

# **MAY 2002 STATUS REPORT**

## **COLISEUM BOULEVARD PLUME INVESTIGATION**



**DEPARTMENT OF TRANSPORTATION**

**June 26, 2002**

**Submitted to:  
The Alabama Department of Environmental Management  
Montgomery, Alabama**



**May 2002  
Status Report**  
Coliseum Boulevard Plume Investigation

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*Water Level Measurements*

- May 16 and 17, 2002: Depths to ground-water were measured in piezometers and monitoring wells associated with the Coliseum Boulevard Plume Investigation. Ground-water elevations on May 16 and 17, 2002 are provided in Tables 1a through 1e and are shown on Plates 1 and 2. Ground-water elevations on May 16 and 17, 2002 in the 100-series "shallow zone" monitoring wells and piezometers are shown on Plate 1. Ground-water elevations in the 200-series "shallow zone" monitoring wells are shown on Plate 2. The locations of the monitoring wells and piezometers are shown on Figure 1.

*Surface Water Sampling*

- May 20, 2002: Surface-water samples were collected along the main and west branches of the Kilby Ditch and from two storm sewer manholes (SW-15 and SW-16). Locations from which the surface-water samples were collected are shown on Figure 2. The surface water samples were analyzed for VOCs (volatile organic compounds). Results of these analyses are provided in Table 2. On May 20, 2002, samples were collected and analyzed from 15 of the 17 surface water locations (SW-1, SW-2A, SW-2B, SW-3, SW-5, and SW-7 through SW-16) that are routinely sampled at the site. Surface water sample locations SW-4 and SW-6 were dry on May 20, 2002. The laboratory reports for the analyses of the surface water samples are provided in Attachment A.



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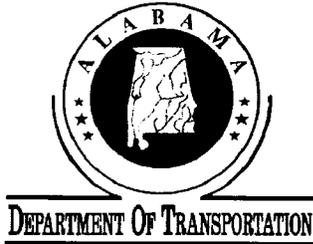
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#### *Soil/Sludge Management and Water Treatment*

- May 1, 2002: Composite soil/sludge samples were collected from two roll off boxes, which contained investigation derived waste generated during field activities for the Addendum 03 and 06 Work Plans. The samples were analyzed for total trichloroethylene (TCE) and VOCs. Neither TCE nor VOC compounds were detected in the samples. Laboratory reports of the analyses of the soil/sludge samples are provided in Attachment A. The investigation derived waste will be disposed of at the Salem Waste Disposal Center in Lee County, Alabama.
- May 10, 2002: Water accumulated during decontamination of equipment, purging, and sampling during the months of March and April 2002, was treated through a liquid-phase carbon filter treatment system at the ALDOT staging area. On May 10, 2002, two new carbon filter drums were installed at the treatment system. The third position drum was moved to the first position. The two newly installed drums were placed at the second and third positions. A total of 988 gallons of water were treated (see Table 3). The treated water was discharged into the sanitary sewer at the staging area. Samples were collected on May 10, 2002, from water discharged from the first carbon filter to monitor for breakthrough and the third carbon filter to monitor for compliance with the Montgomery Water Works and Sanitary Sewer Board discharge requirements. The water samples were submitted for VOC analyses. Results of these analyses are provided in Table 3. Laboratory reports of the analytical results for samples collected on May 10, 2002 are provided in Attachment A.

#### *Sampling of the Continuous Multi-Channel Tubing (CMT) Wells*

- May 6 and 7, 2002: Ground-water samples were collected from CMT wells #1 and #2. The construction characteristics of the two CMT wells are shown on Table 4. Prior to the collection of the ground-water samples, the depth to water in each port was measured (see Table 5). After measuring depths to water, each port was purged using a peristaltic pump. About three port volumes (about gallon) of ground-water were purged from each port of CMT well #1 and about 3 gallons of ground-water were purged from each port of CMT well #2 prior to sample collection. Additional water was purged from CMT well #2 because it had not been sampled since it was installed. During sample collection, the tubing from the pump was disconnected and withdrawn from the port. The ground-water samples were collected by allowing the water from the bottom end of the tubing (end previously inside the port) to flow into the VOC vial. The ground-water



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samples were transported, on ice, to TTL's laboratory, and analyzed for VOCs. Historical results of the analyses for VOCs in the ground-water samples from the CMT wells are provided in Table 6. Review of Table 6 indicates that the ground-water samples collected on April 4 and 5, 2002, from CMT well #1 and ground-water samples collected on May 6 and 7, 2002 from CMT wells #1 and #2 contained greater TCE concentrations than the ground-water samples collected from the wells on February 21, 2002. The increase of TCE concentrations in the April and May ground-water samples is most likely due to the greater volume of water (most of which was introduced during well construction) removed during purging. Laboratory reports of these analyses are provided in Attachment A.

#### *Ambient Air and Soil Vapor Monitoring (Addendum 09-Revision 1)*

- May 28-31, 2002: Field activities to set up for sampling ambient air and soil vapor at the first set of fifteen houses from which access agreements were obtained. Surveys were performed at each of the fifteen houses to select locations to collect the air and soil vapor samples.

#### *Addendum 07 (Revision 1)*

- May 30, 2002: As part of a revision to Addendum 07, which was submitted on May 29, 2002, a piezometer (identified as PZ17) was constructed inside the Montgomery Zoo about 500 feet southeast of piezometer PZ14. The piezometer was constructed for installation of a mini-troll to measure water level fluctuations over time. The location of the piezometer is shown on Figure 1. A CME -75 truck-mounted drill equipped with 4 ¼-inch ID hollow-stem augers was used to drill a borehole to 24 feet below land surface. The piezometer was constructed by inserting about ten-feet of two-inch diameter 0.010-inch slotted PVC screen connected to PVC riser inside the borehole. A natural sand pack caved from the well tip to within about 2 feet above the screen. A two-foot bentonite plug was placed on top of the natural sand pack. A cement /bentonite grout was placed on top of the bentonite plug. The piezometer was completed with a flush-mounted road box and concrete pad. The boring log and corresponding construction diagram of the piezometer is provided in Attachment B.



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#### *Low-Lying Area (Addendum 04 Work Plan)*

- May 22, 2002: Soil/sediment samples were collected at 8 "low-lying area" locations identified as locations I through P (see Figure 3). Soil/sediment samples were collected at various depths ranging from 5 to 12 inches below land surface. Surface water samples were collected at 6 of the 8 locations. No surface water sample was collected at locations M or O because though the soil was saturated there was no standing water present. Based on the sampling plan, the remaining 8 "low-lying area" locations (identified as A through H) were not sampled this quarter. The soil/sediment and surface water samples were analyzed for VOCs. The results of the analyses for VOCs in the soil/sediment and surface water samples are provided in Tables 7 and 8, respectively. Concentrations of TCE in soil were only detected in 2 samples collected (locations I and P), and the concentrations have decreased since last collected in February 2002. Toluene and/or xylenes were detected in 5 of the samples collected (locations I, J, K, M, and O) but are not attributed to the Coliseum Boulevard Plume. Concentrations of TCE in the surface water samples have decreased in all samples collected on May 22, 2002. Laboratory reports of the analyses are provided in Attachment A.

#### *Quality Assurance/Quality Control*

- During field activities in May 2002, quality assurance/quality control measures were performed. Equipment rinse samples were collected and trip blank samples accompanied water samples that were submitted for analyses for VOCs. Results of the analyses for VOCs in the rinse and trip blank samples are provided in Table 9. Laboratory reports of the analyses are provided in Attachment A.



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**TABLES**

**Table 1a.** Ground-water elevations for ALDOT wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (ALDOT Central Complex)								
	ALDOT MW1	ALDOT MW2	ALDOT MW3	ALDOT MW4	ALDOT MW5	ALDOT MW6	ALDOT MW7	ALDOT MW8	ALDOT MW9
	218.42	218.76	211.01	213.79	218.06	218.76	217.97	218.62	216.97
Date of Measurement	Ground-Water Elevation (ft. AMSL)								
5/4/01			196.61						
5/16/01	196.52	196.97	196.50	196.29	195.95	195.66	196.03	196.41	196.76
6/14/01	196.37	196.66	196.32	196.10	195.86	195.72	197.02	196.51	196.49
6/26/01			196.33						
7/13/01	196.55	196.80	196.44	194.32	196.03	195.81	196.10	196.61	---
8/9/01	196.33	196.54	196.24	196.04	195.79	195.63	195.96	196.43	196.37
9/7/01	196.31	196.43	196.17	195.99	195.78	195.72	195.74	196.47	196.34
10/3/01	196.08	196.19	195.91	195.79	195.59	195.50	195.53	196.25	196.16
10/31/01	196.39	195.86	195.60	195.19	195.23	195.16	195.21	195.92	195.80
12/3/01	195.32	195.39	195.20	195.01	194.86	195.25	194.95	195.52	195.33
12/14/01			195.09						
12/27/01	195.06	195.19	195.05	194.89	194.70	195.68	194.70	195.30	195.09
1/11/02			194.97						
1/21-22/02	194.81	195.01	194.94	194.78	194.48	195.58	194.46	195.32	194.92
2/14/02			195.32						
2/25/02	195.37	195.34	195.36	195.20	194.95	194.71	195.02	195.35	195.10
3/19-20/02	195.46	195.46	195.47	195.29	195.03	194.70	195.13	195.43	195.16
4/18/02	195.67	195.73	195.63	195.49	195.21	194.91	195.29	195.66	195.48
5/16/02	195.38	195.50	195.32	195.16	194.93	194.71	194.98	195.43	195.27

Note:

<sup>1</sup> Feet above mean sea level.

<sup>2</sup> ALDOT monitoring well MW-9 was not accessible because the gate was locked.

