	34	0	146	6.8
P-32	4-29-60	Mh-Mg	64	.00	.8	.7	224	...	508	12	19	7.0	4.0	.0	5	0	856	8.5
Q-24	5-12-58	Mh-Mg	66	.00	9.6	4.4	118	...	324	0	13	10	2.2	.1	42	0	552	8.1
R-115	4-29-60	PPv	63	1.40[3]	41	2.3	2.9	...	130	0	11	.0	.1	.1	112	6	229	7.9
R-157	4- 6-59	Mb	..	.00	25	1.1	1.9	...	81	0	3.8	3.0	.1	.5	67	0	144	7.6
R-197	4-29-60	Mp	64	.00	26	5.6	12	...	77	0	45	14	.1	3.8	88	25	280	7.3
U-72	5- 2-60	PPv	64	.33[3]	16	5.1	10	...	92	0	5.2	3.0	.1	.0	61	0	164	7.5
W-31	2- 6-61	Mp	62	.00	60	25	50	...	392	0	21	12	1.3	.1	252	0	650	8.2
W-32	4- 6-59	Mp	60	.00	33	.4	1.5	...	98	0	2.8	2.3	.0	2.8	84	4	173	7.6
X-1	5-14-58	Mh	63	.01	2.8	2.2	140	...	354	0	1.2	16	1.2	.0	16	0	576	7.9
X-11	5-15-58	Mb	65	.01	93	6.8	18	...	264	0	44	18	.1	24	260	44	580	7.9
Y-43	4-29-60	Mb	64	.00	59	1.7	1.8	...	150	0	.4	1.0	.1	1.1	154	0	302	8.1

1/ In solution at time of analysis unless otherwise noted.
2/ Calculated.
3/ Total iron.

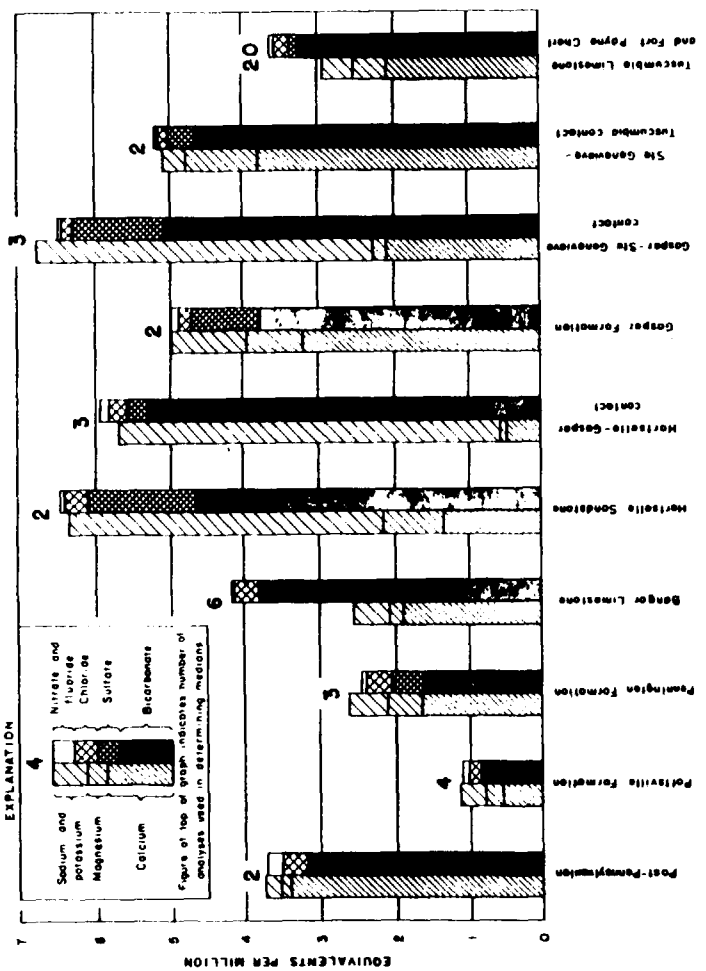


Figure 18.—Median values, by aquifers, of dissolved constituents in ground water in Morgan County.

drilled below the valley floor generally contains hydrogen sulfide. The boundary is less distinct southeast of Basham.

CARBON DIOXIDE

Water from well N-33 contains an extraordinary quantity of carbon dioxide(?), and upon release of pressure the gas is given off and a white mineral precipitates. The water does not contain hydrogen sulfide; neither do other wells in the vicinity.

FLUORIDE

Most fluoride minerals are only slightly soluble and are present in most natural waters in small amounts. The literature contains many references to the beneficial effect of optimum amounts of fluoride in drinking water as an aid in the reduction of tooth decay in children and to the detrimental effect of excessive amounts of fluoride in the mottling of children's teeth. The U.S. Public Health Service (1962) states that the optimum concentrations of fluoride are between 0.7 and 1.2 ppm, depending upon the annual average of maximum daily air temperatures; presence of fluoride in average concentrations greater than two times the optimum values constitutes grounds for rejection of the supply.

Figure 19 shows the location of 57 wells and springs from which water samples were collected for fluoride analysis and the fluoride content of the water in parts per million. Several wells produced water having excessive amounts of fluoride. There is no correlation recognized between the concentration of fluoride and the geologic environment in Morgan County.

NITRATE

Nitrate concentrations in unpolluted water seldom exceed 10 ppm. Nitrate and chloride are major components of animal wastes and fertilizers, and the occurrence of abnormally high concentrations of both constituents suggests possible pollution of the water. Nitrates in large amounts interfere with the dyeing of some textiles. Hem (1959, p. 239) cites studies by four different workers who link nitrate in domestic water supplies to cyanosis in infants. Waters should be considered hazardous for infants if concentrations given in the usual "sanitary" analysis exceed 10 ppm nitrate *expressed in terms of nitrogen (N)* Analyses made by the Geological Survey report nitrate in parts per million of NO_3^-, and as NO_3^- the concentration should not exceed 45 ppm as recommended by the U.S. Public Health Service (1962). Except in water from well B-158, nitrate concentrations listed in table 4 are less than 25 ppm.

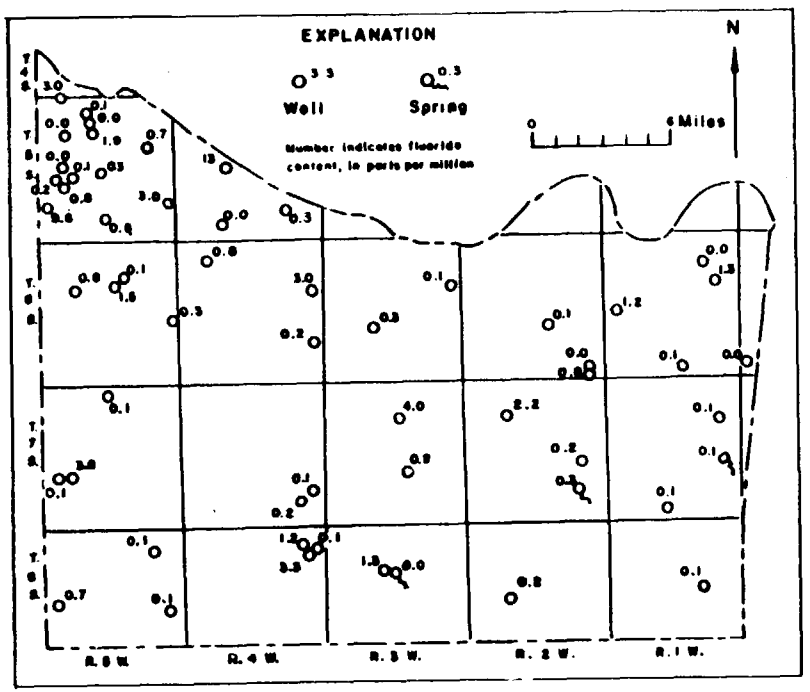


Figure 19.—Fluoride in ground water in Morgan County.

Anything in solution in nonionized form is not normally reported in terms of epm; therefore, for silica, iron, and certain other constituents, concentrations are generally expressed in parts per million or other weight-based units.

SILICA

The silica content of water from six wells tapping the Tuscumbia Limestone and (or) the Fort Payne Chert ranged from 2.3 to 11 ppm, well within generally accepted limits for most uses.

IRON

One of the most annoying quality-of-water problems is the presence of excessive iron. Water from many wells contains dissolved iron, which causes "red water." Manganese has a similar effect; however,

it is much less abundant in nature than iron and is generally present in lower concentrations. Some wells contain iron bacteria, which are living organisms that feed and multiply on metal piping and pump surfaces. These iron bacteria may be easily killed by chlorination and removed by filtration. The U.S. Public Health Service (1962) recommends that in drinking and cooking water on carriers subject to Federal quarantine regulations iron should not exceed 0.3 ppm and manganese should not exceed 0.05 ppm. These limits are not based on toxicity but on esthetic and taste considerations. Iron can produce brown stains on plumbing fixtures and laundry; produce an objectionable flavor and appearance in tea, coffee, and other beverages; and, where the iron is insoluble, form sludge and deposits in pipelines and water heater coils. Industry's tolerance for iron varies, but concentrations exceeding 1 to 2 ppm generally are not satisfactory. For many process waters, iron concentrations exceeding 0.01 or 0.02 ppm result in a product of inferior quality. Iron-bearing waters may be successfully treated with polyphosphate, manganese greensand filters, zeolite filters, or chlorination or aeration followed by filtration. Selection of the correct method of treatment depends upon the type and amount of iron present in the water.

Water from the limestone aquifers in Morgan County generally contains little iron, but water from the sandstone aquifers, the Hartselle Sandstone and Pottsville Formation, ordinarily contains iron that in many cases is in objectionable amounts. Most iron determinations in table 4 were made of the iron in solution at the time of analysis. Because iron is generally a problem in water from the Pottsville, three of the four samples from that formation were analyzed for total iron. The results are:

H-63	0.00 ppm iron in solution
I-343, 344	3.6 ppm total iron
R-115	1.4 ppm total iron
U-72	.33 ppm total iron

Each of the total iron determinations exceeds the standard of 0.3 ppm established by the U.S. Public Health Service (1962).

pH

The pH of potable water is not pathologically significant; however, the pH of a water indicates its chemical activity toward metal surfaces. The pH of naturally occurring soft water is usually lower than that of hard water. Low pH in well or spring water is ordinarily caused by free carbon dioxide, which forms carbonic acid when dissolved in water. Water that has a low pH is corrosive to iron and galvanized piping, tanks, and plumbing equipment, and, to a lesser extent, copper. The

water may become rusty red, blue, or green. As the pH increases, the corrosive activity of the water normally decreases; however, excessively alkaline waters are corrosive to some metals, particularly zinc. The pH value also has a marked effect upon the efficiency of chlorine treatments. A decrease in the pH (and an increase in the temperature) will accelerate both the rate and extent of chlorine reactions (Am. Water Works Assoc., 1950, p. 207). Other chemical treatments of water are also influenced by pH although the effect is less than in chlorination. Water having extreme pH values generally cannot be used by industry.

Acidic waters are commonly treated with either a neutralizing filter (for example, lime or soda ash) or a polyphosphate solution feeder. The neutralizing filter contributes additional hardness to the water; for this and other reasons, a solution feeder is generally more satisfactory.

Of the 47 samples analyzed from Morgan County, the pH ranged from 6.5 to 8.8 (table 4). Water from the Pottsville Formation in many cases is acidic.

SUMMARY

The chief aquifers in Morgan County are the Tuscumbia Limestone and Fort Payne Chert of Mississippian age. Ground water in these formations occurs mainly in solution cavities and fractures. The maximum yield from wells penetrating solution cavities in the Tuscumbia Limestone and Fort Payne Chert, determined from the results of test pumping, is about 1,100 gpm. Supplies of ground water in the county were adequate for all needs in 1961, except in a few local areas where domestic supplies were inadequate. Many times as much ground water is available as is being used. The largest supplies of ground water available for future industrial development are in the area within the Tennessee Valley physiographic district. Large supplies of ground water are available for future development also in parts of the Moulton Valley physiographic district.

The chemical quality of the water from wells and springs in Morgan County is satisfactory for most ordinary purposes, although hydrogen sulfide and the excessive iron content are problems in a few small areas.

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BASIC DATA

Table 5.—*Sample logs of test wells in Morgan County, Ala.*

	Thickness (feet)	Depth (feet)
Test Well 1-T		
NE¼NW¼ sec. 5, T. 5 S., R. 5 W.		
Soil, red	45	45
Limestone boulders and chert rubble, yellow	38	83
Fort Payne Chert:		
Upper unit:		
Limestone, light-olive-gray, very fine to very coarse grained, partly oolitic	11	94
Limestone, light-olive-gray, very fine grained, slightly dolomitic	4	98
Dolomite, light-olive-gray, very fine grained, very calcareous, petroliferous	4	102
Chert, light-bluish-gray, weathered	3	105
Limestone, light-olive-gray, very fine grained; contains coarse-grained calcite fossil detritus, dolomitic; very light bluish gray chert, mostly near bottom of unit	9	114
Limestone, yellowish-gray, very fine to very coarse grained; very light to light-bluish-gray chert about 1 foot thick near middle of unit	17	131
Limestone, light-olive-gray, very fine grained; contains coarse-grained calcite fossil detritus, dolomitic; very light bluish gray chert	4	135
Middle unit:		
Chert, bluish-white to bluish-gray; light-olive-gray very fine grained partly silicified petroliferous dolomite; light-olive-gray to yellowish-gray very fine grained limestone; medium-olive-gray shale, mostly at top of unit	38	173

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 1-T--Continued		
Fort Payne Chert--Continued		
Middle unit--Continued		
Dolomite, greenish-gray, very fine grained, mostly silicified; greenish-gray chert, composed of completely silicified dolomite; some dark-greenish-gray shale; some bluish-gray chert	22	195
Lower unit:		
Dolomite, greenish-gray, very fine grained, partly silicified; some dark-greenish-gray shale; a few fragments of bluish-gray chert	39	234
Dolomite, pale-green to light-greenish-gray and greenish-gray, very fine grained; greenish-white calcite crinoid stems and stem plates; dark-greenish-gray shale	30	264
Chert, bluish-gray	3	267
Dolomite, pale-green to light-greenish-gray, very fine grained	3	270
Shale, light-greenish-gray, probably the Maury Formation	1	271
Chattanooga Shale:		
Shale, brownish-gray and dark-brownish-gray, pyritic; light-greenish-gray very fine to medium grained poorly sorted quartzose calcareous sandstone at top and bottom of formation	5	276
Test Well 2-T		
NW¼SE¼ sec. 9, T. 5 S., R. 5 W.		
Soil, red and yellow, chert rubble	48	48