**Table 1b.** Ground-water elevations for Piezometers; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (Piezometers)									
	PZ1	PZ2	PZ3	PZ4	PZ5	PZ6	PZ7	PZ8	PZ9	PZ10
	220.93	207.20	220.50	216.19	204.72	212.41	206.20	209.51	205.12	213.93
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
5/4/01										
5/16/01	196.81	197.44	196.75	190.34	196.62	195.64	197.21	196.81	194.69	195.93
6/1/01										
6/14/01	196.82	196.84	196.65	191.22	196.81	---2	196.84	193.16	194.61	195.73
6/26/01										
7/13/01	196.67	197.00	196.56	191.07	197.15		197.16	196.87	194.96	195.79
7/26/01										
8/9/01	196.56	197.43	196.35	190.83			196.54	199.08	194.15	195.44
8/24/01										
9/7/01	196.56	196.35	196.50	190.84	196.18		196.19	195.64	193.63	195.28
9/20/01										
10/3/01	196.17	195.70	196.15	190.39	195.59		195.58	194.95	193.06	194.97
10/15/01										
10/31/01	195.39	195.25	195.78	187.99	195.07		195.05	194.26	192.40	194.53
12/3/01	---3	191.50	195.49	188.28	194.62		194.69		191.81	193.91
12/14/01										
12/27/01	195.01	194.99	195.07	188.93	194.82		194.76	193.90	191.75	193.63
1/11/02										
1/21-22/02	194.83	191.85	195.00	188.47	194.88		194.80	193.21	191.37	193.52
2/14/02										
2/26/02	193.88	191.89	194.96	188.48	195.23		194.85	193.16	187.84	191.78
3/19-20/02	195.13	195.68	195.13	188.57	195.54		195.48	194.72	192.56	193.72
4/17/02	195.50	195.99	195.44	188.97	195.75		195.69	195.09	192.95	194.20
5/16-17/02	195.32	195.32	195.22	188.87	193.66		196.70	194.43	192.31	193.95

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**Table 1b.** Ground-water elevations for Piezometers; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Well Identifier (Piezometers) - Continued										
Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	PZ11	PZ12	PZ13	PZ14	PZ15	PZ16				
	211.76	212.26	207.95	204.54	220.37	193.44				
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
5/4/01						187.34				
5/16/01	190.85	197.03	195.42	197.37	184.08	187.15				
6/1/01						187.10				
6/14/01	190.77	197.21	195.77	197.01	183.91	184.56				
6/26/01						187.45				
7/13/01	190.95	197.35	195.97	197.13	183.79	187.58				
7/26/01						187.27				
8/9/01	190.45	196.68	198.52	196.56	183.66	187.24				
8/24/01						187.17				
9/7/01	190.08	196.12	198.35	196.03	183.41	187.09				
9/20/01						186.95				
10/3/01	189.69	195.26	195.00	195.19	183.12	186.78				
10/15/01						188.29				
10/31/01	189.10	194.62	194.75	194.63	182.59	186.70				
12/3/01	188.42	194.36	194.65	194.44	182.02	186.75				
12/14/01						187.04				
12/27/01	188.08	194.46	194.95	194.62	181.54	186.99				
1/11/02						186.93				
1/21-22/02	188.15	194.63	194.85	189.30	181.82	187.03				
2/14/02						187.59				
2/26/02	185.44	192.32	188.01	189.58	176.98	184.42				
3/19-20/02	188.14	195.21	195.50	195.31	180.72	187.19				
4/17/02	188.66	195.55	195.38	195.57	181.08	187.10				
5/16-17/02	188.32	194.79	195.01	194.76	181.03	186.69				

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**Table 1b.** Ground-water elevations for Piezometers; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Well Identifier (Piezometers) - Continued										
Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	PD1	PD2	PD3	PD4	PD-101	PD-102	PD-103	PD-104	PD-105	PD-106
	205.97	201.74	202.52	202.15	200.76	205.52	208.29	200.01	199.20	199.59
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
5/4/01	196.37	196.02	192.62	194.43	193.51	193.02	193.99	188.86	190.74	185.14
5/16/01	196.17	195.83	192.42	194.25	193.39	192.72	193.69	194.12	190.60	184.98
6/1/01	196.03	195.66	192.35	194.13	193.36	192.52	193.45	188.86	190.68	185.06
6/14/01	196.03	195.73	188.28	194.20	193.39	189.17	189.54	188.86	190.60	184.62
6/26/01	196.07	195.73	192.56	194.23	193.47	192.69	193.64	188.86	190.63	185.09
7/13/01	196.86 <sup>4</sup>	195.98	192.77	194.40	193.66	191.99	193.98	191.30	190.77	189.30
7/26/01	197.03 <sup>4</sup>	195.74	192.49	194.54	193.71	195.79	193.90	188.99	190.78	189.19
8/9/01	195.98	195.60	192.37	194.16	193.41	195.54	Dry	189.85	190.51	182.96
8/15/01			192.78 <sup>5</sup>	194.44 <sup>5</sup>	193.70 <sup>5</sup>	199.44 <sup>5</sup>		188.97 <sup>5</sup>	190.85 <sup>5</sup>	
8/21/01	--- <sup>6</sup>	195.56 <sup>7</sup>	192.42 <sup>7</sup>	194.17 <sup>7</sup>	193.61 <sup>7</sup>	195.70 <sup>7</sup>	193.59 <sup>7</sup>	188.81 <sup>7</sup>	188.05 <sup>7</sup>	185.10 <sup>7</sup>
8/24/01	195.91	195.55	192.39	194.15	193.40	192.53	193.51	188.85	190.48	185.12
9/7/01	195.79	195.45	192.27	193.95	193.48	192.48	193.54	188.86	190.60	185.29
9/20/01	195.62	195.28	192.14	193.92	193.24	192.29	193.14	188.87	190.36	185.13
10/3/01	195.45	194.94	191.98	194.05	193.27	192.13	202.94	188.96	190.48	185.31
10/15/01	195.37	195.09	191.92	193.72	193.01	191.93	192.84	191.16		188.59
10/31/01	195.16	194.84	191.74	193.55	192.86	191.76	192.69	188.84	190.12	185.12
12/3/01	194.82	194.64	191.60	193.35	192.71	191.51	192.35	188.75	189.95	185.09
12/14/01	194.87	194.64	191.97	193.64	193.06	191.49	192.38	188.96	190.33	185.07
12/27/01	194.75	194.63	191.87	193.46	192.85	191.67	192.68	191.81	190.20	185.10
1/11/02	194.57	194.44	192.01	191.95	192.94	191.62	192.39	188.71	190.19	185.03
1/21-22/02	194.55	189.29	192.37	192.03	188.51	192.04	192.69	188.76	190.56	184.79
2/14/02	195.27	195.16	192.65	194.07	193.38	192.70	193.56	188.19	190.69	184.74
2/26/02	194.82	---- <sup>8</sup>	192.28	192.01	188.53	192.32	192.99	188.44	190.50	183.73
3/19-20/02	195.40	195.25	192.49	194.07	193.35	192.48	193.32	193.99	190.60	189.08
4/18/02	195.10	195.04	191.63	194.00	193.23	192.41	193.29	188.86	190.45	185.09
5/16-17/02	195.12	194.93	191.99	193.72	193.07	191.96	192.81	188.84	190.56	185.08

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**Table 1b.** Ground-water elevations for Piezometers; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (Piezometers) - Continued									
	PD-107	PD-108	PD-109							
	205.63	205.58	204.59							
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
5/4/01	187.97	191.03	Dry							
5/16/01	188.12	191.08	Dry							
6/1/01	188.05	191.08	Dry							
6/14/01	188.08	191.04	Dry							
6/26/01	188.07	191.09	Dry							
7/13/01	188.05	191.07	Dry							
7/26/01	195.12	195.73	Dry							
8/9/01	194.93	195.38	Dry							
8/15/01	188.13 <sup>5</sup>	191.03 <sup>5</sup>								
8/21/01	188.03 <sup>7</sup>	190.78 <sup>7</sup>	Dry							
8/24/01	188.05	191.08	Dry							
9/7/01	194.76		Dry							
9/20/01	194.52		Dry							
10/3/01	188.03	Abandoned	Dry							
10/15/01	193.88		Dry							
10/31/01	188.01		Dry							
12/3/01	193.13		Dry							
12/14/01	188.18		Dry							
12/27/01	187.99		Dry							
1/11/02	187.78		Dry							
1/21-22/02	187.85		Dry							
2/14/02	187.80		Dry							
2/26/02	187.87		Dry							
3/19-20/02	194.71		Dry							
4/18/02	188.03		Dry							
5/16-17/02	188.03		Dry							

Note:

- <sup>1</sup> Feet above mean sea level.
- <sup>2</sup> PZ-6 could not located because it was covered due to road construction.
- <sup>3</sup> PZ-1 was not measured on 12/3/01 because a car was parked over the piezometer.
- <sup>4</sup> Based on mini troll data.
- <sup>5</sup> Swabbed prior to measuring depth to water.
- <sup>6</sup> Mini troll data logger in piezometer.
- <sup>7</sup> Measured during coffer dam study.
- <sup>8</sup> The depth to water was not measured at PD-2 on 2/26/02 due to mud covering the tip of the measuring probe.

**Table 1c.** Ground-water elevations for Alfa monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (Alfa Monitoring Wells Vista View Development)									
	Alfa MW-1	Alfa MW-2	Alfa MW-3	Alfa MW-4	Alfa MW-5					
	213.53	206.01	209.67	213.18	203.42					
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
5/4/01					187.36					
5/16/01	195.78	194.62	196.97	195.59	187.10					
6/1/01					187.02					
6/14/01	___ <sup>2</sup>	___ <sup>2</sup>	___ <sup>2</sup>	___ <sup>2</sup>	187.17					
7/13/01	195.86	195.16	196.96	195.67	187.36					
7/26/01					187.49					
8/9/01	195.43		196.52	195.44	187.19					
8/21/01	195.43 <sup>3</sup>									
8/24/01			194.97		184.77					
9/4/01			198.27		187.05					
9/7/01		194.21		195.38	186.93					
9/20/01			194.71		186.82					
10/3/01	195.08	193.67	195.87	203.14	186.70					
10/15/01					186.72					
10/31/01	195.27	196.37	194.41	194.88	186.84					
12/3/01	194.43	193.24	195.04	194.47	186.51					
12/14/01					185.92					
12/27/01	194.38	193.61	194.99	194.29	186.98					
1/11/02					186.87					
1/22/02	194.38	191.40	197.83	194.18	187.24					
2/14/02					187.64					
2/26/02	194.89	194.23	195.38	194.52	187.16					
3/19-20/02	195.02	194.56	195.65	194.68	187.26					
4/17-18/02	194.98	194.38	197.77	194.21	186.67					
5/16-17/02	NM <sup>4</sup>	193.70	195.38	194.58	186.76					

Note:

<sup>1</sup> Feet above mean sea level.

<sup>2</sup> The Alfa monitoring wells were inadvertently not measured on 6/14/01.

<sup>3</sup> Measured during coffer dam study.

<sup>4</sup> NM - Not measured; Alfa monitoring well MW-1A was inadvertently not measured on May 16, 2002.

**Table 1d.** Ground-water elevations for monitoring wells along Kilby Ditch; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (Monitoring Wells Kilby Ditch)									
	MW 101	MW 201	MW 102	MW 202	MW 103	MW 203	OW-2	OW-3	OW-4	Pump Test Well
	202.44	202.43	200.49	200.64	206.81	206.91	203.05	203.53	200.52	206.01
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
5/16/01	194.32	194.23	190.68	190.50	193.09	192.96				
6/1/01	194.19	194.10	190.67	190.58	192.86	192.75				
6/14/01	194.23	194.14	190.79	190.54	192.79	192.74				
6/26/01	194.29	194.21	190.88	190.65	193.12	192.89				
7/13/01	194.48	194.86	191.06	190.82	193.49	193.22				
7/26/01	194.32	194.24	190.74	190.59	193.10	192.91	194.36	194.42	193.67	194.29
8/9/01	194.18	194.10	190.70	190.49	192.96	192.77	194.21	194.28	193.57	194.45
8/15/01 <sup>2</sup>	194.28	194.19								
8/21/01 <sup>3</sup>	194.22	194.14	190.64	190.41	193.02	192.88	194.26	194.31	193.58	194.18
8/24/01	194.16	194.08	190.69	190.39	192.94	192.76	194.20	194.26	193.58	194.13
9/7/01	194.09	193.98	190.65	192.34	192.69	192.57	194.11	194.18		197.21
9/20/01	193.96	193.89	190.48	190.23	192.50	192.43	194.05	194.04		197.12
10/3/01	193.84	193.77	190.29	190.10	192.32	192.25	193.85	193.93	Abandoned	196.93
10/15/01	193.74	193.67	190.57	190.14	192.27	192.16	193.77	193.78		196.90
10/31/01	193.60	193.51	190.29	190.08	192.08	192.00	193.62	193.63		196.76
12/3/01	193.19	193.30	190.28	190.14	190.98	191.71	193.39	193.13		196.57
12/14/01	193.64	194.06	190.60	190.44	191.79	191.74	193.61	193.63		196.79
12/27/01	193.49	193.43	190.67	190.38	191.96	191.86	193.50	193.53		196.65
1/11/02	193.48	193.43	190.69	190.39	191.96	191.84	193.50	193.39		196.64
1/22/02	193.79	193.70	191.29	190.83	192.55	192.20	193.35	193.78		196.96
2/14/02	194.14	194.06	191.31	190.98	193.37	192.90	194.15	194.19		197.29
2/26/02	193.92	193.85	190.92	190.67	192.76	192.52	193.96	193.99		197.09
3/19-20/02	194.11	194.03	191.12	190.82	192.93	192.63	194.13	194.18		197.27
4/18/02	194.12	194.06	191.29	191.13	191.91	191.92	193.70	194.13		197.51
5/17/02	193.76	193.69	190.19	190.53	192.28	192.16	193.77	193.80		196.91

Note:

<sup>1</sup> Feet above mean sea level.

<sup>2</sup> Swabbed prior to measuring depth to water.

<sup>3</sup> Measured during coffer dam study.

**Table 1e.** Ground-water elevations for 100-, 200-, & 300-series monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (100-, 200-, and 300- Series Monitoring Wells)									
	MW 104	MW 204	MW304	MW 105	MW 205	MW 106	MW 206	MW 107	MW 207	
	217.68	217.91	217.64	216.63	217.04	222.24	222.17	222.33	222.42	
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
7/13/01			195.64							
8/9/01			195.46							
9/7/01			195.45							
10/3/01			195.22							
10/31/01			194.94							
12/3/01			194.54							
12/27-28/01	194.75	194.76	194.38	195.21	195.20	195.14	195.17	195.18	195.14	
1/21-22/02	194.47	194.51	194.23	195.03	195.04	194.89	194.95	194.98	195.00	
2/25-26/02	194.96	194.98	194.59	195.23	195.23	195.16	195.18	195.26	195.29	
3/19-20/02	195.04	195.06	194.65	195.31	195.30	195.25	195.26	195.37	195.39	
4/18/02	195.23	195.26	194.84	195.56	195.57	195.57	195.56	195.72	195.69	
5/16-17/02	194.95	194.97	194.59	195.34	195.35	195.39	195.40	195.50	195.50	

*Continued on next page*

**Table 1e.** Ground-water elevations for 100-, 200-, & 300-series monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Well Identifier (100-, 200-, and 300- Series Monitoring Wells) - Continued										
Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	MW 108	MW 208	MW 109	MW 209	MW 210	MW 111	MW 211	MW 311	MW 112	MW 212
	212.59	212.76	220.91	220.31	188.74	211.52	211.75	210.82	220.34	220.40
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
7/13/01										
8/9/01										
9/7/01										
10/3/01										
10/31/01										
12/3/01										
12/27-28/01	195.09	195.11	195.26	195.21	185.76	173.52	173.30		191.61	191.65
1/21-22/02	195.03	195.06	195.05	195.10	185.59	173.17	172.95		191.63	191.55
2/25-26/02	195.38	195.40	195.39	195.37	186.19	172.91	172.74	173.06	191.97	191.91
3/19-20/02	195.47	195.47	195.46	195.45	186.21	172.88	172.79	173.01	192.05	192.01
4/17-18/02	195.67	195.69	195.66	195.66	185.54	173.00	172.84	173.19	192.29	192.21
5/16-17/02	195.33	195.42	195.40	195.36	185.93	172.81	172.62	172.98	192.01	191.96

*Continued on next page*

**Table 1e.** Ground-water elevations for 100-, 200-, & 300-series monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

<b>Well Identifier (100-, 200-, and 300- Series Monitoring Wells) - Continued</b>										
Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	MW 113	MW 213	MW 214	MW 214A	MW 115	MW 215	MW 116	MW 216	MW 117	MW 217
	207.37	207.41	174.73	174.71	212.06	211.81	194.02	194.04	218.90	218.86
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
7/13/01										
8/9/01										
9/7/01										
10/3/01										
10/31/01										
12/3/01										
12/27-28/01	194.97	194.96	167.75	166.11	194.68	194.17	185.58	185.47	182.57	182.06
1/21-22/02	195.17	195.07	169.93	166.69	194.74	194.21	185.69	185.53	181.73	181.56
2/25-26/02	195.36	195.36	168.27	167.25	195.14	194.58	185.84	185.67	181.45	181.33
3/19-20/02	195.72	195.71	169.67	167.50	195.41	194.93	185.84	185.68	181.43	181.30
4/17-18/02	195.83	195.83	167.24	169.78	195.76	195.26	185.86	185.67	181.80	181.71
5/16-17/02	195.32	195.32	169.01	165.81	195.01	194.50	185.67	185.50	181.75	181.62

*Continued on next page*

**Table 1e.** Ground-water elevations for 100-, 200-, & 300-series monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Well Identifier (100-, 200-, and 300- Series Monitoring Wells) - Continued										
Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	MW 118	MW 218	MW 219	MW 220	MW 221	MW 122	MW 222	MW 123	MW 223	
	203.18	203.23	202.88	219.25	183.60	214.65	214.47	216.44	216.34	
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
7/13/01										
8/9/01										
9/7/01										
10/3/01										
10/31/01										
12/3/01										
12/28/01	191.44	191.34	193.48	193.28	166.78	194.15	194.06	194.28	194.20	
1/21-22/02	191.62	191.53	194.55	193.22	166.68	194.04	193.77	194.02	193.97	
2/25-26/02	192.07	192.00	194.31	193.47	166.96	194.25	194.12	194.05	193.96	
3/19-20/02	192.65	192.54	194.97	193.55	167.19	194.32	194.19	194.13	194.04	
4/17-18/02	192.85	192.78	194.53	---- <sup>2</sup>	167.67	194.51	194.25	194.56	194.45	
5/16-17/02	191.99	191.93	193.64	193.47	167.40	194.26	194.14	194.25	194.15	

*Continued on next page*

**Table 1e.** Ground-water elevations for 100-, 200-, & 300-series monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

<b>Well Identifier (100-, 200-, and 300- Series Monitoring Wells) - Continued</b>										
Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	MW 124	MW 224	MW 125	MW 225	MW 226	MW 227	MW 128	MW 228	MW 129	MW 229
	219.11	219.25	206.43	206.32	203.61	205.16	212.11	212.23	214.62	214.32
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
7/13/01										
8/9/01										
9/7/01										
10/3/01										
10/31/01										
12/3/01										
12/28/01	189.71	190.08	188.71	188.78	188.66	194.39	191.41	191.42	194.58	194.22
1/21-22/02	190.11	190.13	188.81	188.83	188.79	194.44	191.31	191.26	194.56	194.55
2/25-26/02	190.69	190.68	189.25	189.24	189.13	194.94	191.63	191.58	195.04	195.03
3/19-20/02	190.73	190.71	189.22	189.21	189.09	195.10	191.82	191.76	195.14	195.12
4/17-18/02	190.88	190.87	189.32	189.29	189.10	196.13	192.36	192.30	194.45	194.42
5/16-17/02	190.49	190.49	188.94	188.93	188.64	194.85	191.96	191.91	194.97	194.96

*Continued on next page*

**Table 1e.** Ground-water elevations for 100-, 200-, & 300-series monitoring wells; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama.

Elevation of Measuring Point (ft. AMSL) <sup>1</sup>	Well Identifier (100-, 200-, and 300- Series Monitoring Wells) - Continued									
	MW 130	MW 230	MW 131	MW 231	MW 132	MW 232	MW 133	MW 233	MW 134	MW 234
	215.71	215.68	205.92	205.92	215.20	215.25	205.04	204.90	209.33	209.51
Date of Measurement	Ground-Water Elevation (ft. AMSL)									
7/13/01										
8/9/01										
9/7/01										
10/3/01										
10/31/01										
12/3/01										
12/27-28/01	194.37	194.38	194.87	194.89	193.00	192.96	194.42	194.49	194.07	194.06
1/21-22/02	194.29	194.31	195.01	195.04	192.75	192.66	194.59	194.43	193.88	194.01
2/25-26/02	194.64	194.70	195.31	195.29	192.95	192.89	194.94	194.89	194.47	194.57
3/19-20/02	194.88	194.89	195.50	195.59	193.05	193.02	195.21	195.14	194.87	194.86
4/17/02	195.41	195.43	195.05	195.10	193.55	193.55	195.16	195.12	195.23	195.27
5/16-17/02	194.98	194.99	195.26	195.26	193.32	193.28	194.71	194.67	194.54	194.58

Note:

<sup>1</sup> Feet above mean sea level. Elevations of land surface and measuring points of monitoring wells were surveyed by Larry E. Speaks & Associates.

<sup>2</sup> Monitoring well MW-220 was not measured on 4/18/02 due to an oversight by the field technician.

Table 2. Results of analyses<sup>1</sup> of surface-water samples: May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery Alabama. [Locations of surface-water sample sites are shown on Figure 2.]

	SAMPLE SITE																SW-15***	SW-16****		
	SW-1*	SW-2*	SW-2A*	SW-2B*	SW-3**	SW-4*	SW-5*	SW-5A*	SW-5B**	SW-6**	SW-7**	SW-8**	SW-9**	SW-10**	SW-11**	SW-12			SW-13	SW-14
	Concentrations are expressed in micrograms/liter																			
	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	
<b>July 24, 2000 (No storm events several days prior to sampling)</b>																				
Trichloroethylene	NS <sup>3</sup>	15	----	----	10.2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	NS	ND <sup>4</sup>	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis,1,2-Dichloroethene	NS	2.5	----	----	2.8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chloroform	NS	3.2	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Toluene	NS	13.4	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>August 2, 2000 (Storm event during sampling)</b>																				
Trichloroethylene	ND	ND	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>August 11, 2000 (Storm event prior evening - August 10, 2000)</b>																				
Trichloroethylene	ND	ND	----	----	2.1	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	ND	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Toluene	ND	1.1	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>September 18, 2000</b>																				
Trichloroethylene	NS	ND	----	----	2.1	NS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	NS	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chloroform	NS	41.6	----	----	10.3	NS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Bromodichloromethane	NS	6.2	----	----	1.8	NS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dibromochloromethane	NS	1.5	----	----	ND	NS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>November 9, 2000 (Storm event during sampling)</b>																				
Trichloroethylene	ND	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	ND	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>December 15, 2000</b>																				
Trichloroethylene	ND	ND	----	----	8.1	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	ND	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Toluene	ND	2.5	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>January 31, 2001</b>																				
Trichloroethylene	ND	34.5	----	----	17.4	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	ND	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chloroform	ND	1.3	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>February 27, 2001</b>																				
Trichloroethylene	ND	100	----	----	21.1	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	ND	ND	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,1-Dichloroethene	ND	1.1	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis,1,2-Dichloroethene	ND	1.5	----	----	1.4	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chloroform	ND	1.2	----	----	ND	ND	----	----	----	----	----	----	----	----	----	----	----	----	----	----
<b>March 30, 2001</b>																				
Trichloroethylene	ND	156	----	----	68.0	ND	157	----	----	ND	ND	51.9	33.8	19.7	18.3	ND	3.4	----	----	----
Vinyl Chloride	ND	ND	----	----	ND	ND	ND	----	----	ND	----	----								
1,1-Dichloroethene	ND	2.0	----	----	ND	ND	1.1	----	----	ND	----	----								
cis,1,2-Dichloroethene	ND	ND	----	----	ND	ND	ND	----	----	ND	ND	1.0	ND	ND	ND	ND	ND	ND	----	----

Continued on next page

Table 2. Results of analyses<sup>1</sup> of surface-water samples; May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery Alabama. [Locations of surface-water sample sites are shown on Figure 2.]