Table 5.—*Sample logs of test wells in Morgan County, Ala* —Continued

	Thickness (feet)	Depth (feet)
Test Well 2-T--Continued		
Tuscumbia Limestone:		
Limestone, very light olive gray, very fine to very coarse grained, fossil detritus, some oolites	12	60
Limestone, yellowish-gray, fine- to coarse-grained, fossil detritus, partly oolitic	29	89
Limestone, light-greenish-gray, very fine to coarse-grained, mostly fine-grained; very light bluish gray chert	26	115
Limestone, light-olive-gray, very fine to coarse-grained, mostly fine-grained; medium-bluish-gray chert	23	138
Fort Payne Chert:		
Upper unit:		
Limestone, very light olive gray, very fine grained, dolomitic; very light olive gray very fine grained calcareous dolomite; very light bluish gray to medium-bluish-gray chert, replaces dolomite	8	146
Limestone, light-olive-gray and yellowish-gray to white, very fine to very coarse grained, fossil detritus; some light-olive-gray chert	27	173
Limestone, very light olive gray, very fine grained, dolomitic; bluish-gray and light-olive-gray to yellowish-gray chert, completely silicified limestone	8	181
Middle unit:		
Limestone, yellowish-white to yellowish-gray, very fine grained, contains very coarse grained fossil detritus; yellowish-gray to light-olive-gray chert, completely silicified limestone; some light-bluish-gray chert	27	208

Table 5.—*Sample logs of test wells in Morgan County, Ala* —Continued

	Thickness (feet)	Depth (feet)
Test Well 2-T--Continued		
Fort Payne Chert--Continued		
Middle unit--Continued		
Chert, bluish-white to medium bluish-gray; yellowish-gray to light-olive-gray chert, completely silicified limestone	4	212
Cavity; mud, sand, and rubble about a foot thick at bottom	5	217
Limestone, light-olive-gray, fine-grained	3	220
Lower unit:		
Dolomite, yellowish-gray and light-olive-gray to medium-greenish-gray, very fine grained, partly calcareous; bluish-white to medium-bluish-gray chert; very light brownish gray to brownish-gray and yellowish-gray to olive-gray chert; light-greenish-gray very fine grained dolomitic limestone	24	244
Dolomite, light-greenish-gray to medium-greenish-gray, very fine grained and very finely crystalline, partly calcareous, partly silicified; very light brownish gray to brownish-gray chert, completely silicified dolomite; bluish-white to light-bluish-white chert; some dark-gray shale	40	284
Dolomite, light-greenish-gray to medium-greenish-gray, very fine grained to finely crystalline, partly calcareous; light-greenish-gray chert, completely silicified dolomite; some dark-gray shale	21	305
Dolomite, light-greenish-gray to greenish-gray, very fine grained, partly silicified; yellowish-gray calcite crinoid stems and stem plates; light-greenish-gray chert, completely silicified dolomite; some light-olive-gray chert and brownish-gray shale	14	319

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 2-T--Continued		
Fort Payne Chert--Continued		
Lower unit--Continued		
Dolomite, grayish-green to light-greenish-gray, very fine grained and very finely crystalline, about 50 percent silicified; some white to grayish-green and light-greenish-gray chert, completely silicified dolomite; greenish-gray and brownish-gray partly silicified shale	19	338
Limestone, pinkish-gray to very light brownish gray, medium-grained; contains abundant pinkish-white calcite crinoid stems and bluish-white to light-bluish-gray silicified crinoid stems; light-greenish-gray shale, less than half a foot thick, probably the Maury Formation.	5	343
Chattanooga Shale:		
Shale, light-brownish-gray to brownish-black, pyritic; yellowish-white to olive-gray very fine to coarse-grained, mostly fine-grained, poorly sorted calcareous quartzose sandstone at top and bottom of formation. Formation contains conodonts.	10	353
Test Well 3-T		
NE¼NE¼ sec. 14, T. 5 S., R. 5 W.		
Soil, red.	10	10
Chert rubble, brown and yellow	27	37

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 3-T--Continued		
Fort Payne Chert:		
Upper unit:		
Limestone, very light olive gray, very fine to medium-grained, partly dolomitic; some light-bluish-gray chert.	67	104
Limestone, very light olive gray, very fine to coarse-grained; very light bluish gray chert	17	121
Middle unit:		
Dolomite, greenish-gray, very fine grained, partly silicified; bluish-white to very light bluish gray chert.	16	137
Dolomite, greenish-gray, very fine grained, partly silicified; very light bluish gray to bluish-gray chert	18	155
Lower unit:		
Dolomite, greenish-gray, very fine grained; light-bluish-gray to bluish-gray chert; unit contains abundant very light greenish gray calcite crinoid stem plates	85	240
Dolomite, greenish-gray, very fine grained; very light greenish gray calcite crinoid stem plates; light-greenish-gray shale, less than half a foot thick, probably the Maury Formation.	6	246
Chattanooga Shale:		
Shale, brownish-gray to dark-brownish-gray, pyritic; light-greenish-gray very fine to medium-grained poorly sorted calcareous quartzose sandstone at top and bottom of formation.	4	250

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 4-T		
NE¼NE¼ sec. 21, T. 5 S., R. 5 W.		
Soil, red	15	15
Chert rubble, yellow	24	39
Tuscumbia Limestone:		
Limestone, very light olive gray, fine- to coarse-grained, partly oolitic; some light-bluish-gray to medium-bluish-gray chert	18	57
Limestone, very light olive gray to light-olive-gray, fine- to coarse-grained, oolitic	29	86
Limestone, very light olive gray to light-olive-gray, very fine grained to finely crystalline, in part very coarse grained; some light-bluish-gray chert	10	96
Limestone, very light olive gray to light-olive-gray, in part medium-olive-gray, very fine to coarse-grained, in part very coarse grained and oolitic	22	118
Fort Payne Chert:		
Upper unit:		
Dolomite, very light olive gray, very fine grained, calcareous; some bluish-gray chert	3	121
Limestone, very light olive gray to light-olive-gray, very fine to coarse-grained, in part oolitic and silicified; bluish-white to bluish-gray chert; very light olive gray to light-olive-gray chert; some very light olive gray calcareous shale	36	157
Limestone, very light olive gray, very fine to very coarse grained; bluish-white to light-bluish-gray chert; very light olive gray chert, completely silicified limestone; some light-olive-gray to olive-gray shale	48	205

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 4-T--Continued		
Fort Payne Chert--Continued		
Upper unit--Continued		
Limestone, light-brownish-gray, very fine to coarse-grained; light-bluish-gray to bluish-gray chert; light-brownish-gray chert, completely silicified limestone	5	210
Limestone, greenish-gray, medium- to coarse-grained; some bluish-gray and greenish-gray chert, completely silicified limestone; some light-greenish-gray and brownish-gray shale	10	220
Middle unit:		
Dolomite, light-olive-gray to olive-gray, very fine grained, calcareous to very calcareous, partly petroliferous; light-bluish-gray chert; light-olive-gray chert, completely silicified dolomite and limestone; light-olive-gray very fine grained dolomitic limestone; some greenish-gray and olive-gray shale	26	246
Chert, light-olive-gray to medium-olive-gray, completely silicified dolomite; light-olive-gray to olive-gray and greenish-gray very fine grained dolomite; bluish-gray chert; some olive-gray shale	21	267
Lower unit:		
Dolomite, light-greenish-gray to dark-greenish-gray, very fine grained, partly silicified, argillaceous near bottom of unit; some light-olive-gray and greenish-gray chert; bluish-gray chert; some greenish-gray to dark-greenish-gray and olive-gray shale; light-greenish-gray shale about a foot thick, probably the Maury Formation	62	329

Table 5.—*Sample logs of test wells in Morgan County, Ala* —Continued

	Thickness (feet)	Depth (feet)
Test Well 4-T--Continued		
Chattanooga Shale:		
Shale, dark-brownish-gray, pyritic; light-greenish-gray to greenish-gray very fine to coarse-grained poorly sorted quartzose dolomitic and calcareous sandstone at top and bottom of formation	10	339
Test Well 5-T		
SE¼SW¼ sec. 20, T. 5 S., R. 5 W.		
Soil, red and yellow; chert rubble	16	16
Chert rubble and limestone boulders, yellow.	17	33
Tuscumbia Limestone:		
Limestone, yellowish-white, fine- to coarse-grained	5	38
Limestone, yellowish-white to very light olive gray, very fine grained; bluish-white to medium-bluish-gray and yellowish-white to very light olive gray chert, in part silicified limestone	17	55
Limestone, very light olive gray to light-olive-gray, fine- to coarse-grained, in part oolitic; bluish-white to medium-bluish-gray and yellowish-white to very light olive gray chert, in part silicified limestone	31	86
Limestone, very light olive gray to olive-gray, coarse-grained, in part fine-grained; bluish-white to medium-bluish-gray and yellowish-white to very light olive gray chert, in part silicified limestone	46	132
Limestone, very light olive gray to olive-gray, very fine to coarse-grained; light-bluish-gray, in part very light olive gray chert	58	190

Table 5.—*Sample logs of test wells in Morgan County, Ala* —Continued

	Thickness (feet)	Depth (feet)
Test Well 5-T--Continued		
Fort Payne Chert:		
Upper unit:		
Limestone, light-greenish-gray and very light olive gray, very fine to medium-grained, dolomitic, in part silicified; very light bluish gray to medium-bluish-gray chert; light-olive-gray shale	27	217
Limestone, very light olive gray, very fine grained, partly very finely crystalline, dolomitic; bluish-gray chert	7	224
Dolomite, very light olive gray, very fine grained, in part very finely crystalline and silicified; yellowish-gray chert, completely silicified dolomite; bluish-gray chert	9	233
Limestone, yellowish-gray to olive-gray, very fine to very coarse grained, dolomitic; light-olive-gray chert, completely silicified limestone; some bluish-gray chert and olive-gray shale	62	295
Middle unit:		
Limestone, yellowish-gray to olive-gray, fine- to coarse-grained; very light bluish gray to bluish-gray chert; yellowish-gray to light-olive-gray chert; some olive-gray shale	14	309
Chert, yellowish-gray to light-olive-gray, completely silicified limestone and dolomite; very light bluish gray to light-bluish-gray chert; yellowish-gray to light-olive-gray very fine grained dolomite; some yellowish-gray to light-olive-gray very fine grained limestone and olive-gray shale	43	352

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 5-T--Continued		
Fort Payne Chert--Continued		
Lower unit:		
Chert, greenish-gray, completely silicified dolomite; medium-greenish-gray to dark-greenish-gray very fine grained silicified dolomite; bluish-gray chert; some brownish-gray shale	25	377
Dolomite, greenish-gray to dark-greenish-gray, very fine grained, partly silicified; some greenish-gray chert, completely silicified dolomite; some bluish-gray chert at top of unit and medium-light-gray and brownish-gray shale; pale-yellowish-gray shale about a foot thick, probably the Maury Formation	44	421
Chattanooga Shale:		
Sandstone, greenish-gray, light-olive-gray, brownish-gray, very fine to coarse-grained, poorly sorted, quartzose, calcareous, in part dolomitic, pyritic, at top and bottom of formation; brownish-gray to brownish-black pyritic shale; greenish-gray to dark-greenish-gray, light-olive-gray to olive-gray sandy silty shale, mostly highly silicified and somewhat fractured, pyrite in the fractures; some medium-light-gray calcareous silty shale	14	435
Test Well 6-T		
NW¼NE¼ sec. 25, T. 5 S., R. 5 W.		
Soil, red and yellow; chert rubble	20	20

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 6-T--Continued		
Tuscumbia Limestone:		
Limestone, light-olive-gray, fine to very coarse grained, in part very fine grained and oolitic	66	86
Fort Payne Chert:		
Upper unit:		
Limestone, greenish-gray, very fine grained, in part silicified	9	95
Limestone, light-greenish-gray to greenish-gray, very fine grained and very finely crystalline, dolomitic, in part silicified; calcite fossil detritus; some bluish-gray chert	9	104
Dolomite, greenish-gray, very fine grained and very finely crystalline, in part calcareous and silicified; some very light bluish gray to light-bluish-gray chert	46	150
Limestone, light-greenish-gray, fine- to coarse-grained and very fine grained, dolomitic, in part silicified, mainly composed of clastic grains of fossil detritus cemented with very fine grained dolomite; bluish-white to light-bluish-gray chert; some medium-greenish-gray shale	40	190
Middle unit:		
Dolomite, greenish-gray, very fine grained, calcareous, 50 percent silicified	15	205
Dolomite, greenish-gray, very fine grained, partly silicified; calcite crinoid stems and stem plates, mostly at top of unit; some dark-greenish-gray shale	36	241

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 6-T--Continued		
Fort Payne Chert--Continued		
Lower unit:		
Dolomite, greenish-gray to medium-greenish-gray, very fine grained and very finely crystalline, 50 percent silicified; some light-bluish-gray to bluish-gray chert at top of unit and greenish-gray shale.	55	296
Chert, bluish-white to light-bluish-gray; light-greenish-gray shale, probably the Maury Formation	3	299
Chattanooga Shale:		
Sandstone, yellowish-gray to very light greenish gray, very fine to coarse-grained, poorly sorted, quartzose, calcareous, pyritic, at top and bottom of formation; greenish-gray and light-olive-gray siltstone; brownish-gray to dark-brownish-gray pyritic shale	6	305
Test Well 7-T		
NW¼NW¼ sec. 21, T. 5 S., R. 4 W.		
Soil, red.	10	10
Soil, yellow and white; chert rubble.	10	20
Tuscumbia Limestone:		
Limestone, white to medium-light-gray, fine- to medium-grained and finely crystalline, in part oolitic; some light-gray chert	37	57

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 7-T--Continued		
Tuscumbia Limestone--Continued		
Limestone, very light brownish gray to brownish-gray, very light olive gray to light-olive-gray, light-gray to medium-gray, fine- to medium-grained and very finely crystalline.	15	72
Limestone, white to medium-light-gray, very fine to medium-grained and very finely to medium crystalline, in part oolitic	21	93
Fort Payne Chert:		
Upper unit:		
Limestone, greenish-white to greenish-gray, very fine grained to medium-grained and very finely crystalline to medium crystalline; in part bluish-white to medium-bluish-gray pyritic chert	17	110
Limestone, very light gray to medium-dark-gray, fine- to medium-grained and finely to medium crystalline	20	130
Middle unit:		
Limestone, very light gray to medium-light-gray, fine- to medium-grained and finely to medium crystalline; bluish-white to light-bluish-gray chert mostly at top of the unit.	32	162
Lower unit:		
Limestone, white to medium-light-gray and yellowish-gray to very light olive gray, finely to medium crystalline and fine- to medium-grained; bluish-white to dark-bluish-gray, brownish-gray, medium-gray chert.	29	191

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 7-T--Continued		
Fort Payne Chert--Continued		
Lower unit--Continued		
Dolomite, light-gray to medium-gray, very fine to fine-grained; light-gray to medium-gray fine-grained some medium crystalline limestone, containing crinoid stem plates; light-bluish-gray to medium-bluish-gray chert, in part completely silicified dolomite and limestone	49	240
Limestone, very light gray to medium-light-gray and light-greenish-gray to greenish-gray, fine-grained and finely to medium crystalline; light-gray to medium-gray and greenish-gray very fine to fine-grained dolomite; light-gray to medium-gray and dark-greenish-gray shale; light-bluish-gray to medium-bluish-gray chert, white to very light gray calcite	40	280
Limestone, white to light-gray, medium crystalline, probably composed of crinoid stems and stem plates; white to very light bluish gray chert; light-greenish-gray shale, probably the Maury Formation	6	286
Chattanooga Shale:		
Shale, medium-dark-gray to grayish-black and brownish-gray to brownish-black, pyritic; medium-gray very fine to coarse-grained poorly sorted sandstone	7	293
Test Well 8-T		
SW¼SE¼ sec. 26, T. 5 S., R. 4 W.		
Soil, red	35	35
Soil, yellow	35	70

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 8-T--Continued		
Sandy clay and gravel, yellow	21	91
Fort Payne Chert:		
Upper unit:		
Limestone, light olive-gray to medium-olive-gray, very fine to very coarse grained, in part dolomitic, highly weathered	58	149
Limestone, yellowish-gray and light olive gray to medium-olive-gray, very fine grained and fine- to medium-grained, dolomitic	15	164
Limestone, very light olive gray, very fine grained and medium-grained to coarse-grained, dolomitic; some greenish-gray shale	12	176
Middle unit:		
Limestone, very light olive gray, very fine grained to very coarse grained, dolomitic	8	184
Dolomite, greenish-gray, very fine grained	2	186
Limestone, greenish-gray, very fine to fine-grained, dolomitic; some bluish-gray chert	14	200
Dolomite, very light olive gray, very fine grained, calcareous, about 30 percent silicified, very light olive gray very fine grained limestone, 30 percent silicified, some bluish-gray chert	20	220
Lower unit:		
Dolomite, greenish-gray, very fine grained, 40 percent silicified, some bluish-gray and greenish-gray chert	22	242

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 8-T--Continued		
Fort Payne Chert--Continued		
Lower unit--Continued		
Dolomite, yellowish-gray and greenish-gray, very fine grained, 25 percent silicified; bluish-gray chert; some dark-greenish-gray shale	16	258
Dolomite, greenish-gray, very fine grained, 20 percent silicified; light-bluish-gray chert	7	265
Dolomite, greenish-gray to medium-greenish-gray, very fine grained, 20 percent silicified; greenish-gray chert, completely silicified dolomite; very light bluish gray to bluish-gray chert	17	282
Dolomite, light-greenish-gray to medium-greenish-gray, very fine grained; calcite crinoid stems and stem plates, mostly at top of unit; bluish-white to light-bluish-gray chert	11	293
Chattanooga Shale:		
Shale, dark-brownish-gray, pyritic; very light greenish gray fine- to medium-grained poorly sorted quartzose calcareous sandstone, at top and bottom of unit	5	298
Test Well 9-T		
SE¼NW¼ sec. 8, T. 6 S., R. 4 W.		
Soil, red and yellow; chert rubble	20	20
Tuscumbia Limestone:		
Limestone, white to very light gray, medium-grained, in part oolitic	12	32

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 9-T--Continued		
Tuscumbia Limestone--Continued		
Limestone, light-gray to medium-light-gray, medium-grained, in part oolitic	18	50
Limestone, yellowish-gray to medium-olive-gray, medium-grained, in part oolitic; light bluish-gray to medium-bluish-gray chert; some light-brownish-gray chert, completely silicified limestone	62	112
Limestone, yellowish-gray to light-olive-gray, fine- to medium-grained, in part oolitic, dolomitic near bottom of unit	48	160
Fort Payne Chert:		
Upper unit:		
Limestone, yellowish-gray to light-olive-gray, very fine to medium-grained, dolomitic, in part oolitic	27	187
Limestone, yellowish-gray to light-olive-gray, and light-brownish-gray to brownish-gray, very finely crystalline to medium crystalline, in part dolomitic; very light brownish gray to brownish-gray chert; bluish-white to bluish-gray chert	25	212
Limestone, greenish-white to greenish-gray, fine- to medium-grained, in part finely crystalline; bluish-white to medium-bluish-gray chert	34	246
Middle unit:		
Limestone, yellowish-gray to very light olive gray and light-gray, very fine grained and very finely crystalline, dolomitic, in part silicified, bluish-white to medium-bluish-gray chert	24	270

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 9-T--Continued		
Fort Payne Chert--Continued		
Middle unit--Continued		
Dolomite, very light olive gray and greenish-gray to dark-greenish-gray, very fine to fine-grained, in part calcareous; very light olive gray and greenish-gray chert; bluish-white to medium-bluish-gray chert; very light olive gray very fine grained dolomitic limestone; some dark-greenish-gray shale	20	290
Lower unit:		
Dolomite, greenish-gray to dark-greenish-gray, very fine grained; greenish-gray to dark-greenish-gray, and medium-gray to medium-olive-gray chert, completely silicified dolomite; bluish-white to medium-bluish-gray chert; some dark-greenish-gray shale	47	337
Dolomite, light-greenish-gray to medium-greenish-gray, very fine grained; some bluish-white chert and yellowish-gray to olive-gray and brownish-gray chert, completely silicified dolomite	20	357
Dolomite, greenish-gray, very fine grained; white to yellowish-gray medium to coarsely crystalline limestone, probably composed of crinoid stems and stem plates; yellowish-gray to light-olive-gray chert; some light-bluish-gray chert	7	364
Shale, greenish-gray to moderate grayish-green, calcareous, dolomitic, silicified, lower part soft, clayey, probably Maury Formation in part	6	370

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 9-T--Continued		
Chattanooga Shale:		
Shale, olive-gray to olive-black and brownish-gray to brownish-black, pyritic; yellowish-white to dark-olive-gray fine-grained medium sorted quartzose calcite cemented sandstone at top and bottom of formation	12.5	382.5
Test Well 10-T		
NE¼NW¼ sec. 15, T. 6 S., R. 4 W.		
Soil, red and yellow; chert rubble	20	20
Tuscumbia Limestone:		
Limestone, very light olive gray to medium-olive-gray, fine to very coarse grained, in part oolitic	31	51
Limestone, very light olive gray to light-olive-gray, very fine to medium-grained, in part very finely crystalline	59	110
Limestone, very light olive gray to medium-olive-gray, very fine to very coarse grained and very finely crystalline; some bluish-white to medium-bluish-gray chert	23	133
Limestone, light-greenish-gray to dark-greenish-gray, very fine to coarse-grained, in part very finely crystalline; some bluish-white to medium-bluish-gray chert	24	157
Fort Payne Chert:		
Upper unit:		
Limestone, yellowish-gray to light-olive-gray, very fine to very coarse grained, in part silicified; light-olive-gray chert, completely silicified limestone; some bluish-white to bluish-gray chert	8	165

Table 5.--*Sample logs of test wells in Morgan County, Ala* --Continued

	Thickness (feet)	Depth (feet)
Test Well 10-T--Continued		
Fort Payne Chert--Continued		
Upper unit--Continued		
Limestone, light-olive-gray, very fine grained and very finely crystalline, in part dolomitic; bluish-white to light-bluish-gray chert; some light-olive-gray chert	35	200
Middle unit:		
Limestone, light-olive-gray, very fine grained, in part very coarse grained and very finely crystalline, dolomitic; light-olive-gray, light-greenish-gray, and moderate yellowish-brown, very fine grained petroliferous dolomite; bluish-white to light-bluish-gray chert; some olive-gray shale	22	222
Dolomite, light-greenish-gray, very fine grained and very finely crystalline, calcareous; bluish-white to light-bluish-gray chert; light-greenish-gray chert; completely silicified dolomite	15	237
Lower unit:		
Dolomite, greenish-gray, very fine grained and very finely crystalline; bluish-white to very light bluish gray chert	14	251
Dolomite, greenish-gray, very fine grained and very finely crystalline; bluish-white to very light bluish gray chert; calcite crinoid stems and stem plates	24	275
Limestone, greenish-white to light-greenish-gray, finely to very coarsely crystalline, mostly crinoid stems and stem plates; some bluish-white chert and dark-greenish-gray siltstone	17	292

Table 5.--*Sample logs of test wells in Morgan County, Ala* --Continued

	Thickness (feet)	Depth (feet)
Test Well 10-T--Continued		
Fort Payne Chert--Continued		
Lower unit--Continued		
Dolomite, light-greenish-gray to greenish-gray, very fine grained to finely crystalline; calcite crinoid stems and stem plates; some bluish-white to very light bluish gray chert	30	322
Dolomite, light-greenish-gray to greenish-gray, very fine grained to finely crystalline; light-greenish-gray to greenish-gray chert, silicified dolomite; bluish-white to very light bluish gray chert; calcite crinoid stems and stem plates	18	340
Limestone, light-greenish-gray and pinkish-gray to medium-brownish-gray, very fine grained and finely crystalline, contains crinoid stems and stem plates; mixed bluish-gray and greenish-gray chert, contains calcite crinoid stem plates; greenish-gray silty shale; some greenish-gray siltstone; light-greenish-gray shale, probably the Maury Formation	7	347
Chattanooga Shale:		
Shale, medium-brownish-gray and dark-brownish-gray, in part sandy and silty, pyritic, contains Lingula sp. probably L. melie; pinkish-gray to medium-brownish-gray very fine to very coarse grained poorly sorted calcite cemented sandstone, mostly at bottom of the formation.	12	359

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 11-T		
NE¼NE¼ sec. 13, T. 6 S., R. 4 W.		
Soil, yellowish-brown, sandy	20	20
Soil, yellow	15	35
Limestone boulders and sand, yellow	16	51
Tuscumbia Limestone:		
Limestone, yellowish-gray to light-olive-gray, medium- to coarse-grained, oolitic; light-olive-gray very fine grained to finely crystalline limestone	3	54
Limestone, light-olive-gray, very fine to coarse-grained, in part oolitic and silicified; light-bluish-gray and light-greenish-gray chert	66	120
Limestone, light-olive-gray, very fine to coarse-grained and finely crystalline, in part oolitic; light-greenish-gray to dark-greenish-gray very calcareous silty shale; some light-bluish-gray chert	40	160
Limestone, light-olive-gray, very fine to coarse-grained and finely crystalline, in part oolitic; some light-greenish-gray to dark-greenish-gray shale	40	200
Fort Payne Chert:		
Upper unit:		
Limestone, yellowish-white to light-olive-gray and greenish-gray, very fine to coarse-grained and finely crystalline, dolomitic, in part silicified; bluish-white to medium-bluish-gray, some light-olive-gray chert and medium-greenish-gray to dark-greenish-gray shale	70	270

Table 5.--*Sample logs of test wells in Morgan County, Ala.*--Continued

	Thickness (feet)	Depth (feet)
Test Well 11-T--Continued		
Fort Payne Chert--Continued		
Upper unit--Continued		
Limestone, yellowish-white to very light olive gray, very fine to coarse-grained, dolomitic, in part silicified; calcite crinoid stems and stem plates; bluish-white to medium-bluish-gray chert, medium-greenish-gray to dark-greenish-gray shale	7	277
Middle unit:		
Dolomite, very light greenish gray to greenish-gray, moderate yellowish-brown at top of unit, very fine grained, in part very finely crystalline, 10 percent silicified, petroliferous; very light greenish gray to greenish-gray chert, completely silicified dolomite; bluish-white to very light bluish gray chert; some greenish-gray shale	50	327
Lower unit:		
Chert, greenish-gray; greenish-gray chert, completely silicified dolomite, greenish-gray very fine grained and very finely crystalline dolomite	18	345
Dolomite, light-greenish-gray, very fine grained and very finely crystalline, in part silicified; light-greenish-gray chert, light-bluish-gray chert	11	356

Table 5.—*Sample logs of test wells in Morgan County, Ala.*—Continued

	Thickness (feet)	Depth (feet)
Test Well 12-T		
NE¼NW¼ sec. 12, T. 8 S., R. 4 W.		
Soil, light-brown	11	11
Soil, dark-brown	3	14
Bangor Limestone:		
Limestone, greenish-gray, very finely to coarsely crystalline and very fine to medium-grained	23	37
Limestone, light-olive-gray, very fine to coarse-grained	66	103
Limestone, light-olive-gray, very fine to coarse-grained, very sandy, silty; some light-olive-gray shale near bottom of unit	22	125
Hartselle Sandstone:		
Sandstone, greenish-gray, very fine to medium-grained, poorly sorted, quartzose, very calcareous, calcite cemented	8	133

RECORD OF COMMUNICATION

☐ PHONE CALL ☒ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: Jan Rogers Chuck Pietroswicz
File

FROM: Bart Reedy

DATE 3/18/86

TIME 3:00 pm

SUBJECT
Aquadome Site Decatur Alabama

SUMMARY OF COMMUNICATION

I gave the emergency removial section the subject report and asked that they and C.O.C. look at it. The concern being direct contact by the children via the stream which bisects the playground.

Cam-
FYI. Make sure a copy of this is filed. Jan

CONCLUSIONS, ACTION TAKEN OR REQUIRED

Jan Rogers & Chuck Pietroswicz reviewed the report and concluded that while [redacted] concentration of some contaminants are elevated, the site does not pose an imminent threat at this time. ICS will evaluate the site for possible NPL inclusion.

Bart Reedy 3/18/86

INFORMATION COPIES
TO:

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 8300-3 WHICH MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

JUN 5 1986 JUN 5 RECD

RECORD OF COMMUNICATION	☐ PHONE CALL ☒ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE ☐ OTHER (SPECIFY) (Record of item checked above)	
TO: Jan Rogers Chuck Pietroswicz File	FROM: Bart Recoy	DATE 3/18/86 TIME 3 00 pm

SUBJECT
Aquadome Site Decatur Alabama

SUMMARY OF COMMUNICATION

I gave the emergency removial section the subject report and asked that they and C.O.C. look at it. The concern being direct contact by the children via the stream which bisects the playground.

Bart took report back. Get from him.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

Jan Rogers & Chuck Pietroswicz reviewed the report and concluded that while [redacted] concentration of some contaminants are elevated, the site does not pose an imminent threat at this time.
ICS will evaluate the site for possible NPL inclusion.
Bart Recoy 3/18/86

INFORMATION COPIES
TO:

EPA Form 1300-6 (7-72) REPLACES EPA HQ FORM 8300-3 WHICH MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

EPA

POTENTIAL HAZARDOUS WASTE SITE
TENTATIVE DISPOSITION

REGION: IV | SITE NUMBER: ALD980842512

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency, Site Tracking System, Hazardous Waste Enforcement Task Force *(EN-335)*, 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Agradome	1501 5th Ave SW	
C. CITY	**D. STATE**	**E. ZIP CODE**
Decatur	AL	35601

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED -- NO HAZARD					
B. INVESTIGATIVE ACTION(S) NEEDED *(If yes, complete Section III.)*	X	X			
C. REMEDIAL ACTION NEEDED *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION NEEDED *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR DISPOSITION

School on top of inactive dump area. Groundwater + surface water contamination observed. Potential for public relations problem. HIGH PRIORITY site. State already requested EPA investigate this site. Submitted to Doug Lair Oct. 84

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION *(mo., day, & yr.)*	G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*
Camilla Warren	FTS 257-2234	11/01/84

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

B. PROPOSED INVESTIGATIVE ACTIVITY *(Detailed Information)*

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo,day, & yr)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION (1)				
(2)				
(3)				
b. TYPE OF MONITORING (1)				
(2)				
c. TYPE OF SAMPLING (1)				
(2)				

EPA Form T2070-4 (10-79)

Continue On Reverse

...nued From Front

III. INVESTIGATIVE ACTIVIT... NEEDED and PART B - PROPOSED INVESTIGATIVE ACTIVITY (Continued)

d. TYPE OF LAB ANALYSIS (1) (2)				
e. OTHER (specify) (1) (2)				

C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B (on front & above) AS NEEDED TO IDENTIFY ADDITIONAL INVESTIGATIVE WORK.