	SAMPLE SITE																				
	SW-1*	SW-2*	SW-2A*	SW-2B*	SW-3**	SW-4*	SW-5*	SW-5A*	SW-5B**	SW-6**	SW-7**	SW-8**	SW-9**	SW-10**	SW-11**	SW-12	SW-13	SW-14	SW-15***	SW-16****	
	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	
Concentrations are expressed in micrograms/liter																					
<b>April 26, 2001</b>																					
Trichloroethylene	ND	156	----	----	66.6	NS	88.8	----	----	NS	NS	46.4	21.9	16.7	15.7	1.8	ND	----	----	----	
Vinyl Chloride	ND	ND	----	----	ND	NS	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	----	----	----	
1,1-Dichloroethene	ND	2.0	----	----	ND	NS	1.0	----	----	NS	NS	ND	ND	ND	ND	ND	ND	----	----	----	
cis,1,2-Dichloroethene	ND	ND	----	----	ND	NS	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	----	----	----	
<b>May 25, 2001</b>																					
Trichloroethylene	ND	140	----	----	24.3	ND	95.5	----	----	ND	ND	23.8	31.6	21.7	21.3	1.4	ND	----	----	----	
Vinyl Chloride	ND	ND	----	----	ND	ND	ND	----	----	ND	----	----	----								
1,1-Dichloroethene	ND	1.6	----	----	ND	ND	ND	----	----	ND	----	----	----								
cis,1,2-Dichloroethene	ND	ND	----	----	ND	ND	1.1	----	----	ND	----	----	----								
<b>June 7, 2001</b>																					
Trichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	21.4	----
<b>June 21, 2001</b>																					
Trichloroethylene	ND	118	----	----	39.6	ND	87.9	----	----	ND	ND	19.4	15.6	9.8	10.5	1.1	ND	14.8	----	----	
Vinyl Chloride	ND	ND	----	----	ND	ND	ND	----	----	ND	----	----									
Chloromethane	ND	ND	----	----	ND	ND	ND	----	----	ND	----	----									
1,1-Dichloroethene	ND	1.2	----	----	ND	ND	ND	----	----	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	----	----
cis,1,2-Dichloroethene	ND	ND	----	----	ND	ND	1.2	----	----	ND	----	----									
Chloroform	ND	3.4	----	----	ND	ND	ND	----	----	ND	----	----									
<b>July 24, 2001</b>																					
Trichloroethylene	ND	154	----	----	46.0	NS	68.2	----	----	NS	NS	25.4	15.1	5.9	6.3	ND	ND	12.0	----	----	
Vinyl Chloride	ND	ND	----	----	ND	NS	ND	----	----	NS	NS	ND	----	----							
1,1-Dichloroethene	ND	1.5	----	----	ND	NS	ND	----	----	NS	NS	ND	----	----							
cis,1,2-Dichloroethene	ND	ND	----	----	ND	NS	1.0	----	----	NS	NS	1.3	1.0	ND	ND	ND	ND	ND	ND	----	----
<b>August 17, 2001</b>																					
Trichloroethylene	ND	191	----	----	39.9	NS	66.6	----	----	NS	ND	18.4	6.0	5.6	7.0	ND	ND	6.4	----	----	
Vinyl Chloride	ND	ND	----	----	ND	NS	ND	----	----	NS	ND	----	----								
1,1-Dichloroethene	ND	1.2	----	----	ND	NS	1.7	----	----	NS	ND	----	----								
<b>August 22, 2001 (3:30 p.m.)</b>																					
Trichloroethylene	----	----	87.3	195	----	----	63.3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	----	----	1.8	ND	----	----	ND	----	----	----	----	----	----	----	----	----	----	10.2	227	295	----
1,1-Dichloroethene	----	----	ND	2.4	----	----	ND	----	----	----	----	----	----	----	----	----	----	ND	ND	ND	----
cis,1,2-Dichloroethene	----	----	9.1	ND	----	----	1.4	----	----	----	----	----	----	----	----	----	----	ND	5.6	3.4	----
Chloroform	----	----	ND	ND	----	----	ND	----	----	----	----	----	----	----	----	----	----	ND	ND	ND	----
																		1.3	ND	ND	----

Continued on next page

Table 2. Results of analyses<sup>1</sup> of surface-water samples: May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery Alabama. [Locations of surface-water sample sites are shown on Figure 2.]

	SAMPLE SITE																				
	SW-1*	SW-2*	SW-2A*	SW-2B*	SW-3**	SW-4*	SW-5*	SW-5A*	SW-5B**	SW-6**	SW-7**	SW-8**	SW-9**	SW-10**	SW-11**	SW-12	SW-13	SW-14	SW-15***	SW-16****	
	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	
Concentrations are expressed in micrograms/liter																					
<b>August 22, 2001 (9:55 p.m.)</b>																					
Trichloroethylene	----	----	143	174	----	----	69.3	----	----	----	----	----	----	----	----	----	----	----	9.4	222	300
Chloromethane	----	----	1.2	ND	----	----	2.3	----	----	----	----	----	----	----	----	----	----	----	ND	ND	ND
Vinyl Chloride	----	----	2.9	ND	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	ND	ND	ND
1,1-Dichloroethene	----	----	1.5	2.1	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	ND	ND	ND
cis,1,2-Dichloroethene	----	----	16.8	ND	----	----	1.5	----	----	----	----	----	----	----	----	----	----	----	ND	5.9	3.6
Chloroform	----	----	ND	ND	----	----	ND	----	----	----	----	----	----	----	----	----	----	----	ND	ND	ND
<b>August 23, 2001 (8:30 a.m.)<sup>5</sup></b>																					
Trichloroethylene	----	----	116	146	----	----	----	62.3	ND	----	----	----	----	----	----	----	----	----	1.3	ND	ND
Chloromethane	----	----	ND	ND	----	----	----	1.5	ND	----	----	----	----	----	----	----	----	----	9.8	212	252
Vinyl Chloride	----	----	2.8	ND	----	----	----	ND	ND	----	----	----	----	----	----	----	----	----	ND	ND	ND
1,1-Dichloroethene	----	----	1.2	1.6	----	----	----	ND	ND	----	----	----	----	----	----	----	----	----	ND	ND	ND
cis,1,2-Dichloroethene	----	----	13.8	ND	----	----	----	ND	ND	----	----	----	----	----	----	----	----	----	ND	ND	ND
Chloroform	----	----	ND	ND	----	----	----	1.3	ND	----	----	----	----	----	----	----	----	----	ND	6.3	3.1
<b>September 20, 2001<sup>6</sup></b>																					
Trichloroethylene	ND	----	88.3	156	33.0	ND	69.2	----	----	ND	ND	23.0	21.0	7.0	10.5	ND	ND	6.2	----	----	----
Chloromethane	ND	----	ND	ND	ND	ND	ND	----	----	ND	----	----	----								
Vinyl Chloride	ND	----	1.6	ND	ND	ND	ND	----	----	ND	----	----	----								
Chloroethane	ND	----	ND	ND	ND	ND	ND	----	----	ND	----	----	----								
1,1-Dichloroethene	ND	----	ND	1.5	ND	ND	ND	----	----	ND	----	----	----								
cis,1,2-Dichloroethene	ND	----	8.4	ND	ND	ND	1.2	----	----	ND	----	----	----								
Chloroform	ND	----	1.6	3.4	1.6	ND	1.5	----	----	ND	ND	ND	1.4	ND	ND	ND	ND	ND	----	----	----
<b>September 28, 2001</b>																					
Trichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Vinyl Chloride	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,1-Dichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	160	225
cis,1,2-Dichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	ND	ND
Chloroform	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.5	2.4
<b>October 10, 2001</b>																					
Trichloroethylene	NS	----	87.2	115	19.9	NS	49.3	----	----	NS	NS	17.2	4.6	3.0	8.7	ND	ND	5.8	171	233	
Vinyl Chloride	NS	----	ND	ND	ND	NS	ND	----	----	NS	NS	ND	ND	ND							
1,1-Dichloroethene	NS	----	ND	ND	ND	NS	ND	----	----	NS	NS	ND	ND	ND							
cis,1,2-Dichloroethene	NS	----	5.6	ND	ND	NS	ND	----	----	NS	NS	ND	2.4	2.0	2.0						
<b>November 8, 2001</b>																					
Trichloroethylene	NS	----	106	130	39.2	NS	91.8	----	----	ND	ND	33.5	16.7	9.0	14.2	ND	ND	NS	NS <sup>7</sup>	190	190
Vinyl Chloride	NS	----	ND	ND	ND	NS	ND	----	----	ND	NS	NS <sup>7</sup>	ND	ND							
1,1-Dichloroethene	NS	----	1.0	1.1	ND	NS	ND	----	----	ND	NS	NS <sup>7</sup>	1.8	1.8							
cis,1,2-Dichloroethene	NS	----	5.7	ND	ND	NS	1.5	----	----	ND	ND	1.5	1.0	ND	ND	ND	ND	NS	NS <sup>7</sup>	ND	ND

Continued on next page

Table 2. Results of analyses<sup>1</sup> of surface-water samples; May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery Alabama. [Locations of surface-water sample sites are shown on Figure 2.]