D. ESTIMATED MANHOURS BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES	1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES
a. EPA		b. STATE	
c. EPA CONTRACTOR		d. OTHER (specify)	

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY STRATEGY (On Site & Off-Site): List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below.

1. ACTION	2. EST. START DATE (mo, day, & yr)	3. EST. END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY (On Site & Off-Site): List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. EST. START DATE (mo, day, & yr)	3. EST. END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				$	
				$	
				$	
				$	
				$	
				$	

C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES	1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES
a. EPA			b. STATE		
c. PRIVATE PARTIES			d. OTHER (specify)		

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: AD980842512

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
AQUA DOME	1501 5th Ave SW				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Decatur	AL	35601	Morgan	103	05
09 COORDINATES LATITUDE: 34 35 30 / LONGITUDE: 086 59 30	Joel Pugh - City Engineer 205/353-5437				

10 DIRECTIONS TO SITE (Starting from nearest public road)
Austinville Rd. & 5th Ave in Decatur - proceed west one block to Aquadome Park.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
City of Decatur & Morgan Co.	P.O. Box 488		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Decatur	AL	35602	(205) 353-5414
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)		
Same as above	↑ Sanitation Dept.		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☑ D. COUNTY ☑ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☑ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☑ YES DATE ___/___/___ (MONTH DAY YEAR)
☐ NO
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☑ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER _____ (Specify)
Solid Waste Div. only CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☑ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION: _____ (BEGINNING YEAR) | ± 1960 (ENDING YEAR) ☑ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
High pH (12.50) in one monitoring well, Barium up to 1.24 mg/l. Dichloroethene & trichloroethene detected in wells & leachate in ditch. Noticeable methane gas in basements of recreation & school buildings on this former dump site.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Groundwater and surface water contamination appears to be migrating offsite. Methane gas hazard up to 8% LEL outdoors and 2% LEL in Brookhaven Middle School Building. Young children regularly on the site in school, pool, & recreation areas.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☑ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/organization)	03 TELEPHONE NUMBER
Steve Maurer Sam	AOEM	(205) 271-7728
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Paul J. Bierstone, P.E.		EPS	(404) 922-8242	9 25 84 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
AL	0980842572

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ✓ A SOLID
- B POWDER FINES
- C SLUDGE
- ✓ D OTHER (Specify) Land burial (Dump)
- ✓ E SLURRY
- ✓ F LIQUID
- ✓ G GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS: unknown

CUBIC YARDS:

NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)

- ✓ A TOXIC
- ✓ B CORROSIVE
- C RADIOACTIVE
- ✓ D PERSISTENT
- ✓ E SOLUBLE
- F INFECTIOUS
- ✓ G FLAMMABLE
- ✓ H IGNITABLE
- ✓ I HIGHLY VOLATILE
- ✓ J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
(SOL)	SOLVENTS	Unknown		Di-chloro/trichloro ethane in wells & ditch thru site
PSD	PESTICIDES			
(OCC)	OTHER ORGANIC CHEMICALS	Unknown		Methane gas & possible isomers
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
(BAS)	BASES	Unknown		pH 12.5 in M.W. # 3 in 1983
(MES)	HEAVY METALS	"		Barium

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	1,2 Dichloro ethane		Open dump burial	77.1	ug/l
SOL	Trichloro ethene	25323-89-1	Open dump burial	50.6	ug/l
SOL	Tetrachloro ethane		" " "	10.5	ug/l
	Note: above SOL concentrations in ditch water flowing thru site - also present in monitoring wells.				
OCC	Methane (& possible isomers)		Generated in dump (possibly ignitable/explosive)	8%	LEL
BAS	Unknown		In ground water	pH 12.5	s.u.
MES	Barium		In ground water (Exceeds Primary Drinking Water Standard)	1.24	mg/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

- ADEM Solid Waste Files & Staff Communications
- Telecon w/ Harold Smith, Decatur Sanitation Dept.

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: AL980842512

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☑ A. GROUNDWATER CONTAMINATION — 02 ☑ OBSERVED (DATE 1981-83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown — 04 NARRATIVE DESCRIPTION

Chlorinated hydrocarbons & barium in monitoring wells around site.

01 ☑ B. SURFACE WATER CONTAMINATION — 02 ☑ OBSERVED (DATE 1981) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Chlorinated hydrocarbons in ditch water running thru site

01 ☑ C. CONTAMINATION OF AIR — 02 ☑ OBSERVED (DATE 1983) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Methane gas accumulating in basement of school & possibly recreation buildings. Higher levels outdoors on east edge of dump site.

01 ☑ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) ☑ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Methane gas potentially ignitable/explosive at levels detected outdoors.

01 ☑ E. DIRECT CONTACT — 02 ☑ OBSERVED (DATE 1981-83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

School children have been observed playing in ditch. School building & recreational facilities built on top of this former open dump site.

01 ☑ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) ☑ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: unknown (Acres) — 04 NARRATIVE DESCRIPTION

From leaching/runoff

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Unknown. Decatur uses Tenn. river water. May be water wells in area. Check during site inspection.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Unknown

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: AL | 02 SITE NUMBER: AL0980842512

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☑ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED: unknown
04 NARRATIVE DESCRIPTION
Chlorinated hydrocarbons in ditch water leaching from site. In the middle of a school/rec. area play yard.
02 ☑ OBSERVED (DATE: 1981) ☐ POTENTIAL ☐ ALLEGED

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☑ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION
Open dump site closed in 1950-60's.
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Same contaminants @ this site as @ the 3M Decatur plant, ALD004023164 — they may have been a contributor of dichloro/trichloroethane to this site also.

III. TOTAL POPULATION POTENTIALLY AFFECTED: Daytime Student population

IV. COMMENTS
This is an old uncontrolled dump site. School & recreational facilities located on the 1 square block area of dump site. School age children potentially exposed (to ditch) and air contamination from volatile emissions.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
ADEM Files & Communications

EPA FORM 2070-12 (7-81)

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
EPS FORM 3012-II

TELEPHONE LOG SHEET

1. Site Identification:
   Site number: ALD980 842 512
   Site name: AQUADOME

2. Interview Data: (Party called)
   Name: Mr. Harold Smith
   Position: Sanitation Dept.
   Firm: City of Decatur
   Address: P.O. Box 488
   Decatur, AL. 35602
   Telephone No.: (205) 353-5414

3. EPS Analyst Data:
   Name: Paul J. Bierstine
   Purpose of call: Information about site history
   Form 2070-12 (7-81) P.N. Part I
   Date of call: 7/25/84

4. Interview Narrative Summary: Mr. Smith said the dump site was closed over 20 years ago & the site was used for recreation facilities & the Brookhaven Middle School was built there. He is not aware of any illness or sickness attributable to exposure at the site. There is still differential settlement occurring, causing damage to the tennis courts & school building. He also said that he thought EPA looked at this site 3 or 4 years ago.

5. Disposition/Comments:

6. Comments: Any additional sites used by this company?
   Location:
   Dates of use:
   Description of waste:
   Comments:

SW Morgan Co. Misc

August 22, 1984

Mr. Joel N. Pugh
City Engineer
P. O. Box 488
Decatur, AL 35602

Lat. 34 N 35'30"
Long. 86 W 58'30"

Dear Mr. Pugh: ALD980842512

We have been reviewing the monitoring data on the Old Aquadome landfill as submitted to this office on June 26, 1984. 1501 5th Ave. S.W., Decatur, Ala.

The gas monitoring indicated a 2% LEL in the Brookhaven Middle School Building. It is my understanding that an automatic alarm is in the basement of the school to detect the presence of gas before it reaches the explosive level. I would suggest that someone check out this system to insure that it is working correctly. This is necessary since a low level of gas has been detected.

If you have any questions or if we can assist you in any way, please contact us.

Sincerely,

Jack Honeycutt, Chief
Solid Waste Section
Land Division

JH/sl

CITY OF DECATUR

Sample Analysis by [illegible] Engineering Company, Inc.

Aquadome - Old Landfill		C. Hunter
Sampling Location		Sampled By:
30 March 1984	Monitoring Wells	2 April 1984
Collection Date	Type Analysis	Date Reported

Well No.	Chloride	Conductivity	Iron	Ph
1	11 mg/l	610	0.74 mg/l	7.90
2	45 mg/l	600	2.6 mg/l	7.24
3	16 mg/l	3500	0.08 mg/l	12.03
4	280 mg/l	1220	0.7 mg/l	7.77

Gas Monitoring

East Side (Open Area)	- 8% LEL
North Side (Open Area)	- 0%
West Side (Open Area)	- 0%
South Side (Open Area)	- 0%
Aquadome Building	- 0%
Brookhaven Middle School Building	- 2% LEL

CITY OF DECATUR

Sample Analysis by Mabry Engineering Company, Inc.

Aquadome - Old Landfill Sampling Location		C. Hunter Sampled By:
14 April 1983 Collection Date	Monitoring Wells Type Analysis	19 April 1983 Date Reported

Well No.	Chloride	Conductivity	Iron	Ph
1	21 mg/1	700	0.13 mg/1	6.59
2	49 mg/1	720	4.0 mg/1	6.45
3	1.5 mg/1	5000	0.03 mg/1	12.50
4	197 mg/1	1190	0.2 mg/1	7.17

Gas Monitoring

East Side (Open Area)	- 8% LEL
North Side (Open Area)	- 0%
West Side (Open Area)	- 0%
South Side (Open Area)	- 0%
Aquadome Building	- 0%
Brookhaven Middle School Building	- 2% LEL

February 25, 1985

Mr. Joel Pugh
City Engineer
P.O. Box 486
Decatur, Alabama 35602

Dear Mr. Pugh:

Attached are laboratory reports of water samples collected from the monitoring wells at the Aquadome and the old Houlton Road landfill. You will note the presence of dichloroethene in well 4 and the drainage ditch at the Aquadome.

If you have any questions on the reports, give me a call.

Sincerely,

Jack Honeycutt, Chief, Solid Waste Section
Lana Program

JH:cc

Enclosures

cc Ms. Patsy Hardman w/enclosures
Morgan County Health Department

February 23, 1983

Mr. Joel Pugh
City Engineer
P.O. Box 488
Decatur, Alabama 35602

Dear Mr. Pugh:

Attached are laboratory reports of water samples collected from the monitoring wells at the Aquadome and the old Moulton Road landfill. You will note the presence of dichloroethene in well 4 and the drainage ditch at the Aquadome.

If you have any questions on the reports, give me a call.

Sincerely,

Jack Honeycutt, Chief, Solid Waste Section
Land Program

JH:ca

Enclosures

cc Ms. Peggy Hardman w/enclosures
Morgan County Health Department

MONITORING SUMMARY

NAME OF SITE Aquadome PERMIT NUMBER 52-05

LOCATION OF SITE Decatur, Alabama

Morgan County

RESPONSIBLE PERSON Honorable Bill J. Dukes

Mayor, City of Decatur

P. O. Box 488, Decatur, Alabama 35602

CONTACT PERSON See Clyde Mabry or Joel Pugh for keys

TELEPHONE NUMBER 353-3937

DATE OF MONITORING AND SITE CONDITIONS Monitored on 8/11/82 by L. G. Linn and Kenny Hubert under good conditions.

SAMPLING PROCEDURES Four monitoring wells were sampled by bailing and one ditch sample was taken. Sampling protocol includes preservation, labeling, sample handling, and chain of custody as recorded on assigned data cards for every sample submitted to the Environmental Health Administration Laboratory. The samples are logged in a bound book and assigned a laboratory number for future reference to all analyses performed at the laboratory. The results are reported on original data cards for compilation into the attached final sample report.

COMMENTS Monitoring wells scheduled for recheck next year.

hj

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05

Aquadome	1972, 1990, 2008, 2026, 1959	Linn/hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #1	9/7/82
Collection Date	Type Analysis	Date Reported
D.T.W. 9'6" - 2'9"	T.D. 27'6"	9/13/82 OK

Other Sample Information

pH	6.2		Arsenic as As	<.01	mg/l
Specific Conductance	800	umho/cm	Barium as Ba	<.5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	<.05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	<.05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	<.5	mg/l
Chloride as Cl^-	44	mg/l	Mercury as Hg	<.001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	.24	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	<.10	mg/l
Sulfate as SO_4	6.5	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	4	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	35.7	mg/l
Phenols	<.02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	<.002	~~mg/l~~ µg/l
Organochlorine Pesticides		mg/l	Endrin	<.009	~~mg/l~~ µg/l
Organophosphorous Pesticides		mg/l	Toxaphene	<.40	~~mg/l~~ µg/l
Volatile Organics	<10	~~mg/l~~ µg/l	Methoxyclor	<.176	~~mg/l~~ µg/l
PCB's		mg/l	Herbicides		mg/l
		mg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

Remarks:

hj

ADPH-F-SW-3/Rev. 8/81

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1973, 1991, 1960, 2027, 2009	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82 5:30	MW #2	9/7/82
Collection Date	Type Analysis	Date Reported
13'7" - 2'9" to water		9/13/82 OK

Other Sample Information

pH	6.0		Arsenic as As	< .01	mg/l
Specific Conductance	690	umho/cm	Barium as Ba	< .5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	< .05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	< .05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	< .5	mg/l
Chloride as Cl^-	73.0	mg/l	Mercury as Hg	< .001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	.40	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	39.04	mg/l
Sulfate as SO_4	7.5	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	17	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	55.2	mg/l
Phenols	< .02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	< .002	µg/l
Organochlorine Pesticides		mg/l	Endrin	< .009	µg/l
Organophosphorous Pesticides		mg/l	Toxaphene	< .40	µg/l
Volatile Organics	< 10	µg/l	Methoxyclor	< .176	µg/l
PCB's		mg/l	Herbicides		mg/l
		mg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
Remarks:			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

hj

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05

Aquadome	1974, 1992, 2010, 2028, 1961	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #3	9/7/82
Collection Date	Type Analysis	Date Reported
D.T.W. 8'7" - 2'8"	T.D. of 30'	9/13/82 OK