	SAMPLE SITE																				
	SW-1*	SW-2*	SW-2A*	SW-2B*	SW-3**	SW-4*	SW-5*	SW-5A*	SW-5B**	SW-6**	SW-7**	SW-8**	SW-9**	SW-10**	SW-11**	SW-12	SW-13	SW-14	SW-15***	SW-16****	
	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l
	Concentrations are expressed in micrograms/liter																				
<b>December 4, 2001</b>																					
Trichloroethylene	ND	----	107	27.5	37.3	ND	79.0	----	----	NS	NS	21.0	8.7J <sup>8</sup>	ND	ND	ND	ND	NS	366	NS <sup>5</sup>	
Vinyl Chloride	ND	----	ND	ND	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	NS	ND	NS <sup>6</sup>	
1,1-Dichloroethene	ND	----	ND	ND	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	NS	ND	NS <sup>6</sup>	
cis,1,2-Dichloroethene	ND	----	1.1 <sup>5</sup>	2.1J	ND	ND	1.4J	----	----	NS	NS	ND	ND	ND	ND	ND	ND	NS	2.4J	NS <sup>6</sup>	
Chloroform	ND	----	ND	1.7J	ND	ND	ND	----	----	NS	NS	1.5J	ND	ND	ND	ND	ND	NS	2.8J	NS <sup>6</sup>	
<b>January 7, 2002</b>																					
Trichloroethylene	ND	----	28.6	30.1	47.5	ND	14.4J	----	----	ND	ND	8.6J	8.5J	4.8J	4.6J	ND	ND	22.3	229	48.3	
Vinyl Chloride	ND	----	ND	ND	ND	ND	ND	----	----	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	ND	----	ND	ND	ND	ND	ND	----	----	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<b>February 13, 2002</b>																					
Trichloroethylene	ND	----	226	158	82.6	ND	129	----	----	NS	NS	42.9	9.1J	5.9J	14.0J	ND	ND	6.4J	195	311	
Vinyl Chloride	ND	----	ND	ND	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	ND	----	2.3J	2.1J	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis,1,2-Dichloroethene	ND	----	ND	7.1J	ND	ND	1.2J	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	3.1J	4.0J	
Chloroform	ND	----	ND	ND	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<b>March 19, 2002</b>																					
Trichloroethylene	ND	----	27.3	182	66.2	ND	102	----	----	NS	NS	47.7	26.3	11.0J	10.6J	ND	ND	6.4J	NS <sup>7</sup>	200	
Vinyl Chloride	ND	----	ND	ND	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	ND	----	ND	2.9J	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis,1,2-Dichloroethene	ND	----	2.2J	2.5J	1.2J	ND	1.7J	----	----	NS	NS	1.3J	1.2J	ND	ND	ND	ND	ND	ND	NS <sup>7</sup>	3.0J
Chloroform	ND	----	2.2J	ND	ND	ND	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS <sup>7</sup>	1.3J
<b>April 19, 2002</b>																					
Trichloroethylene	ND	----	156	40.5	64.1	NS	89.8	----	----	NS	NS	ND	ND	ND	ND	ND	ND	7.7J	145	138	
Vinyl Chloride	ND	----	ND	ND	ND	NS	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	ND	----	2.2J	4.0J	ND	NS	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis,1,2-Dichloroethene	ND	----	ND	2.7J	1.4J	NS	2.0J	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	5.0J	4.0J
Chloroform	ND	----	ND	1.4J	ND	NS	ND	----	----	NS	NS	ND	ND	ND	ND	ND	ND	ND	1.4J	ND	ND

Continued on next page

**Table 2.** Results of analyses<sup>1</sup> of surface-water samples: May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery Alabama. [Locations of surface-water sample sites are shown on Figure 2.]

	SAMPLE SITE																				
	SW-1*	SW-2*	SW-2A*	SW-2B*	SW-3**	SW-4*	SW-5*	SW-5A*	SW-5B**	SW-6**	SW-7**	SW-8**	SW-9**	SW-10**	SW-11**	SW-12	SW-13	SW-14	SW-15***	SW-16****	
	Concentrations are expressed in micrograms/liter																				
	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	
<b>May 20, 2002</b>																					
Trichloroethylene	ND	----	105	35.9	28.3	NS	42.3	----	----	NS	ND	13.6J	12.1J	4.9J	7.5J	ND	ND	6.7J	193	178	
Vinyl Chloride	ND	----	ND	ND	ND	NS	ND	----	----	NS	ND										
1,1-Dichloroethene	ND	----	1.4J	ND	ND	NS	ND	----	----	NS	ND										
cis,1,2-Dichloroethene	ND	----	1.8J	3.8J	1.1J	NS	1.6J	----	----	NS	ND	1.3J	1.5J	ND	ND	ND	ND	ND	4.2J	2.5J	
Chloroform	ND	----	ND	ND	ND	NS	ND	----	----	NS	ND	1.1J	ND	1.8J							

Notes:

\* West Kilby ditch

\*\* Main Kilby ditch

\*\*\* Manhole northwest of Pizza Hut.

\*\*\*\* Manhole northeast of Pizza Hut.

---- Sample point not included in sampling plan.

<sup>1</sup> Samples analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

<sup>2</sup> MDL = Method Detection Limit of 1.0 micrograms per liter for the laboratory analyses

<sup>3</sup> NS - Not sampled (sample site was "dry").

<sup>4</sup> ND - Not detected

<sup>5</sup> SW-5 was sampled as SW-5A and SW-5B on August 23, 2001.

<sup>6</sup> Location SW-2 which has historically been a single sample from the dual pipes under Coliseum Boulevard, was sampled as two separate locations (SW-2A and SW-2B) beginning September 20, 2001.

<sup>7</sup> Storm sewer (identifier SW-15) was not sampled because the manhole of the sewer was covered.

<sup>8</sup> J - Concentration below calibration curve, but above detection limit

<sup>9</sup> On December 4, 2001, manhole SW-16 was not sampled because only a very small amount of water was present.

**Table 3.** Results of analyses<sup>1</sup> and treated volumes of water from the treatment system; May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery Alabama.

Sample Dates	Carbon Filter 1 <sup>2</sup>	Carbon Filter 2	Carbon Filter 3	Blanks	Volume Treated (gallons)
	[Concentrations are expressed in micrograms per liter (µg/l)]				
	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	
<b>May 10, 2002<sup>4</sup></b>					
Trichloroethylene	ND <sup>5</sup>	NS <sup>7</sup>	ND	ND	988
Chloromethane	1.5J <sup>6</sup>		ND	ND	
Vinyl Chloride	ND		ND	ND	
Chloroform	ND		ND	ND	
<b>Total Volume Treated - May</b>					<b>988</b>

Notes:

- <sup>1</sup> The samples were analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods.
- <sup>2</sup> Carbon filters installed in series; samples collected after Carbon Filter 1 (1st filter in series) to determine break through. Samples collected after Carbon Filter 3 for compliance with Montgomery Water Works and Sanitary Sewer Board discharge requirements.
- <sup>3</sup> MDL - Method Detection Limit of 1.0 micrograms per liter for the laboratory analyses
- <sup>4</sup> On May 10, 2002, two new carbon filter drums were installed at the treatment system. The third position drum was moved to the first position. The two newly installed drums were arranged into the second and third positions.
- <sup>5</sup> ND - Not detected
- <sup>6</sup> J - Concentration below calibration curve, but above detection limit
- <sup>7</sup> NS - No sample collected this month.

**Table 4.** Construction characteristics of continuous multi-channel tubing (CMT) wells; May 2002 Status Report; Coliseum Blvd. Plume; Montgomery, Alabama.

CMT Well I.D.	Location	Date Constructed	Total Depth (ft. BLS) <sup>1</sup>	Diameter of Borehole (inches)	Diameter of CMT (inches)	Port <sup>2</sup>	Screened Intervals (ft. BLS)	Sand Pack (ft. BLS)	Bentonite Pellet Seal (ft. BLS)	Cement/Bentonite Seal (ft. BLS)
CMT 1	Gardendale Dr. at Location 2R	2/13/02	51.5	6	1½	1	43.1-43.4	42-45	41-42	0.5-27
						2	39.3-39.6	39-41	37-39	
						3	35.3-35.6	35-37	34-35	
						4 <sup>3</sup>	31.6-31.9	32-34	31-32	
						5	29.2-29.5	29-31	27-29	
						6	47.4-47.7	46-49	45-46	
						7	51.5	51-54	49-51	
CMT 2	Broadway St. at Location 9R	2/14/02	60	6	1½	1	32.3-32.6	30.1-34 35-37.2 <sup>4</sup>	28-30.1 34-35	0.5-28
						2	40.3-40.6	38.2-40.5	37.2-38.2	
						3	44.3-44.6	43-45.2	40.5-43	
						4	48.4-48.7	47-49	45.2-47	
						5	52.3-52.6	50.9-52.8	49-50.9	
						6	56.1-56.4	54.4-57	52.8-54.4	
						7	59.8	59-62	57-59	

Notes:

<sup>1</sup> Feet below land surface.

<sup>2</sup> The ports for CMT 1 were not installed from shallowest to deepest, as they were for CMT 2.

<sup>3</sup> A bentonite plug probably surrounds the screen.

<sup>4</sup> Interval of sand was used because of an insufficient supply of bentonite pellets.

**Table 5.** Historical ground-water elevations in CMT wells; May 2002 Status Report; Coliseum Blvd. Plume; Montgomery, Alabama.

Well Identifier	Elevation of Land Surface <sup>1</sup> (ft. AMSL) <sup>2</sup>	Elevation of Measuring Point <sup>3</sup> (ft. AMSL)	Date of Measurement	Port	Screened Intervals (ft. BLS) <sup>4</sup>	Depth to Water (ft. BMP) <sup>5</sup>	Ground-Water Elevation (ft. AMSL)	
CMT 1	219.70	219.50	2/21/02	1	43.1-43.4	24.15	195.35	
				2	39.3-39.6	24.15	195.35	
				3	35.3-35.6	24.15	195.35	
				4	31.6-31.9	20.03 <sup>6</sup>	199.46	
				5	29.2-29.5	24.15	195.35	
				6	47.4-47.7	24.15	195.35	
				7	51.45	24.15	195.35	
			4/4/02	4/4/02	1	43.1-43.4	23.66	195.84
					2	39.3-39.6	23.80	195.70
			4/5/02	4/5/02	3	35.3-35.6	23.66	195.84
					4	31.6-31.9	23.65	195.85
					5	29.2-29.5	23.65	195.85
					6	47.4-47.7	23.66	195.84
					7	51.45	23.66	195.84
			5/6/02	5/6/02	1	43.1-43.4	23.82	195.68
					2	39.3-39.6	23.85	195.65
					3	35.3-35.6	23.85	195.65
					4	31.6-31.9	23.50	196.00
					5	29.2-29.5	23.85	195.65
					6	47.4-47.7	23.88	195.62
					7	51.45	23.92	195.58

*Continued on next page*

**Table 5.** Historical ground-water elevations in CMT wells; May 2002 Status Report; Coliseum Blvd. Plume; Montgomery, Alabama.

Well Identifier	Elevation of Land Surface <sup>1</sup> (ft. AMSL) <sup>2</sup>	Elevation of Measuring Point <sup>3</sup> (ft. AMSL)	Date of Measurement	Port	Screened Intervals (ft. BLS) <sup>4</sup>	Depth to Water (ft. BMP) <sup>5</sup>	Ground-Water Elevation (ft. AMSL)
CMT 2	222.18	221.85	2/21/02	1	32.3-32.6	26.70	195.15
				2	40.3-40.6	26.69	195.16
				3	44.3-44.6	26.69	195.16
				4	48.4-48.7	26.67	195.18
				5	52.3-52.6	26.69	195.16
				6	56.1-56.4	26.69	195.16
				7	59.8	8.69 <sup>7</sup>	----
			5/6/02	1	32.3-32.6	26.28	195.57
				2	40.3-40.6	26.29	195.56
				3	44.3-44.6	26.28	195.57
				4	48.4-48.7	26.29	195.56
				5	52.3-52.6	26.31	195.54
				6	56.1-56.4	26.30	195.55
				7	59.8	26.23	195.62

Notes:

- 1 Elevations of land surface and measuring points were surveyed by Larry E. Speaks & Associates.
- 2 Feet above mean sea level
- 3 Top of casing
- 4 Feet below land surface
- 5 Feet below measuring point
- 6 Screen most likely within bentonite plug.
- 7 Anomalous water level; most likely caused by accumulation of water inside port during well construction.

**Table 6.** Historical results of analyses<sup>1</sup> for volatile organic compounds (VOCs) detected in ground-water samples from continuous multi-channel tubing (CMT) wells; May 2002 Status Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama.