Other Sample Information

pH		11.2		Arsenic as As	<.01 mg/l
Specific Conductance		3,200	umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids			mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$			mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$			mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-		240	mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4			mg/l	Selenium as Se	mg/l
Fluoride			mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$			mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N		.14	mg/l	Calcium as Ca	mg/l
Phosphate as P			mg/l	Copper as Cu	mg/l
Silica as SiO_2			mg/l	Iron as Fe	.10 mg/l
Sulfate as SO_4		19.0	mg/l	Magnesium as Mg	mg/l
Turbidity			JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)		37	mg/l	Nickel as Ni	mg/l
Cyanide as CN			mg/l	Potassium as K	mg/l
Oil and Grease			mg/l	Sodium as Na	98.1 mg/l
Phenols		<.02	mg/l	Zinc as Zn	mg/l
Acid Extractables			mg/l	Pesticides	mg/l
Base Neutrals			mg/l	Lindane	<.002 ~~mg/l~~ µg/l
Organochlorine Pesticides			mg/l	Endrin	<.009 ~~mg/l~~ µg/l
Organophosphorous Pesticides			mg/l	Toxaphene	<.40 ~~mg/l~~ µg/l
Volatile Organics		<10	~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~ µg/l
PCB's			mg/l	Herbicides	mg/l
			mg/l	2,4-D	mg/l
			mg/l	2,4,5-T	mg/l
			mg/l	Silvex	
				Radioactivity	
				Alpha	pCi/l
				Beta	pCi/l
				Gamma Scan	

Remarks:

hj

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1975, 1993, 2011, 2029, 1963	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #4	9/7/82
Collection Date	Type Analysis	Date Reported

Other Sample Information

pH	8.4		Arsenic as As	.01	mg/l
Specific Conductance	1200	umho/cm	Barium as Ba	<.5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	<.05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	<.05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	<.5	mg/l
Chloride as Cl^-	325	mg/l	Mercury as Hg	<.001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	34	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	6.65	mg/l
Sulfate as SO_4	136.0	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	13	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	100.3	mg/l
Phenols	<.02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	<.002	~~mg/l~~ µg/l
Organochlorine Pesticides		mg/l	Endrin	<.009	~~mg/l~~ µg/l
Organophosphorous Pesticides		mg/l	Toxaphene	<.40	~~mg/l~~ µg/l
Volatile Organics	<10	~~mg/l~~ µg/l	Methoxyclor	<.176	~~mg/l~~ µg/l
PCB's		mg/l	Herbicides		mg/l
Trans. 1.2 - dichloroethene	14	~~mg/l~~ µg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
Remarks:			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

hj

ADPH-F-SW-3/Rev. 8/81

#1

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch *	740	Linn
Sampling Location	**Laboratory Sample Number**	**Collector**
3/10/81		10/22/81
Collection Date	**Type Analysis**	**Date Reported**

Water was clear and flowing swiftly Fld ph 5.7 and 65°F

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
lica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
Tran 1,2 dichlorothane	77.1 ug/l	2,4-D	mg/l
trichloroethene	50.6 ug/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

*At 2nd Ave. near Hillwood Apts.

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HAZARDOUS WASTE SITE INVESTIGATION
GROUNDWATER MONITORING
3-M CORPORATION
DECATUR, ALABAMA
JANUARY 7, 1983

(investigation conducted June 1982)

INTRODUCTION

The 3-M Corporation recently completed the installation of groundwater monitoring wells and piezometers at their Decatur, Alabama facility. The wells were installed as part of the 3-M monitoring program to isolate the source or sources of purgeable organic compounds which were detected in potable water supply wells located on the facility property during previous investigations (1,2,4).

This investigation, requested by the Environmental Protection Agency (US-EPA), Region IV, Air and Waste Management Division (AWMD), was conducted at the 3-M Corporation on June 29, 1982 by Jim Kopotic and Don Lawhorn of the US-EPA, Region IV, Environmental Services Division. Harold Taylor of the State of Alabama's Division of Solid and Hazardous Waste was present during the investigation. The facility contacts were Frank Blackwell and J. K. Williamson, of the 3-M Corporation, Decatur, Alabama. The objective of this investigation was to sample the newly installed monitoring wells and the former potable supply wells ("cabin wells") to determine possible contamination levels for purgeable organic compounds, ~~in particular~~ **1,1,1-trichloroethane and 1,1-dichloroethene.**

Note: This is not the same site as Aquadome, but the contaminants are the same. It appears 3M may have contributed to Aquadome also.

STUDY AREA

~~3-M Corporation is located northwest of Decatur, Alabama. The area is~~ bounded on the north and east by Wheeler Lake (Tennessee River Reservoir), the south by Joe Wheeler Highway, and the west by Finley Island Road. Several other industrial complexes are located in the area. While the Decatur area is generally underlain with weathered St. Genevieve limestone, mantled with unconsolidated deposits of clay, sand, and gravel (10), the formation beneath the 3-M site is Tuscumbia limestone.

Since the June 1981 investigation, as part of their on-going monitoring program, the 3-M Corporation has installed five deep monitoring wells into the limestone aquifer, and four surficial monitoring wells, which were installed in boreholds with four of the deep monitoring wells. Samples were collected from the deep wells by means of a submersible pump, and from the shallow wells using a nitrogen operated sampler (BarCad sampler). All evacuation/sampling equipment is permanently installed to prevent cross contamination which might be caused by sampling equipment.

Installation of the monitoring wells was completed during the week of March 8, 1982 (6). The general area groundwater flow, as determined by 3-M Corporation and their groundwater consultants, is to the north. Based on this information the upgradient well is identified as MP-1 and the downgradient wells are the older "cabin wells" designated as 3M-3, 3M-4, and 3M-5 (Figure 1). Although the "cabin wells" were at one time used as a source of potable water, this is no longer true. The cabins were destroyed and the wells were left

operational for groundwater monitoring purposes. Well designation "MP" is used for the newly installed wells, with "I" representing samples collected from the shallow aquifer, and "II" samples collected from the deep well. For example MP1-I and MP1-II represents the sample collected from monitoring point 1, utilizing the BarCad sampler and deep well pump, respectively. Four monitoring wells, identified as MP1, MP3, MP4, and MP5 (Figure 1) have both a BarCad and deep well installed in the same original well borehole. The zone between the surficial and limestone aquifers was sealed using bentonite cement. The well identified as MP2 is a deep well installed in the limestone aquifer. The cabin wells, identified as 3M-3, 3M-4, and 3M-5 are deep wells.

Attached to this report as Appendix A is a description of a BarCad sampler (11). Also included is a sketch showing the surficial and limestone monitoring well design (5).

BACKGROUND

Summarized below are the events leading to the identification of the sources of contamination from purgeable organic compounds resulting from past disposal practices at the 3-M Corporation facility.

- January 1979 - US-EPA personnel conducting a study of the Tennessee River Canal sampled one of the cabin wells (3M-5) then used by Mr. Don Hagwood. High levels of several purgeable organic compounds, including 1,1,1-trichloroethane at 2,250 ug/l, were detected (1).

- August 1979 - US-EPA personnel returned to the Decatur area to determine source or sources of contamination. Of the samples collected from the three industrial complexes inspected (Monsanto Textile, 3-M Corporation, Amoco Chemical) 1,1,1-trichloroethane was detected only in the sample from the 3-M Corporation's treated process wastewater (2).

- October 1979 - A large barren mud flat was found south of the 3-M facility's production area. The air in the low mud flat area had a sickeningly sweet chemical odor combined with a septic sludge odor (2).

- June 1981 - Samples collected from the cabin wells (3M-3, 3M-4, and 3M-5) were contaminated with 1,1,1-trichloroethane and 1,1-dichloroethane. Samples were collected from the mud flat area, and chemical analysis revealed 1,1,1-trichloroethane, 1,1,1-dichloroethene, and acetone (4).

DISCUSSION AND RESULTS

All sampling locations are described in Table I and shown on Figure 1. Water level measurements, obtained from facility records, are recorded in Table II. All analytical data are summarized in Table III, with complete analytical data included as Appendix B.

MONITORING SUMMARY

NAME OF SITE Aquacome PERMIT NUMBER 52-05

LOCATION OF SITE Decatur, Alabama

Morgan County

RESPONSIBLE PERSON Honorable Bill G. Dake

Mayor, City of Decatur

P. O. Box 488, Decatur, Alabama 35602

CONTACT PERSON See Clyde Mabry or Joel Pugh for keys

TELEPHONE NUMBER 353-3937

DATE OF MONITORING AND SITE CONDITIONS Monitored on 8/11/82 by L. G. Linn and Kenny Hubert under good conditions.

SAMPLING PROCEDURES Four monitoring wells were sampled by bailing and one ditch sample was taken. Sampling protocol includes preservation, labeling, sample handling, and chain of custody as recorded on assigned data cards for every sample submitted to the Environmental Health Administration Laboratory. The samples are logged in a bound book and assigned a laboratory number for future reference to all analyses performed at the laboratory. The results are reported on original data cards for compilation into the attached final sample report.

COMMENTS Monitoring wells scheduled for recheck next year.

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Sampling Location	Laboratory Sample Number	Collector
52-05 Aguacome	1972, 1990, 2008, 2026, 1959	Linn/Hulbert
Collection Date	**Type Analysis**	**Date Reported**
8/11/82	MW #1	9/7/82
D.T.W. 9'6" - 2'9"	T.D. 27'6"	9/10/82 DK

Other Sample Information

pH	6.2	Arsenic as As	<.01 mg/l
Specific Conductance	800 umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-	4[illegible] mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	.24 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	<.10 mg/l
Sulfate as SO_4	6.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	4 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	35.7 mg/l
Phenols	<.02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	<.002 ~~mg/l~~ µg/l
Organochlorine Pesticides	mg/l	Endrin	<.009 ~~mg/l~~ µg/l
Organophosphorous Pesticides	mg/l	Toxaphene	<.40 ~~mg/l~~ µg/l
Volatile Organics	<10 ~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~ µg/l
PCB's	mg/l	Herbicides	mg/l
_____	mg/l	2,4-D	mg/l
_____	mg/l	2,4,5-T	mg/l
_____	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

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DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1978, 1991, 1960, 2027, 2009	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82 5:30	MW #2	9/7/82
Collection Date	Type Analysis	Date Reported
13'7" - 2'9" to water		9/13/82 DK

Other Sample Information

pH	6.0		Arsenic as As	< .01	mg/l
Specific Conductance	690	umho/cm	Barium as Ba	< .5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	< .05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	< .05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	< .5	mg/l
Chloride as Cl^-	73.0	mg/l	Mercury as Hg	< .001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	.40	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	39.04	mg/l
Sulfate as SO_4	7.5	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	17	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	55.2	mg/l
Phenols	< .02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	< .002	~~mg/l~~ µg/l
Organochlorine Pesticides		mg/l	Endrin	< .009	~~mg/l~~ µg/l
Organophosphorous Pesticides		mg/l	Toxaphene	< .40	~~mg/l~~ µg/l
Volatile Organics	< 10	~~mg/l~~ µg/l	Methoxyclor	< .176	~~mg/l~~
PCB's		mg/l	Herbicides		mg/l
		mg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
Remarks:			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

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52-05 Aquadome	19[illegible] [illegible] 20[illegible] [illegible]61	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #3	9/7/82
Collection Date	Type Analysis	Date Reported
D.T.W. 8'7" - 2'8"	T.D. of 30	9/13/82

Other Sample Information

pH	11.2		Arsenic as As	.0[illegible]	mg/l
Specific Conductance	3.200	umho/cm	Barium as Ba	.5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	.05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	.05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	.5	mg/l
Chloride as Cl^-	240	mg/l	Mercury as Hg	.001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	.4	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	.10	mg/l
Sulfate as SO_4	19.0	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	37	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	98.1	mg/l
Phenols	.02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	.002	~~mg/l~~ µg
Organochlorine Pesticides		mg/l	Endrin	.009	~~mg/l~~ µg
Organophosphorous Pesticides		mg/l	Toxaphene	.40	~~mg/l~~ µg
Volatile Organics	10	~~mg/l~~ µg/l	Methoxyclor	.176	~~mg/l~~ µg/
PCB's		mg/l	Herbicides		mg/l
		mg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

Remarks:

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52-05 Aquadome	1975, 1993, 2011, 2029, 1962	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	MW #4	9/7/82
Collection Date	Type Analysis	Date Reported

Other Sample Information

pH	8.4		Arsenic as As	.01	mg/l
Specific Conductance	1200	umho/cm	Barium as Ba	<.5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	<.05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	<.05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	<.5	mg/l
Chloride as Cl^-	325	mg/l	Mercury as Hg	<.001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	34	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	6.65	mg/l
lfate as SO_4	136.0	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	13	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	100.3	mg/l
Phenols	<.02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	<.002	~~mg/l~~ µg
Organochlorine Pesticides		mg/l	Endrin	<.009	~~mg/l~~ µg
Organophosphorous Pesticides		mg/l	Toxaphene	<.40	~~mg/l~~ µg/
Volatile Organics	<10	~~mg/l~~ µg/l	Methoxyclor	<.176	~~mg/l~~ µg
PCB's		mg/l	Herbicides		mg/l
Trans. 1.2 - dichloroethene	14	~~mg/l~~ µg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
Remarks:			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

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ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05

Sampling Location	Laboratory Sample Number	Collector
'quadome	1976, 1994, 2012, 2030, 1963	Linn/Hubert
Collection Date	**Type Analysis**	**Date Reported**
8/11/82	Ditch	9/7/82
63°F clear.	less than 100 gallons/min. minnows present	~~9/13/82~~ ok

Other Sample Information

pH	7.5	Arsenic as As	<.01 mg/l
Specific Conductance	340 umho/cm	Barium as Ba	<.5 mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<.5 mg/l
Chloride as Cl^-	18.0 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	1.50 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	.84 mg/l
Sulfate as SO_4	13.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	13 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	8.4 mg/l
Phenols	<.02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	<.002 ~~mg/l~~ µg/l
Organochlorine Pesticides	mg/l	Endrin	<.009 ~~mg/l~~ µg/l
Organophosphorous Pesticides	mg/l	Toxaphene	<.40 ~~mg/l~~ µg/l
Volatile Organics	<10 ~~mg/l~~ µg/l	Methoxyclor	<.176 ~~mg/l~~ µg/l
PCB's	mg/l	Herbicides	mg/l
Trans 1,2 - dichloroethene	14 ~~mg/l~~ µg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

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ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1789, 1795, 1803, 1817	Ford
Sampling Location	Laboratory Sample Number	Collector
8-4-81	M. W. [illegible]	11/4/81 4/14/82
Collection Date	Type Analysis	Date Reported

Water level from top of pipe 15' 9" Pipe height 2' 8" - 13" I" from ground

Other Sample Information

pH	6.5	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.66 mg/l
Total Dissolved Solids	598 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	310 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	100.5 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< .01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	<0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	0.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	17.9 mg/l
Sulfate as SO_4	5.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	69.8 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	51.7 mg/l
Phenols	< .02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
_____	mg/l	2,4-D	Ø mg/l
_____	/l	2,4,5-T	Ø mg/l
_____	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1786, 1802, (1816)	Ford
Sampling Location	Laboratory Sample Number	Collector
8-4-81	M. W. #1	11/5/81 4/14/82
Collection Date	Type Analysis	Date Reported

Water level from top of pipe 15' 8" Pipe 2' 1" height 12' 10" from ground

Other Sample Information

pH	6.6	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	1.24 mg/l *
Total Dissolved Solids	552 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	324 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	70.0 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< 0.01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	< 0.04 mg/l	Calcium as Ca	mg/l
hosphate as P	.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	8.9 mg/l
Sulfate as SO_4	4.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	73.9 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	20.5 mg/l
Phenols	< .02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	Ø mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

*Exceeds Primary Drinking Water Standards

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1790, 1776, 1804, 1818	Linn
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M.W. #3	11/5/81 4/14/82
Collection Date	Type Analysis	Date Reported
W L at 7' 4" pipe height 2' 8"	2' 8" from ground	

Other Sample Information

pH	10.3	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.84 mg/l
Total Dissolved Solids	793 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	250 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	215.0 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< .01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	< 0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	1.4 mg/l
Sulfate as SO_4	48.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	99.7 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	176.7 mg/l
Phenols	0.43 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

ADPH-F-SW-3/Rev.