Boring ID	Sample ID	Screened Interval	Sample Date	[Concentrations are in micrograms per liter (µg/l)]																		
				Trichloroethylene	Chloromethane	Vinyl Chloride	Methylene Chloride	1, 1 Dichloroethene	1, 1 Dichloroethane	cis-1,2-Dichloroethene	Chloroform	1, 1, 1-Trichloroethane	Carbon Tetrachloride	Benzene	1, 2 Dichloroethane	Bromodichloromethane	Toulene	1, 1, 2 Trichloroethane	Tetrachloroethylene	M,P,O-Xylenes		
CMT-1	Port 1	43.1-43.4	02/21/2002	304	ND <sup>3</sup>	ND	ND	35.9	ND	ND	61.1	ND	ND	ND	ND	ND	ND	1.0J <sup>4</sup>	ND	ND	ND	
			04/04/2002	4,790	ND	ND	26.1B <sup>5</sup>	412	ND	ND	49.0J	ND	43.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND
			05/06/2002	2,590	ND(<5.0)	ND(<5.0)	ND(<5.0)	379	ND(<5.0)	ND(<5.0)	65.9J	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	5.8J	ND(<5.0)	ND(<5.0)
	Port 2	39.3-39.6	02/21/2002	84.2	ND	ND	ND	5.4J	ND	ND	57.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			04/04/2002	2,390	ND	ND	12.0B	117	ND	ND	33.1J	ND	15.1J	ND	ND	ND	ND	ND	ND	ND	ND	ND
			05/06/2002	1,720	ND(<2.5)	ND(<2.5)	ND(<2.5)	95.1	ND(<2.5)	ND(<2.5)	42.8J	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)
	Port 3	35.3-35.6	02/21/2002 <sup>6</sup>	850	NA <sup>7</sup>	ND	NA	20,000J	ND	ND	ND	23J	ND	ND	ND	ND	NA	ND	NA	NA	NA	ND
			04/05/2002	2,210	ND	ND	10.4B	40.5J	ND	ND	22.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			05/06/2002	1,220	ND(<2.5)	ND(<2.5)	ND(<2.5)	33.4J	ND(<2.5)	ND(<2.5)	38.7J	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	3.5J	ND(<2.5)	ND(<2.5)	ND(<2.5)
	Port 4	31.6-31.9	02/21/2002	NS <sup>8</sup>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Port 5	29.2-29.5	02/21/2002 <sup>6</sup>	100	NA	ND	NA	1,500J	ND	ND	ND	18J	ND	ND	ND	ND	NA	ND	NA	NA	NA	ND
			04/05/2002	350J	ND	ND	1.8B	5.2J	ND	ND	6.9J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			05/06/2002	192	ND	ND	ND	3.8J	ND	ND	7.9J	ND	ND	ND	ND	ND	ND	ND	2.4J	ND	ND	ND
	Port 6	47.4-47.7	02/21/2002	157	ND	ND	ND	27.0	ND	ND	54.7	ND	ND	ND	ND	ND	2.7J	ND	ND	ND	ND	ND
			04/05/2002	6,790	ND	ND	24.3B	860	ND	ND	43.1J	ND	150J	ND	ND	ND	ND	ND	ND	ND	ND	ND
			05/06/2002	4,810	ND(<10)	ND(<10)	ND(<10)	845	ND(<10)	ND(<10)	69.9J	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
	Port 7	51.5	02/21/2002	585	ND	ND	ND	77.2	ND	ND	58.1	ND	14.8J	ND	ND	3.3J	ND	ND	ND	ND	ND	ND
			04/05/2002	6,430	ND	ND	23.6B	900	ND	ND	25.4J	ND	166J	ND	ND	ND	ND	ND	ND	ND	ND	ND
			05/06/2002	4,940	ND(<10)	ND(<10)	ND(<10)	942	ND(<10)	ND(<10)	48.8J	ND(<10)	104J	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)

Continued on next page

**Table 6.** Historical results of analyses<sup>1</sup> for volatile organic compounds (VOCs) detected in ground-water samples from continuous multi-channel tubing (CMT) wells; May 2002 Status Report; Coliseum Boulevard Plume Investigation, Montgomery, Alabama.

Boring ID	Sample ID	Screened Interval	Sample Date	[Concentrations are in micrograms per liter (µg/l)]																		
				Trichloroethylene	Chloromethane	Vinyl Chloride	Methylene Chloride	1, 1 Dichloroethene	1, 1 Dichloroethane	cis-1,2-Dichloroethene	Chloroform	1, 1, 1-Trichloroethane	Carbon Tetrachloride	Benzene	1, 2 Dichloroethane	Bromodichloromethane	Toulene	1, 1, 2 Trichloroethane	Tetrachloroethylene	M,P,O-Xylenes		
CMT-2	Port 1	32.3-32.6	02/21/2002	1.4J	ND	ND	ND	ND	ND	ND	ND	35.4	ND	ND	ND	ND	1.4J	1.7J	ND	ND	ND	
			05/06/2002	787	ND(<2.5)	ND(<2.5)	ND(<2.5)	11.6J	ND(<2.5)	ND(<2.5)	29.7J	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)
	Port 2	40.3-40.6	02/21/2002	1.9J	ND	ND	ND	ND	ND	ND	ND	28.2	ND	ND	ND	ND	3.4J	ND	ND	ND	ND	ND
			05/06/2002	4,090	ND(<10)	ND(<10)	ND(<10)	68.5J	ND(<10)	ND(<10)	18.3J	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
	Port 3	44.3-44.6	02/21/2002	5.6J	ND	ND	ND	ND	ND	ND	ND	43.5	ND	ND	ND	ND	1.3J	ND	ND	ND	ND	ND
			05/06/2002	2,770	ND(<5.0)	ND(<5.0)	ND(<5.0)	72.8J	ND(<5.0)	ND(<5.0)	25.1J	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
	Port 4	48.4-48.7	02/21/2002	1.7J	ND	ND	ND	ND	ND	ND	ND	42.8	ND	ND	ND	ND	2.7J	1.0J	ND	ND	ND	ND
			05/06/2002	1,320	ND(<2.5)	ND(<2.5)	4.4J	44.5J	ND(<2.5)	ND(<2.5)	31.4J	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)	ND(<2.5)
	Port 5	52.3-52.6	02/21/2002	ND	ND	ND	ND	ND	ND	ND	ND	45.4	ND	ND	ND	ND	2.2J	1.1J	ND	ND	ND	ND
			05/07/2002	79.3	ND	ND	ND	6.5J	ND	ND	6.0J	ND	ND	ND	ND	ND	ND	1.3J	ND	ND	ND	ND
	Port 6	56.1-56.4	02/21/2002	ND	ND	ND	ND	ND	ND	ND	ND	64.4	ND	ND	ND	ND	1.5J	1.9J	ND	ND	ND	ND
			05/07/2002	11.3J	ND	ND	9.1J	1.0J	ND	ND	21.0	ND	ND	ND	ND	ND	ND	2.7J	ND	ND	ND	ND
	Port 7	59.8	02/21/2002	ND	ND	ND	ND	ND	ND	ND	ND	46.0	ND	ND	ND	ND	ND	1.1J	ND	ND	ND	ND
			05/07/2002	1.3J	ND	ND	8.6J	ND	ND	ND	36.3	ND	ND	ND	ND	ND	ND	3.1J	ND	ND	ND	ND

Notes:

- <sup>1</sup> Samples collected were analyzed in accordance with Method 8260 outlined in *Test Methods for Evaluating Solid Waste Physical/Chemical Methods*, EPA, SW-846.
- <sup>2</sup> MDL - Method Detection Limit of 1.0 (2.5, 5.0 or 10.0) micrograms per liter for the laboratory analyses
- <sup>3</sup> ND - Not detected
- <sup>4</sup> J - Concentration below calibration curve, but above detection limit
- <sup>5</sup> B - Compound of interest was found above the detection limit concentration in a laboratory sample
- <sup>6</sup> CMT 1, Ports 3 and 5 samples were analyzed by Plains Environmental Services on February 21, 2002, using a heated head-space method in a mobile laboratory.
- <sup>7</sup> NA - Not analyzed
- <sup>8</sup> NS - Not sampled; bentonite most likely around port

**Table 7.** Volatile organic compounds<sup>1</sup> (VOCs) detected in soil/sediment samples; Quarterly "Low-Lying Areas" Investigation; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama. [Sampling locations are shown on Figure 3.]

Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Trichloroethylene	Trichlorofluoromethane	Benzene	Toluene	M,P-Xylenes	Methylene Chloride <sup>2</sup>
			[Concentrations are in micrograms per kilogram (µg/kg)]					
			3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>
A	11/15/2001	6	ND <sup>4</sup>	ND	ND	ND	ND	ND
A	02/13/2002	12	ND	6.3	ND	ND	ND	4.3J <sup>5</sup>
A	05/22/2002	-	NC <sup>6</sup>	NC	NC	NC	NC	ND
B	11/15/2001	5	ND	ND	ND	ND	ND	NC
B	02/13/2002	10	ND	ND	ND	ND	ND	3.6J
B - duplicate <sup>7</sup>	02/13/2002	10	ND	ND	ND	ND	ND	ND
B	05/22/2002	-	NC	NC	NC	NC	NC	ND
C	11/15/2001	8	ND	ND	ND	ND	ND	NC
C	02/13/2002	8	NR <sup>8</sup>	NR	NR	NR	NR	5.7J
C	05/22/2002	-	NC	NC	NC	NC	NC	NR
D	11/15/2001	8	ND	ND	ND	NC	NC	NC
D-duplicate	11/15/2001	8	ND	ND	ND	3.3J	ND	ND
D	02/13/2002	8	ND	ND	5.0	12.4J	ND	ND
D	05/22/2002	-	NC	NC	NC	NC	NC	ND
E	11/15/2001	4	ND	ND	ND	NC	NC	NC
E	02/13/2002	7	ND	ND	ND	25.5J	ND	3.9J
E	05/22/2002	-	NC	NC	NC	9.5	NC	ND
F	11/15/2001	6	ND	ND	ND	NC	NC	NC
F	02/13/2002	11	ND	ND	ND	8.8J	ND	10.6J
F	05/22/2002	-	NC	NC	NC	NC	NC	ND
G	11/15/2001	10	ND	ND	ND	NC	NC	NC
G	02/13/2002	7	ND	14.4	ND	ND	ND	ND
G	05/22/2002	-	NC	NC	NC	NC	NC	ND
H	11/15/2001	6	ND	ND	ND	NC	NC	NC
H	02/13/2002	4	ND	ND	ND	ND	ND	ND
H	05/22/2002	-	NC	NC	NC	NC	NC	ND
I	11/16/2001	3	ND	ND	ND	ND	ND	NC
I	02/14/2002	5	12.1	ND	ND	ND	ND	ND
I	05/22/2002	5	6.8J	ND	ND	4.7J	1.9J	ND
J	11/16/2001	8	ND	ND	ND	ND	ND	4.2J
J	02/14/2002	5	ND	ND	ND	ND	ND	ND
J	05/22/2002	8	ND	ND	ND	ND	ND	ND
K	11/16/2001	8	ND	ND	ND	4.1J	ND	7.5J
K-duplicate	11/16/2001	8	ND	ND	ND	ND	ND	3.1J
K	02/14/2002	11	ND	ND	ND	ND	ND	ND
K-duplicate	02/14/2003	11	ND	ND	ND	ND	ND	ND
K	05/22/2002	12	ND	ND	ND	ND	ND	ND
L	11/16/2001	10	3.9J	ND	ND	6.0J	ND	3.2J
L	02/14/2002	8	ND	ND	ND	ND	ND	3.1J
L	05/22/2002	10	ND	ND	ND	ND	ND	ND
L-duplicate	05/22/2002	10	ND	ND	ND	ND	ND	4.8J
								4.8J

Continued on next page

**Table 7.** Volatile organic compounds<sup>1</sup> (VOCs) detected in soil/sediment samples; Quarterly "Low-Lying Areas" Investigation; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama. [Sampling locations are shown on Figure 3.]

Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Trichloroethylene	Trichlorofluoromethane	Benzene	Toluene	M,P-Xylenes	Methylene Chloride <sup>2</sup>
			[Concentrations are in micrograms per kilogram (µg/kg)]					
			3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>	3.0 µg/kg <sup>3</sup>
M	11/16/2001	10	ND	ND	ND	ND	ND	4.8J
M	02/14/2002	10	ND	ND	ND	ND	ND	ND
M	05/22/2002	8	ND	ND	ND	3.0J	ND	3.3J
N	11/15/2001	3	50.6J	ND	ND	16.4J	ND	6.6J
N	02/13/2002	9	ND	ND	ND	ND	ND	ND
N	05/22/2002	10	ND	ND	ND	ND	ND	3.3J
O	11/15/2001	3	ND	ND	ND	3.3J	ND	3.1J
O	02/13/2002	8	ND	ND	ND	ND	ND	ND
O	05/22/2002	8	ND	5.7J	ND	4.0J	ND	4.8J
P	11/15/2001	2	ND	7.1J	ND	ND	ND	ND
P	02/13/2002	9	10.6	ND	ND	ND	ND	ND
P	05/22/2002	11	7.0J	ND	ND	ND	ND	6.7J

Notes:

- <sup>1</sup> The samples were analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.
- <sup>2</sup> Methylene Chloride detected in aqueous and soil samples is considered to have been present in the laboratory during analysis of the samples (see Table 9).
- <sup>3</sup> Method Detection Limit of 3.0 micrograms per kilogram for the soil laboratory analyses
- <sup>4</sup> ND = Not Detected
- <sup>5</sup> J = Concentration below the calibration curve, but above the detection limit
- <sup>6</sup> NC = Not Collected. Quarterly sampling (initiated after the February 2002 sampling event) comprises sample locations I through P.
- <sup>7</sup> Duplicate samples were collected for quality assurance/quality control purposes.
- <sup>8</sup> NR = Not Reported, analytical results were not reported by STL laboratories because the soil sample appeared to have something in the matrix which caused the sample not to purge.

**Table 8.** Volatile organic compounds<sup>1</sup> (VOCs) detected in surface water samples; Quarterly "Low-Lying Areas" Investigation; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama. [Sampling locations are shown on Figure 3.]

Sample Location Identifier	Sample Date	Trichloroethylene	Toluene	Methylene Chloride <sup>2</sup>
		[Concentrations are in micrograms per liter (µg/l)]		
		1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>
A	11/15/2001	ND <sup>4</sup>	ND	ND
A	02/13/2002	ND	ND	ND
A	05/22/2002	NC <sup>5</sup>	NC	NC
B	11/15/2001	NC	NC	NC
B	02/13/2002	ND	ND	ND
B - duplicate <sup>6</sup>	02/13/2002	ND	ND	ND
B	05/22/2002	NC	NC	NC
C	11/15/2001	NC	NC	NC
C	02/13/2002	ND	ND	ND
C	05/22/2002	NC	NC	NC
D	11/15/2001	NC	NC	NC
D-duplicate	11/15/2001	NC	NC	NC
D	02/13/2002	ND	ND	ND
D	05/22/2002	NC	NC	NC
E	11/15/2001	NC	NC	NC
E	02/13/2002	ND	ND	ND
E	05/22/2002	NC	NC	NC
F	11/15/2001	NC	NC	NC
F	02/13/2002	ND	1.1J <sup>7</sup>	ND
F	05/22/2002	NC	NC	NC
G	11/15/2001	NC	NC	NC
G	02/13/2002	ND	ND	ND
G	05/22/2002	NC	NC	NC
H	11/15/2001	ND	ND	ND
H	02/13/2002	ND	ND	ND
H	05/22/2002	NC	NC	NC
I	11/16/2001	4.6J	ND	ND
I	02/14/2002	5.0J	ND	ND
I	05/22/2002	2.3J	ND	ND
J	11/16/2001	2.8J	ND	ND
J	02/14/2002	3.9J	ND	ND
J	05/22/2002	1.9J	ND	ND
K	11/16/2001	4.9J	ND	ND
K-duplicate	11/16/2001	4.9J	ND	ND
K	02/14/2002	16.4J	ND	ND
K-duplicate	02/14/2003	16.2J	ND	ND
K	05/22/2002	5.5J	ND	ND

*Continued on next page*

**Table 8.** Volatile organic compounds<sup>1</sup> (VOCs) detected in surface water samples; Quarterly "Low-Lying Areas" Investigation; May 2002 Status Report; Coliseum Blvd. Plume Investigation; Montgomery, Alabama. [Sampling locations are shown on Figure 3.]

Sample Location Identifier	Sample Date	Trichloroethylene	Toluene	Methylene Chloride <sup>2</sup>
		[Concentrations are in micrograms per liter (µg/l)]		
		1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>
L	11/16/2001	2.9J	ND	ND
L	02/14/2002	7.9J	ND	ND
L	05/22/2002	2.7J	ND	ND
L-duplicate	05/22/2002	2.6J	ND	ND
M	11/16/2001	ND	ND	ND
M	02/14/2002	ND	ND	ND
M	05/22/2002	NC	NC	NC
N	11/15/2001	7.0J	ND	ND
N	02/13/2002	16.8J	ND	ND
N	05/22/2002	7.6J	ND	ND
O	11/15/2001	NC	NC	NC
O	02/13/2002	ND	ND	ND
O	05/22/2002	NC	NC	NC
P	11/15/2001	16.8J	ND	ND
P	02/13/2002	41.2	ND	ND
P	05/22/2002	22.4	ND	ND
Rinsate	11/15/2001	ND	ND	ND
Blank	11/15/2001	ND	ND	ND
Rinsate	02/13/2002	ND	ND	ND
Blank	02/13/2002	ND	ND	ND
Rinsate	05/22/2002	ND	ND	5.1J
Blank	05/22/2002	ND	ND	ND
Rinsate 2	11/16/2001	ND	ND	ND
Blank	11/16/2001	ND	ND	ND
Rinsate 2	02/14/2002	ND	ND	ND
Blank	02/14/2002	ND	ND	ND

Notes:

- <sup>1</sup> The samples were analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.
- <sup>2</sup> Methylene Chloride detected in aqueous and soil samples is considered to have been present in the laboratory during analysis of the samples (see Table 9).
- <sup>3</sup> Method Detection Limit of 1.0 microgram per liter for the aqueous laboratory analyses
- <sup>4</sup> ND - Not Detected
- <sup>5</sup> NC - Not Collected. Aqueous samples were not collected because either surface water was not present or the sampling location was not scheduled to be sampled. Quarterly sampling (initiated after the February 2002 sampling event) comprises sample locations I through P.
- <sup>6</sup> Duplicate samples were collected for quality assurance/quality control purposes.
- <sup>7</sup> J - Concentration below the calibration curve, but above the detection limit

**Table 9.** Results of analyses<sup>1</sup> of volatile organic compounds in quality assurance/quality control samples; May 2002 Status Report; Coliseum Boulevard Plume Project; Montgomery, Alabama.

Sample Date	Sample Identifier	Trichloroethylene	Chloromethane	Methylene Chloride
		(Concentrations are expressed in micrograms/liter)		
		1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>	1.0 µg/l <sup>2</sup>
05/06/2002	Blank (CMT Well 1)	ND <sup>3</sup>	ND	ND
05/07/2002	Blank (CMT Well 2)	ND	ND	ND
05/20/2002	Blank (Surface water)	ND	1.4J <sup>4</sup>	ND
05/22/2002	Blank (Low-lying area)	ND	ND	ND
05/22/2002	Equipment Blank (Low-lying area)	ND	ND	5.1J
05/22/2002	Rinsate (Low-lying area)	ND	ND	5.1J
05/22/2002	Blank (Low-lying area)	ND	ND	ND

Notes:

<sup>1</sup> The samples were analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

<sup>2</sup> MDL - Method Detection Limit of 1.0 microgram per liter for the laboratory analyses

<sup>3</sup> ND - Not detected

<sup>4</sup> J - Concentration below the calibration curve, but above the detection limit