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1805, 1791, 1777, 1819	Ford
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M. W. #4	4/14/82
Collection Date	Type Analysis	Date Reported

Water level at 11' 3" pipe height 2' 9", 8' 6" from ground level

Other Sample Information

pH	9.6	Arsenic as As	<.01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.50 mg/l
Total Dissolved Solids	933 mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	64 mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<0.5 mg/l
Chloride as Cl^-	220.0 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	<.01 mg/l
Fluoride	mg/l	Silver as Ag	<.05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	<0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	<.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	0.9 mg/l
Sulfate as SO_4	44.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	86.8 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	64.9 mg/l
Phenols	.0 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	<20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

1h

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1819	Linn/Ford
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M. W. 44	[illegible]
Collection Date	Type Analysis	Date Reported

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
hosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

1h
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#3

4 of 4
Previously reported

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch	SW-7	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81	Surface Water	10/22/81
Collection Date	Type Analysis	Date Reported

Sampling Point #3

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	Ø mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
	mg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

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#2

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch	SW-736	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81	Surface Water	10/22/81
Collection Date	Type Analysis	Date Reported

Sampling Point #2

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
lica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
Tetrachloroethane	10.5 µg/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:
LH

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ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1788,1774, 1802, (1816)	Ford
Sampling Location	Laboratory Sample Number	Collector
8-4-81	M. W. #1	11/5/81 4/14/82
Collection Date	Type Analysis	Date Reported

Water level from top of pipe 15' 8" Pipe 2' 10" height 12' 10" from ground

Other Sample Information

pH	6.6		Arsenic as As	<.01	mg/l
Specific Conductance		umho/cm	Barium as Ba	1.24	mg/l *
Total Dissolved Solids	552	mg/l	Cadmium as Cd	<.05	mg/l
Alkalinity, Total as $CaCO_3$	324	mg/l	Chromium as Cr	<.05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	<0.5	mg/l
Chloride as Cl^-	70.0	mg/l	Mercury as Hg	<.001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se	<0.01	mg/l
Fluoride		mg/l	Silver as Ag	<.05	mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	<0.04	mg/l	Calcium as Ca		mg/l
Phosphate as P	.2	mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	8.9	mg/l
Sulfate as SO_4	4.0	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	73.9	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	20.5	mg/l
Phenols	<.02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides	Ø	mg/l
Base Neutrals	Ø	mg/l	Lindane	Ø	mg/l
Organochlorine Pesticides		mg/l	Endrin	Ø	mg/l
Organophosphorous Pesticides		mg/l	Toxaphene	Ø	mg/l
Volatile Organics		mg/l	Methoxyclor	Ø	mg/l
PCB's	Ø	mg/l	Herbicides	Ø	mg/l
		mg/l	2,4-D	Ø	mg/l
		mg/l	2,4,5-T	Ø	mg/l
		mg/l	Silvex	Ø	
			Radioactivity		
			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

Remarks:

Exceeds Primary Drinking Water Standards

JH

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1789, 1795, 1803, 1817	Ford
Sampling Location	Laboratory Sample Number	Collector
8-4-81	M. W. #2	11/4/81 4/14/82
Collection Date	Type Analysis	Date Reported

Water level from top of pipe 15' 9" Pipe height 2' 8" - 13" 1" from ground

Other Sample Information

pH	6.5	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.66 mg/l
Total Dissolved Solids	598 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	310 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	100.5 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< .01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	<0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	0.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	17.9 mg/l
Sulfate as SO_4	5.5 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	69.8 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	51.7 mg/l
Phenols	< .02 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

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ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1790, 1776, 1804, 1818	Linn
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M.W. #3	11/5/81 4/14/82
Collection Date	Type Analysis	Date Reported
W L at 7' 4" pipe height 2' 8"	4' 8" from ground	

Other Sample Information

pH	10.3	Arsenic as As	< .01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.84 mg/l
Total Dissolved Solids	793 mg/l	Cadmium as Cd	< .05 mg/l
Alkalinity, Total as $CaCO_3$	250 mg/l	Chromium as Cr	< .05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	< 0.5 mg/l
Chloride as Cl^-	215.0 mg/l	Mercury as Hg	< .001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	< .01 mg/l
Fluoride	mg/l	Silver as Ag	< .05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	< 0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	1.4 mg/l
Sulfate as SO_4	48.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	99.7 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	176.7 mg/l
Phenols	0.43 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	< 20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	
		Radioactivity	
Remarks:		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

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STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome S. L. F.	1805, 1791, 1777, 1819	Ford
Sampling Location	Laboratory Sample Number	Collector
8/4/81	M. W. #4	4/14/82
Collection Date	Type Analysis	Date Reported

Water level at 11' 3" pipe height 2' 9", 8' 6" from ground level

Other Sample Information

pH	9.6	Arsenic as As	<.01 mg/l
Specific Conductance	umho/cm	Barium as Ba	0.50 mg/l
Total Dissolved Solids	933 mg/l	Cadmium as Cd	<.05 mg/l
Alkalinity, Total as $CaCO_3$	64 mg/l	Chromium as Cr	<.05 mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	<0.5 mg/l
Chloride as Cl^-	220.0 mg/l	Mercury as Hg	<.001 mg/l
Chromate as CrO_4	mg/l	Selenium as Se	<.01 mg/l
Fluoride	mg/l	Silver as Ag	<.05 mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	<0.04 mg/l	Calcium as Ca	mg/l
Phosphate as P	<.2 mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	0.9 mg/l
Sulfate as SO_4	44.0 mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	86.8 mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	64.9 mg/l
Phenols	.10 mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	Ø mg/l
Base Neutrals	<20 mg/l	Lindane	Ø mg/l
Organochlorine Pesticides	mg/l	Endrin	Ø mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	Ø mg/l
Volatile Organics	mg/l	Methoxyclor	Ø mg/l
PCB's	Ø mg/l	Herbicides	Ø mg/l
	mg/l	2,4-D	Ø mg/l
	mg/l	2,4,5-T	Ø mg/l
	mg/l	Silvex	Ø
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

1h

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#1

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch *	740	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81		10/22/81
Collection Date	Type Analysis	Date Reported

Water was clear and flowing swiftly Fld ph 5.7 and 65°F

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
Tran 1,2 dichlorothane	77.1 mg/l	2,4-D	mg/l
trichloroethene	50.6 mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
Remarks:		Alpha	pCi/l
*At 2nd Ave. near Hillwood Apts.		Beta	pCi/l
		Gamma Scan	

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#2

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch	SW-736	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81	Surface Water	10/22/81
Collection Date	Type Analysis	Date Reported

Sampling Point #2

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
Tetrachloroethane	10.5 ug/l	2,4-D	mg/l
	mg/l	2,4,5-T	mg/l
	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

lll

#3

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

Aquadome Ditch	SW-732	Linn
Sampling Location	Laboratory Sample Number	Collector
3/10/81	Surface Water	10/22/81
Collection Date	Type Analysis	Date Reported

Sampling Point #3

Other Sample Information

pH		Arsenic as As	mg/l
Specific Conductance	umho/cm	Barium as Ba	mg/l
Total Dissolved Solids	mg/l	Cadmium as Cd	mg/l
Alkalinity, Total as $CaCO_3$	mg/l	Chromium as Cr	mg/l
Acidity, Total Mineral, as $CaCO_3$	mg/l	Lead as Pb	mg/l
Chloride as Cl^-	mg/l	Mercury as Hg	mg/l
Chromate as CrO_4	mg/l	Selenium as Se	mg/l
Fluoride	mg/l	Silver as Ag	mg/l
Hardness, EDTA as $CaCO_3$	mg/l	Aluminum as Al	mg/l
Nitrate Nitrogen as N	mg/l	Calcium as Ca	mg/l
Phosphate as P	mg/l	Copper as Cu	mg/l
Silica as SiO_2	mg/l	Iron as Fe	mg/l
Sulfate as SO_4	mg/l	Magnesium as Mg	mg/l
Turbidity	JTU	Manganese as Mn	mg/l
Chemical Oxygen Demand (COD)	mg/l	Nickel as Ni	mg/l
Cyanide as CN	mg/l	Potassium as K	mg/l
Oil and Grease	mg/l	Sodium as Na	mg/l
Phenols	mg/l	Zinc as Zn	mg/l
Acid Extractables	mg/l	Pesticides	mg/l
Base Neutrals	mg/l	Lindane	mg/l
Organochlorine Pesticides	mg/l	Endrin	mg/l
Organophosphorous Pesticides	mg/l	Toxaphene	mg/l
Volatile Organics	Ø mg/l	Methoxyclor	mg/l
PCB's	mg/l	Herbicides	mg/l
_____	mg/l	2,4-D	mg/l
_____	mg/l	2,4,5-T	mg/l
_____	mg/l	Silvex	
		Radioactivity	
		Alpha	pCi/l
		Beta	pCi/l
		Gamma Scan	

Remarks:

DH

ADPH-F-SW-3/Rev. 8/81

JH AQUADOR

Rec May 6, 85

CITY OF DECATUR

Sample Analysis by Mabry Engineering Company, Inc.

rec'd from Jack Honeycutt ADEM 3/26/86

Aquadome - Old Landfill
Sampling Location

C. Hunter
Sampled By:

18 March 1985
Collection Date

Monitoring Wells
Type Analysis

30 April 1985
Date Reported

Well No.	Chloride	Conductivity	Iron	Ph
1	18 mg/1	560	0.33 mg/1	7.73
2	31 mg/1	580	6.40 mg/1	7.21
3	63 mg/1	1560	0.62 mg/1	11.52
4	142 mg/1	1400	1.80 mg/1	7.43

Gas Monitoring

East Side (Open Area) - 2% LEL
North Side (Open Area) - 0%
West Side (Open Area) - 2% LEL
South Side (Open Area) - 0%
Brookhaven Middle School Building - 3% LEL

CITY OF DECATUR

Sample Analysis by Mabry Engineering Company, Inc.

Aquadome - Old Landfill
Sampling Location

C. Hunter
Sampled By:

23 October 1984
Collection Date

Monitoring Wells
Type Analysis

26 October 1984
Date Reported

Well No.	Chloride	Conductivity	Iron	Ph
1	10 mg/l	680	0.32 mg/l	7.20
2	47 mg/l	600	5.40 mg/l	6.58
3	8 mg/l	3000	0.20 mg/l	11.76
4	145 mg/l	1600	2.8 mg/l	7.17

Gas Monitoring

East Side (Open Area) - 2% LEL
North Side (Open Area) - 0%
West Side (Open Area) - 60% LEL
South Side (Open Area) - 0%
Brookhaven Middle School Building - 0%

CITY OF DECATUR

Sample Analysis by Mabry Engineering Company, Inc.

Aquadome - Old Landfill Sampling Location		C. Hunter Sampled By:
30 September 1983 Collection Date	Monitoring Wells Type Analysis	28 October 1983 Date Reported

Well No.	Chloride	Conductivity	Iron	Ph
1	22 mg/1	450	0.04 mg/1	8.13
2	56 mg/1	600	7.2 mg/1	7.74
3	148 mg/1	1800	0.09 mg/1	11.50
4	275 mg/1	1130	5.6 mg/1	7.77

Gas Monitoring

East Side (Open Area)	- 0%
North Side (Open Area)	- 0%
West Side (Open Area)	- 0%
South Side (Open Area)	- 0%
Aquadome Building	- 0%
Brookhaven Middle School Building	- 0%

CITY OF DECATUR

Sample Analysis by Mabry Engineering Company, Inc.

Aquadome - Old Landfill Sampling Location		C. Hunter Sampled By:
14 April 1983 Collection Date	Monitoring Wells Type Analysis	19 April 1983 Date Reported

Well No.	Chloride	Conductivity	Iron	Ph
1	21 mg/1	700	0.13 mg/1	6.59
2	49 mg/1	720	4.0 mg/1	6.45
3	1.5 mg/1	5000	0.03 mg/1	12.50
4	197 mg/1	1190	0.2 mg/1	7.17

Gas Monitoring

East Side (Open Area) - 8% LEL
North Side (Open Area) - 0%
West Side (Open Area) - 0%
South Side (Open Area) - 0%
Aquadome Building - 0%
Brookhaven Middle School Building - 2% LEL

STATE OF ALABAMA HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
DIVISION OF SOLID AND HAZARDOUS WASTE

52-05 Aquadome	1976, 1994, 2012, 2030, 1963	Linn/Hubert
Sampling Location	Laboratory Sample Number	Collector
8/11/82	Ditch	9/7/82
Collection Date	Type Analysis	Date Reported
63°F clear.	less than 100 gallons/min. minnows present	~~9/13/82~~ 9/14/82

Other Sample Information

pH	7.5		Arsenic as As	<.01	mg/l
Specific Conductance	340	umho/cm	Barium as Ba	<.5	mg/l
Total Dissolved Solids		mg/l	Cadmium as Cd	<.05	mg/l
Alkalinity, Total as $CaCO_3$		mg/l	Chromium as Cr	<.05	mg/l
Acidity, Total Mineral, as $CaCO_3$		mg/l	Lead as Pb	<.5	mg/l
Chloride as Cl^-	18.0	mg/l	Mercury as Hg	<.001	mg/l
Chromate as CrO_4		mg/l	Selenium as Se		mg/l
Fluoride		mg/l	Silver as Ag		mg/l
Hardness, EDTA as $CaCO_3$		mg/l	Aluminum as Al		mg/l
Nitrate Nitrogen as N	1.50	mg/l	Calcium as Ca		mg/l
Phosphate as P		mg/l	Copper as Cu		mg/l
Silica as SiO_2		mg/l	Iron as Fe	.84	mg/l
Sulfate as SO_4	13.5	mg/l	Magnesium as Mg		mg/l
Turbidity		JTU	Manganese as Mn		mg/l
Chemical Oxygen Demand (COD)	13	mg/l	Nickel as Ni		mg/l
Cyanide as CN		mg/l	Potassium as K		mg/l
Oil and Grease		mg/l	Sodium as Na	8.4	mg/l
Phenols	<.02	mg/l	Zinc as Zn		mg/l
Acid Extractables		mg/l	Pesticides		mg/l
Base Neutrals		mg/l	Lindane	<.002	~~mg/l~~ µg/
Organochlorine Pesticides		mg/l	Endrin	<.009	~~mg/l~~ µg/
Organophosphorous Pesticides		mg/l	Toxaphene	<.40	~~mg/l~~ µg/
Volatile Organics	<10	~~mg/l~~ µg/l	Methoxyclor	<.176	~~mg/l~~ µg/
PCB's		mg/l	Herbicides		mg/l
Trans 1,2 - dichloroethene	19	~~mg/l~~ µg/l	2,4-D		mg/l
		mg/l	2,4,5-T		mg/l
		mg/l	Silvex		
			Radioactivity		
Remarks:			Alpha		pCi/l
			Beta		pCi/l
			Gamma Scan		

hj

ADPH-F-SW-3/Rev. 8/81

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV - ATLANTA, GEORGIA

REPORT

A staff evaluation of a 3M Company "Status Report For Residential Wells Contamination at 3M Company, Decatur, Alabama Site,"[1] September 30, 1980, by C.S. Chow.

APR 21 1981

This report presents only the areas of concern identified during analysis of the 3M Report. It is not a definitative description of the problems at the site.

BACKGROUND

Since 1960 3M Company has owned and operated a chemical manufacturing facility northwest of Decatur, Alabama, on the southern bank of the Wheeler Reservoir.

Under cover of a letter dated October 16, 1980 (transmittal letter) 3M submitted an investigative report it had promised to provide EPA at a January 25, 1980, meeting in Atlanta. The purpose of that meeting was for 3M to present its response to a 308 letter dated December 21, 1979. EPA agreed to defer to the 3M study with the understanding it was intended to determine the scope and areal extent of groundwater contamination on the site.

By letter dated February 18, 1980, 3M outlined for EPA the nature and scope of 3M's proposed site investigation. EPA evaluated that proposal and responded by letter dated April 16, 1980, advising 3M of certain weaknesses in the 3M approach that might prevent accomplishment of the study's purpose. 3M, however, proceeded to conduct its investigation independently of EPA in accordance with its own plan of study. It did submit, however, a progress report to EPA dated July 29, 1980.

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[1] Although labeled a "status report", the transmittal letter states that it "concludes [3M's] study of the residential wells contamination." Thus, it is being treated as 3M's final report to EPA on its investigation of the site and is referred to herein as the 3M Report.

The 308 letter had been prompted by EPA analytical results from drinking water well samples taken on the 3M Decatur, Alabama property that indicated high concentrations of 1,1,1-trichloroethane and 1,1-dichloroethylene. Follow-up sampling to define the areal extent of this contamination was undertaken by SAD in late August, September, and October, 1979. The analytical results were presented in an SAD Report dated January 23, 1980, which suggested that the contamination was confined to 3M property. During that sampling EPA discovered a mud flat on the 3M property which was also sampled. Analysis of that sample indicated detectable concentrations of some 18 Priority Pollutants in the groundwater. The water table appeared to be essentially coterminous with the ground surface in the mud flat.

At the January 25, 1980, meeting 3M admitted burying chemical wastes in an abandoned landfill immediately adjacent to the mud flat. Subsequently, EPA conducted an archival search of aerial imagery and a literature search for relevant geological data. These inquiries strongly suggest the site is not suitable for land disposal of chemical wastes. EPA did not, however, conduct further investigation pending receipt of the 3M study findings.

Following receipt of the 3M Report on October 20, 1980, 3M was notified by letter dated November 25, 1980, that EPA had questions about the 3M conclusions but wanted to make a detailed review prior to any decision or further discussions with 3M.

ANALYSIS AND COMMENT

Several concerns surfaced during the EPA review of the 3M methodology and conclusions.

I.

Well Contamination

According to the transmittal letter, the technical information presented by the 3M study supports the Company's contention that the residential well contamination "is not an ongoing problem or a result of 3M's present or past manufacturing activities." Evaluation of all data, however, does not support this conclusion. On the contrary, it indicates two likely sources for the well contamination by 1,1,1-trichloroethane and 1,1-dichloroethylene that were not sufficiently explored.

One possible source is indicated by the fact that the chemical manufacturing facility has had major problems with leaks from deteriorated manholes and drain systems which have percolated into the ground beneath the plant. In addition, spillage to the ground has occurred from the unloading and transfer of these solvents to

bulk storage tanks. The stratigraphy of the area indicates a good possibility that regolith and fractures in the strata could transport the solvent contaminated wastewater or spillage down into the highly permeable Tuscumbia Formation (a major, highly productive aquifer) into which the contaminated wells were drilled.

The second potential source is the now closed chemical waste landfill and lagoon area, immediately adjacent to the mud flat, where unlined evaporation ponds were once used to dispose of saltwater brines and solvents. Considerable quantities of drummed chemical waste have been landfilled in that area. Although 3M states this area is located on "naturally occurring clay soils," soil boring logs from adjacent areas show the presence of lenses of permeable sand and gravel which could provide a ready conduit for contaminants to enter the Tuscumbia Formation. The presence of a doline (sink hole) adjacent to the fill area also demonstrates the connective potential for transmission of groundwater throughout the extensive Tuscumbia Formation.

II.

The 3M report itself draws several other conclusions and makes recommendations, set forth in Section 7 of the Report, that warrant special comment, which is presented in the same order as in the 3M Report.

A.

7.a. Soil Borings

> "The ten soil boring holes which are located north of the manufacturing facilities at 3M's Decatur site were used to explore the source of contamination. The soil boring results did not find any significant concentrations of 1,1,1-trichloroethane and 1,1-dichloroethylene in the water. During the soil boring, no standing or running water was observed. From the results of soil boring, it suggests that no contamination is derived from the manufacturing facilities through the soil boring area.".

The lack of "significant" contamination in the soils does not conclusively eliminate the plant as a source for the well contamination. The densities of 1,1,1-trichloroethane and 1,1-trichloroethylene are greater than the density of water. Thus, a contaminant plume, being denser than water, would tend to migrate downward. Accordingly, the ten bore holes, which in fact showed measurable amounts of 1,1,1-trichloroethane and 1,1-dichloroethylene, may have sampled only the upper extremities of an extensive contaminant plume which has penetrated deep into the

Tuscumbia Formation. Since no observation wells were drilled to the levels of the residential wells (e.g., 80 ft. to 150 ft.), the source and areal extent of the well contamination could not be identified by these ten bore holes.

B.

7.b. The Constant Ratio of 1,1,1-trichloroethane to 1,1-dichloroethylene

> "The ratio of 1,1,1-trichloroethane/1,1-dichloroethylene indicates that the contaminants shown in these three wells come from a common source. The common source is believed to be a finite supply of contaminant. This finite supply of contaminant is verified by the downward trend of total concentrations during the two week pumping test. If the source were a continuous leak from manufacturing or other areas, the total levels of 1,1,1-trichloroethane and 1,1-dichloroethylene would remain constant."

The downward trend in concentrations during the two week pumping test is not necessarily indicative of a finite supply of contaminant. Dilution by recharge of the area within the cone of influence would tend to lower the contaminant concentration over time during continuous pumping. Also the apparent decrease in contamination from August, 1979, through September, 1980, cannot be established without rainfall data to eliminate the possibility of fluctuations due to additional recharge. In fact, analysis of the reservoir elevations supplied by 3M suggests more rainfall in 1980 than in 1979. It does appear, however, that the 5 to 1 ratio of 1,1,1-trichloroethane to 1,1-dichloroethylene indicates the contaminants in the residential wells came from the same common source, which may or may not be finite. Although 3M tests on the raw materials used at the plant did not show a 5 to 1 ratio, the 3M analysis of the water samples taken from bore hole #12 in the plant solvent storage area shows a concentration ratio of 5 to 1 for 1,1,1-trichloroethane to 1,1-dichloroethylene. This strongly suggests the contamination source may be associated with the plant. The resolving of this question is of paramount importance.

C.

7.e. Landfill As Source of Well Contamination

> "There is no indication of well contamination from the inactive closed landfill. However, we propose to eliminate that as a possible source of leachate to groundwater."

Although there is no direct indication of well contamination from the closed chemical landfill, there is evidence of contaminated surface and sub-surface water emanating from the inactive dump. This leachate, which contains a plethora of organic contaminants, appears to discharge via a drainage slough into the Wheeler Reservoir. These leachate streams need to be further defined for origin and should be chemically characterized.

D.

7.f. Capping The Landfill

> "The most effective and positive way to prevent leachate formation would be to form an impervious layer on the top of the landfill site. No rainfall will percolate through the landfill area, therefore, no leachate will be produced. Lysimeters will also be installed to demonstrate no leachate production. 3M has determined that securing the landfill by capping and contouring with clay plus lysimeter monitoring installation is the best way to prevent leachate production from the closed landfill site located at 3M Company, Decatur plant site. We are proceeding with this alternate and propose to provide engineering drawings for EPA review on December 30, 1980, and complete the program by June 30, 1981."

Securing the inactive chemical waste landfill utilizing a clay cap may or may not prevent any future leachate generation. Until the hydrogeologic conditions underneath and surrounding the fill are better defined, the potential for groundwater contamination still exists. For example, waste may currently be buried below the water table and, therefore, be subject to continuous leaching and exchange with the surrounding aquifer. The closure of the inactive landfill as described above cannot meet RCRA criteria without an adequate groundwater monitoring system. The lysimeters are not sufficient by themselves to demonstrate the site has been properly closed and, unless they are carefully installed, can actually contribute to ground water contamination.

III. Monitoring Recommendations

The recommendations which follow are general and intended to be illustrative of a minimal monitoring program; a plan of study and drilling specifications should be designed by a qualified hydrogeologist based on site specific considerations that need to be incorporated into the monitoring program if its primary goal is to be achieved. That goal is to identify conclusively all sources of groundwater contamination and to define the areal extent of same.

To enhance the credibility of the monitoring program, the hydrogeologist should be a third party consultant with no prior connection with 3M Company.

A. Inactive Chemical Waste Landfill

A monitoring system which meets the RCRA criteria of 40 C.F.R. Part 267.23 should be installed at the inactive chemical waste landfill site. The monitoring system should be installed under the direction of a qualified hydrologist, preferably by an impartial outside consultant. At a minimum, one well should be placed upgradient from the landfill, and at least three wells should be downgradient, that is, between the landfill and the reservoir. At least two of the downgradient monitoring wells and the upgradient well should be cased and grouted to the Tuscumbia Formation in order to avoid creating additional conduits for downward contamination flow. These wells should be screened to a depth adequate to intercept any possible leachate plume. At least one downgradient monitoring well should be cased and grouted to the water table and screened to the top of the Tuscumbia Formation, or for ten feet, whichever is the greater length.

B. Chemical Manufacturing Plant

In order to clearly establish whether the manufacturing facility is now, or has been, a source for the 1,1,1-trichloroethane and 1,1-dichloroethylene contamination of the residential wells and greater Tuscumbia aquifer, a monitoring system should be installed around the plant site. At least four monitoring wells should be placed at the plant site. An upgradient well would be particularly valuable, as it would show if contamination originates in the plant area or further upgradient. At least three wells should be located downgradient from the plant area, cased and grouted to the Tuscumbia Formation, and screened to a suitable depth to be determined by the on-site hydrogeologist.

C.

Sampling Schedule

Each of these wells should be sampled contemporaneously once every thirty (30) days for a period of at least one year. The depth to the water table at each well should be measured and recorded each time the well is sampled. Each sample should be analyzed for the full range of Priority Pollutants and heavy metals. Daily rainfall at the plant and the river elevation should be recorded also for comparison with the analytical results and the water depth at each well to aid definition of groundwater movement.

IV. Human Health Concerns

The importance of preventing contamination of the Tuscumbia Formation by organic, chemical compounds cannot be overemphasized. For example, according to the Criteria Document for dichloroethylenes, ambient drinking water concentrations should be zero for maximum protection of human health. The Cancer Assessment Group has determined that a concentration of 2.8 ppb would cause one excess cancer per 10^5 people. Concentrations measured on-site ranged from 24 ppb to 125 ppb. Thus, continued generation of a wide variety of chemical contaminants by 3M at this location could threaten the use of the Tuscumbia Formation for private drinking water.

V. Conclusions

A. The source(s) and areal extent of the organic chemical contamination of groundwater in the vicinity of the 3M plant has not been adequately investigated.

B. The closure plan for securing of the inactive chemical landfill is not supported by adequate information describing the profile of soils and the hydrogeologic conditions that is sufficiently specific to the site to permit the design of a closure plan which will achieve a reasonable measure of success.

RECOMMENDATION

Further EPA investigation is needed. Section 3013 of the Solid Waste Disposal Act, as amended, seems to offer the preferable legal approach; however, the landfill also may be subject to remedial action pursuant to the treble damage provision of Superfund.

A. R. HANKE
Environmental Scientist
Alabama/Georgia Hazardous Waste Unit
Compliance Branch, Enforcement Division

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
EPS FORM 3012-III

INDUSTRIAL NARRATIVE SHEET

1. Site Identification:

Site number: ALD980842512

Site name: Aquadome

Site county: Morgan

2. Industrial Narrative Summary:

Company Name: City of Decatur/Morgan County

Address: P. O. Box 488
Decatur, AL 35602

Telephone No.: 205-353-5414

Contact: N/A

Discussion: The Aquadome Park is an old dump site, closed over 20 years ago, covering a one square block area. The Aquadome Indoor Pool and Brookhaven Middle School are built on the old dump. Dichloroethane and trichloroethane are halogenated solvents which are showing up in ditch water traversing the middle of the site and in the monitoring wells. Methane gas is present at low levels in the buildings' basements. Children have been observed playing in the aforementioned ditch which is in the middle of the park schoolyard playground. Full priority pollutant scan and metals is recommended.

3. Disposition:

The same contaminants are present here (halogenated solvents) as at the 3M Decatur site on Tennessee River (ALD004023164). It appears that 3M Decatur may have contributed to this site also.

4. Comments:

EPA region IV is evaluating situation at 3M Decatur; refer to those files for discussion of (and similarity to) that situation.

ENVIRONMENTAL PROTECTION SYSTEMS, INC.

Alabama RCRA 3012 Site Ranking Scheme
EPS Form 3012-V

Site Name Aquadone
Site Number ALD980842512

Preliminary Assessment Ranking Scheme to Determine Which Sites Merit Further Action.

(Select one answer for each of the following seven questions)

1.	Are Hazardous Substances Present?		
	A. Confirmed on site!	10 points	10
	B. Suspected at site!	5 points	
	C. It is unknown!	2 points	
	D. No hazardous substances	0 points	
	E. RCRA facility only!	0 points	
2.	Is There a Pollution Dispersal Pathway?		
	A. Direct to surface and/or groundwater.	5 points	5
	B. Indirect to surface and/or groundwater.	4 points	
	C. Suspected to surface and/or groundwater.	3 points	
	D. Not known for sure.	2 points	
	E. No pathway.	0 points	
3.	Characteristics of Human Population?		
	A. High density.	5 points	
	B. Medium density.	4 points	4
	C. Low density.	3 points	
	D. No population.	2 points	
4.	Characteristics of Natural Environment?		
	A. Critical habitat including endangered species, etc.	5 points	
	B. Sensitive habitat.	3 points	
	C. Common less sensitive habitat.	2 points	2
5.	How is Human Population Affected By Site?		
	A. Public utility of drinking water from site.	5 points	
	B. Direct public access to site.	4 points	4
	C. Public access to affected surface water.	3 points	
	D. Only potential for human population contact.	2 points	
	E. Low or no potential for contact.	1 point	
6.	Facility Management Practices at Site?		
	A. Site actively supervised and managed currently with monitoring reports and other permit and report requirements.	1 point	
	B. Site inadequately managed records not up-to-date.	3 points	

C. Site not currently managed or regulated. — 4 points
D. Abandon site. — 5 points — 5

7. Potential Responsible Parties for Site Operations?
A. Controlling party identified and accepts responsibility for site. — 1 point — 1
B. Suspected controlling party identified but does not accept responsibility for site. — 4 points
C. No responsible party available. — 5 points

Ranking Score =

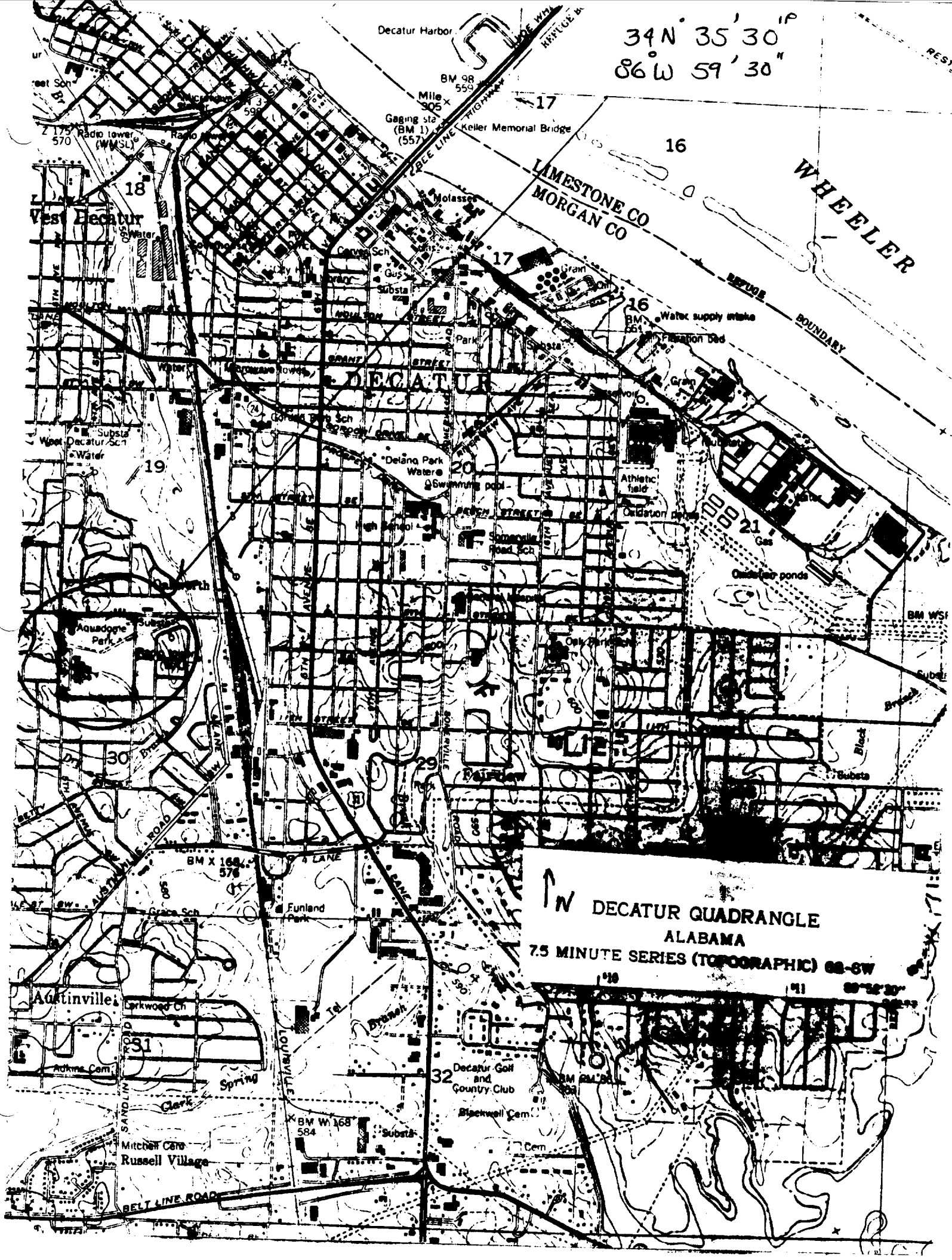
$$\frac{10}{\#1}\left[\times \frac{5}{\#2} + \frac{2}{\#4} + \left(\frac{4}{\#3} \times \frac{4}{\#5}\right) + \frac{5}{\#6} + \frac{1}{\#7}\right]$$

TABLE 1. Ranking Assessment

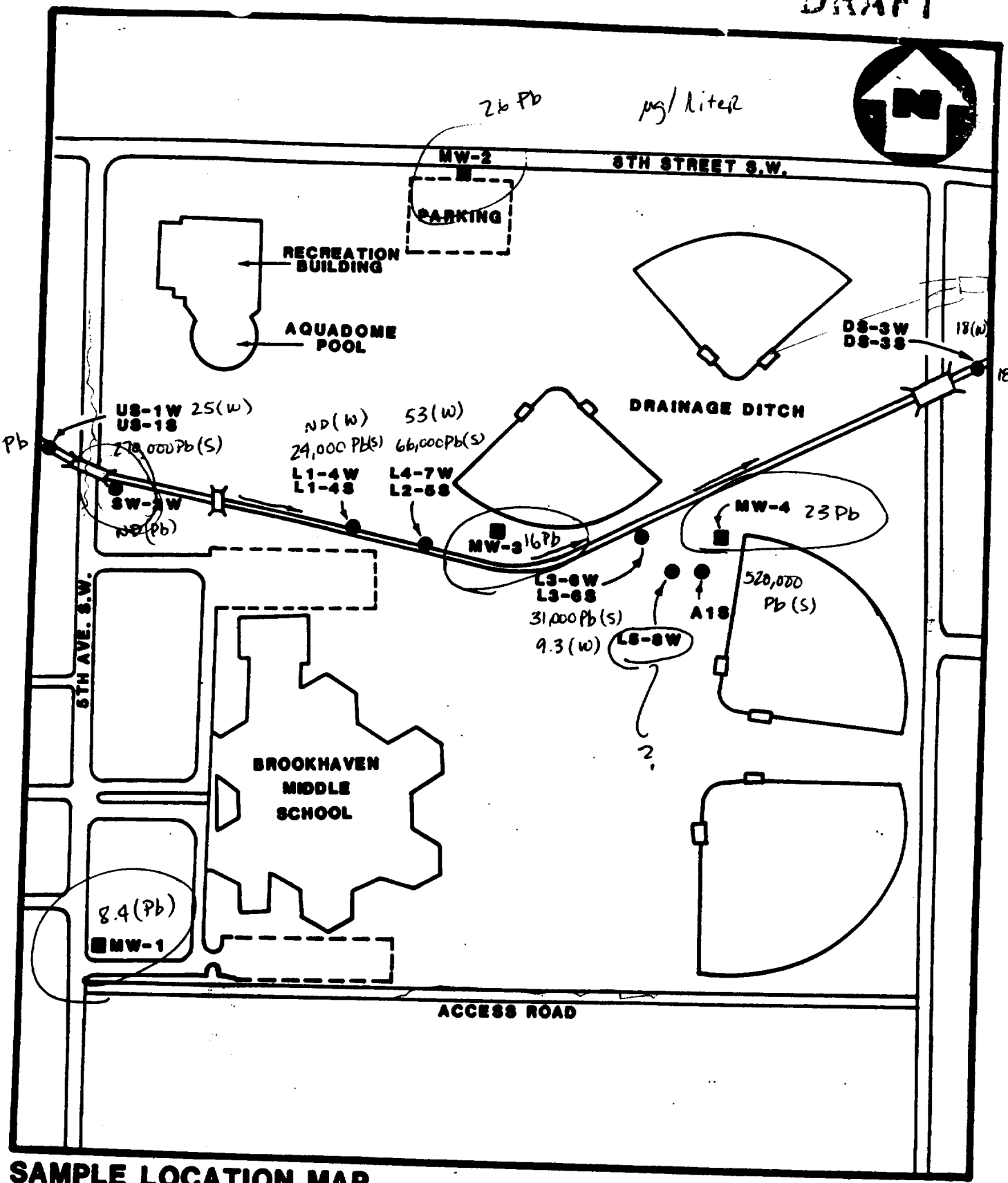
NUMERICAL RANGE	PRIORITY ASSESSMENT
0-50	NONE
50-150	LOW
150-300	MEDIUM
300-450	HIGH

Ranking Score: 290

Priority Assessment: MEDIUM


34N 35'30"
86°W 59'30"
Decatur Harbor
BM 98
559
Mile
305
Gaging sta
(BM 1)
(557)
Keller Memorial Bridge
17
16
LIMESTONE CO
MORGAN CO
WHEELER
REFUGE BOUNDARY
Radio tower
(WMSL)
18
West Decatur
Water
Molasses
Carver Sch
Gas
Substa
Grain
Water supply intake
Filtration bed
Park
Microwave towers
DECATUR
Gordon Park Sch
West Decatur Sch
Water
19
Delano Park
Water
Swimming pool
20
Athletic field
Oxidation ponds
High School
Somerville Road Sch
21
Gas
Oxidation ponds
Oakworth
Aquadome Park
Oak Park Sch
BM WSF
Black Branch
30
29
Fairview
Substa
BM X 168
576
4 LANE
Funland Park
Grace Sch
Austinville
Larkwood Ch
31
Adkins Cem
Spring
Clark
32
Decatur Golf and Country Club
Blackwell Cem
BM W 168
584
Substa
Mitchell Cem
Russell Village
BELT LINE ROAD
LOUISVILLE
SANDLIN ROAD
AUSTINVILLE ROAD
DECATUR QUADRANGLE
ALABAMA
7.5 MINUTE SERIES (TOPOGRAPHIC) 68-SW

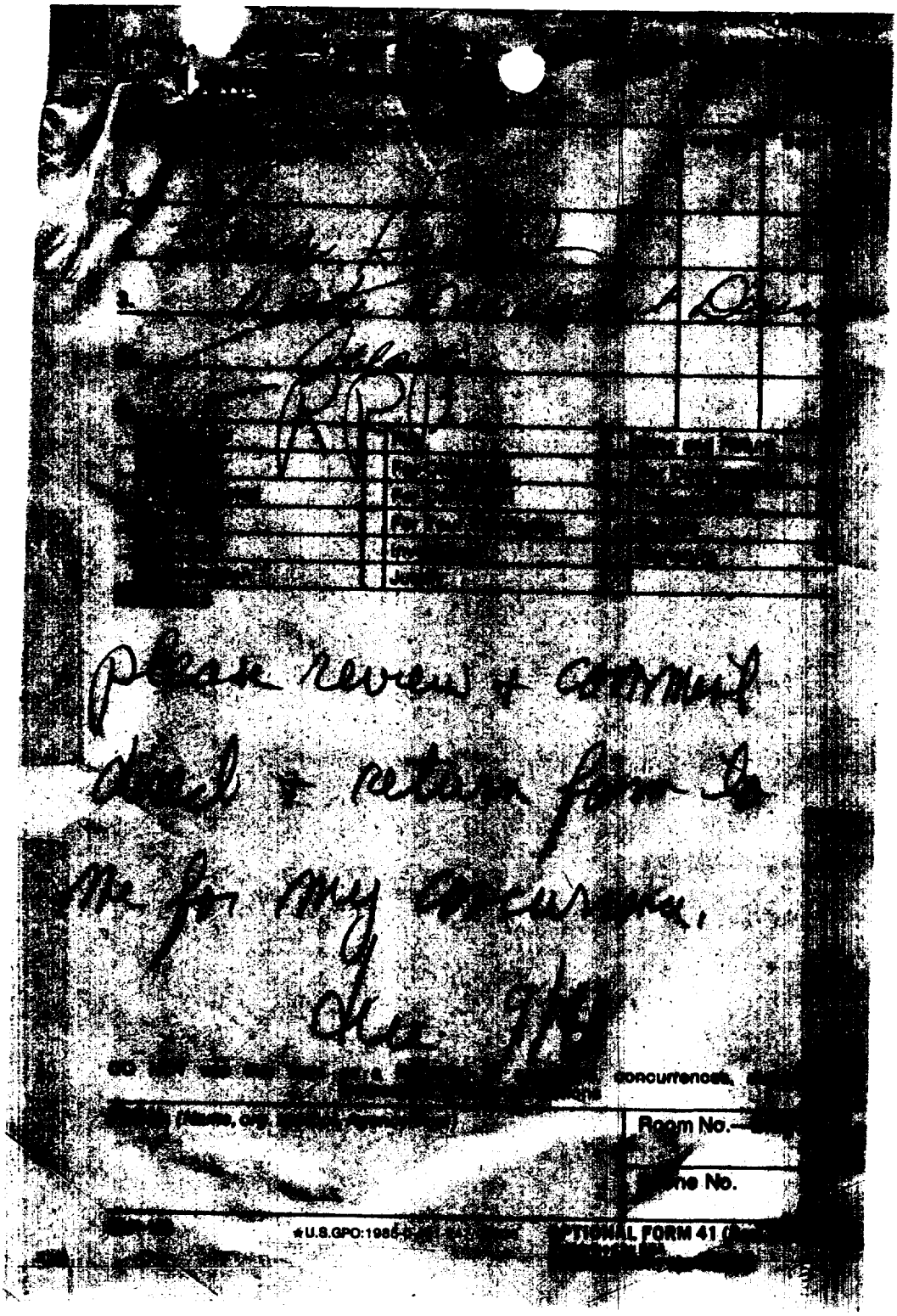
DRAFT



SAMPLE LOCATION MAP
AQUADOME SITE
DECATUR, ALABAMA

FIGURE 3

NUS CORPORATION
A Halliburton Company



please review + comment
direct + return form to
me for my concurrence.

Dec 9/89

concurrences

Room No.

Phone No.

★U.S.GPO:1985-

OPTIONAL FORM 41

~~[illegible]~~ Ray Shirland

SUPERFUND BRANCH
ROUTE SLIP

FROM: RICHARD D. STONEBRAKER
CHIEF, SFB

NAME		REVIEW
RICHARD GREEN		
JON JOHNSTON		
AL HANKE		
VACANT		
GEORGE MORIN		
JAN ROGERS		
FRED STROUD		
HENRY HUDSON		
RUSSELL WRIGHT		✓
RALPH JENNINGS		
JIM ORBAN		
BERT COLE		

NOTE: TO CHECK INDICATE NEXT PERSON

TO REVIEW PACKAGE/LETTER.

REMARKS: See Note on Route Slip from Harlow - Aug 9/4

DATE ROUTED: 8-11

Notes: Aquadome

Owners: City of Decatur (205) 355-7410

Contaminants: inorganics: copper
nickel
lead
zinc

organics: toluene
bis (2-ethylhexyl) phthalate
tetrachloroethene
trichloroethene
trans-1,2-dichloroethane

estimated values of volatile organics comp. (VOC's)
pesticides, PCB's

UNSCANNABLE

MEDIA

(PHOTOGRAPHS)