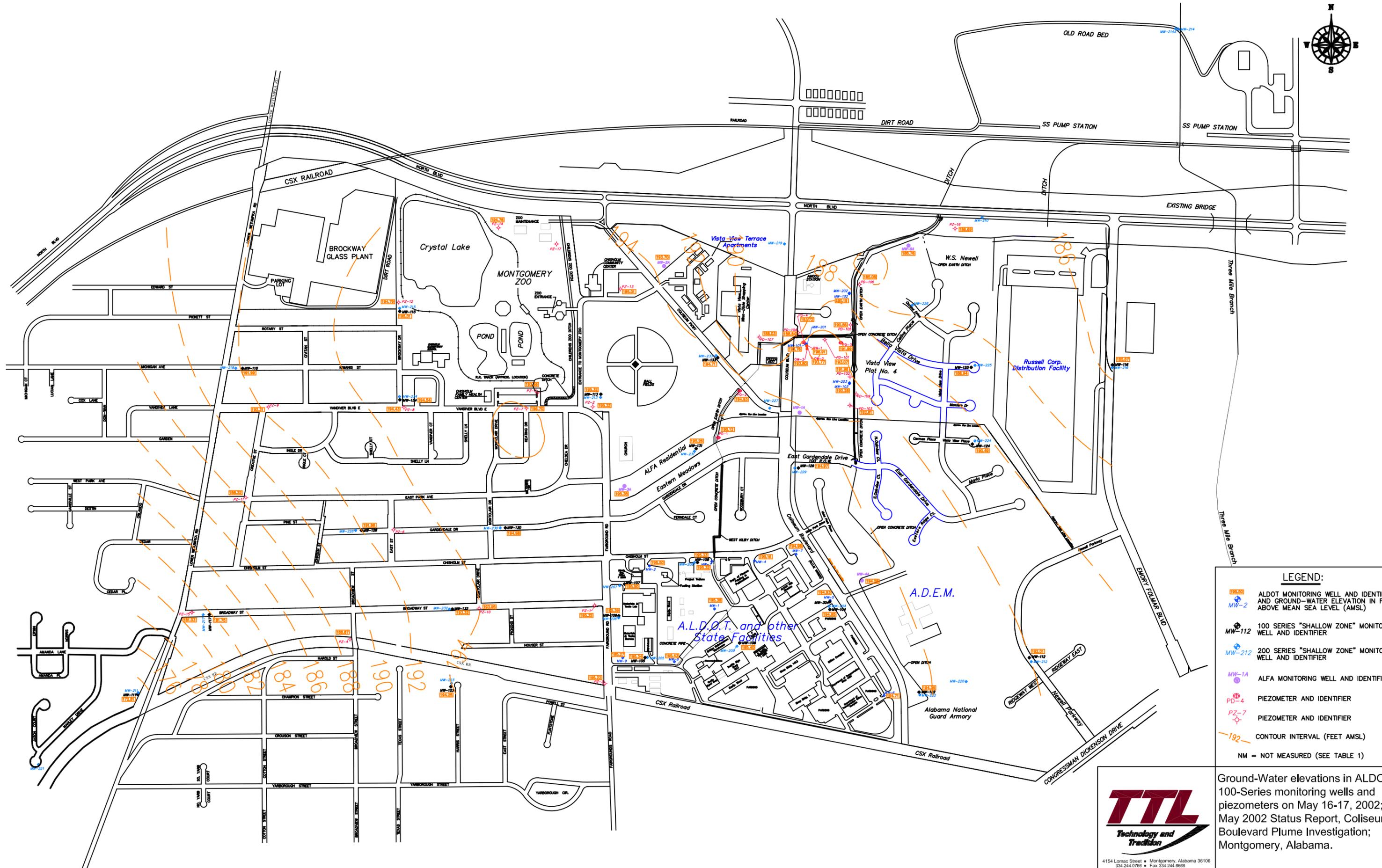


DEPARTMENT OF TRANSPORTATION

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## **PLATES**



**LEGEND:**

- ALDOT MONITORING WELL AND IDENTIFIER AND GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL)
- 100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- 200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- ALFA MONITORING WELL AND IDENTIFIER
- PIEZOMETER AND IDENTIFIER
- PIEZOMETER AND IDENTIFIER
- CONTOUR INTERVAL (FEET AMSL)
- NM = NOT MEASURED (SEE TABLE 1)

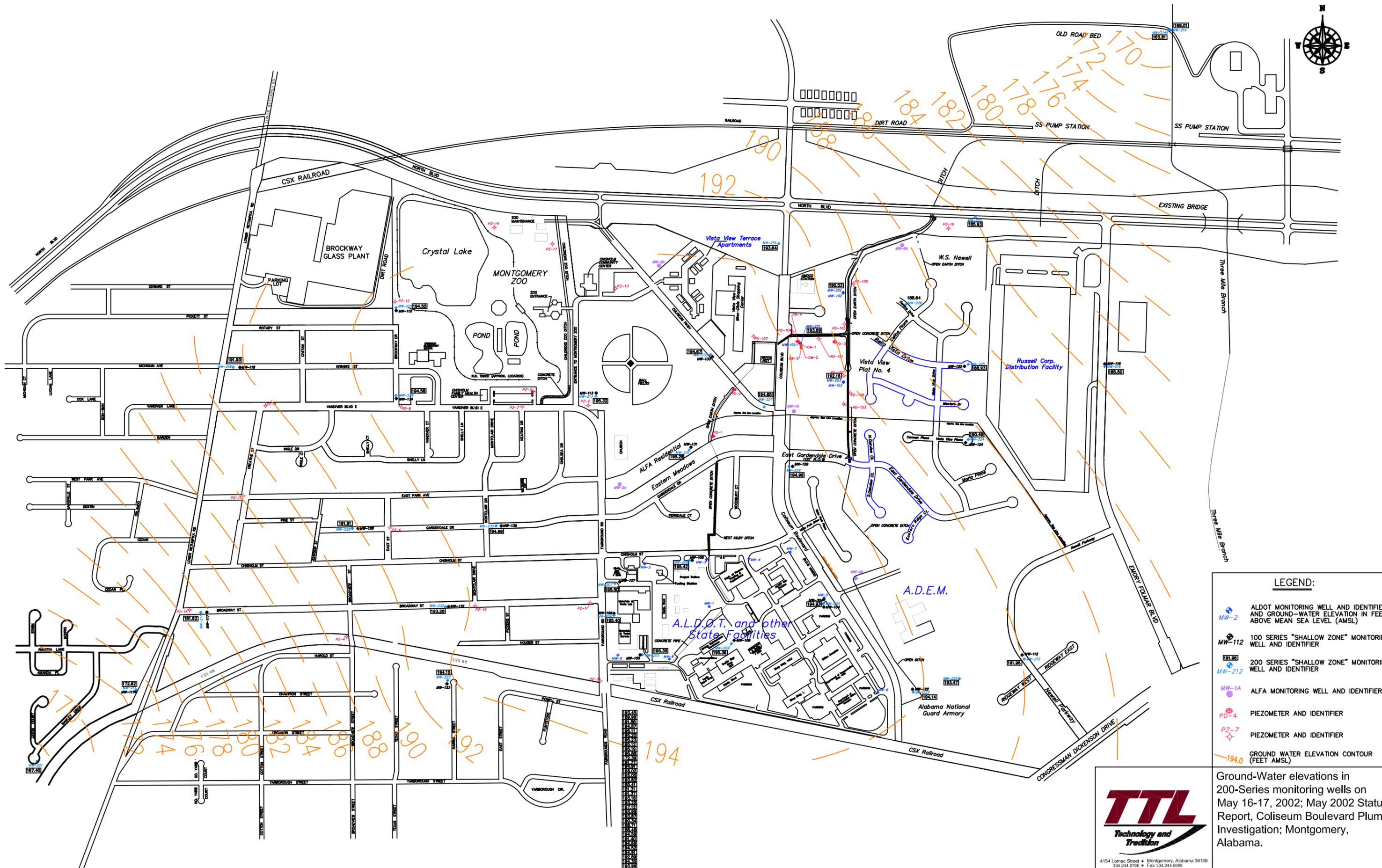


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Ground-Water elevations in ALDOT, 100-Series monitoring wells and piezometers on May 16-17, 2002; May 2002 Status Report, Coliseum Boulevard Plume Investigation; Montgomery, Alabama.

TTL PROJECT NUMBER: 0700-024  
Drawing No. 020606  
SCALE: 1" = 400'  
Plate 1

Note: Base map is a composite of an initial base map compiled by Goodwyn, Mills & Cawood Environmental Consultants, Inc. and a June 16, 2000 map by Larry E. Speaks & Associates. The June 16, 2000 map of Larry Speaks & Associates was compiled from maps provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.



**LEGEND:**

-  ALDOT MONITORING WELL AND IDENTIFIER AND GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL)
-  100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
-  200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
-  ALFA MONITORING WELL AND IDENTIFIER
-  PIEZOMETER AND IDENTIFIER
-  PIEZOMETER AND IDENTIFIER
-  GROUND WATER ELEVATION CONTOUR (FEET AMSL)

Ground-Water elevations in 200-Series monitoring wells on May 16-17, 2002; May 2002 Status Report, Coliseum Boulevard Plume Investigation; Montgomery, Alabama.



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TTL PROJECT NUMBER: 0700-024

Drawing No. 020606.1

SCALE: 1" = 400' Plate 2

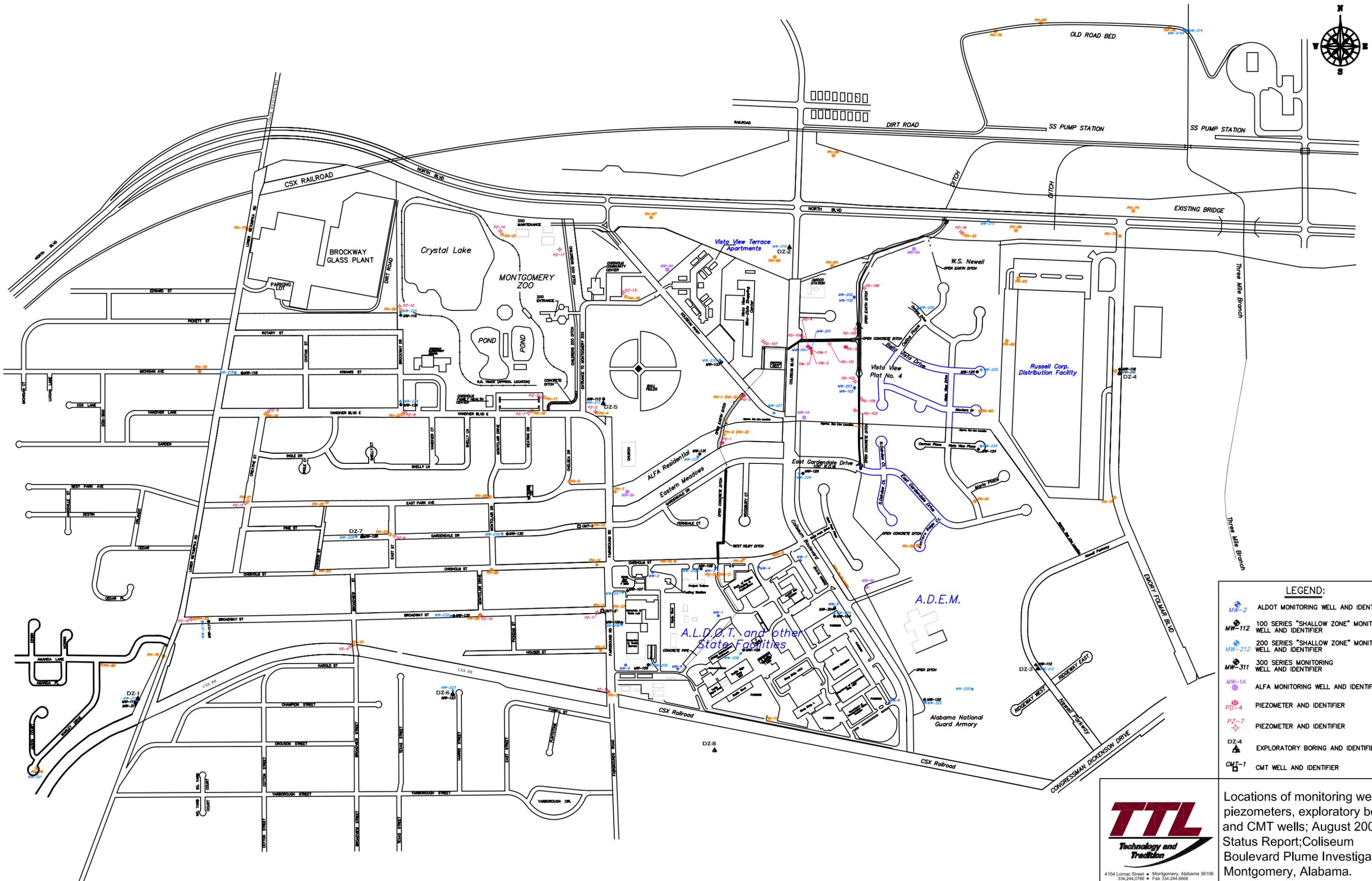
Note: Base map is a composite of an initial base map compiled by Goodwyn, Mills & Cawood Environmental Consultants, Inc. and a June 16, 2000 map by Larry E. Speaks & Associates. The June 16, 2000 map of Larry Speaks & Associates was compiled from maps provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.



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**FIGURES**



**LEGEND:**

- ALDOL MONITORING WELL AND IDENTIFIER
- 100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- 200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- 300 SERIES MONITORING WELL AND IDENTIFIER
- ALFA MONITORING WELL AND IDENTIFIER
- PIEZOMETER AND IDENTIFIER
- PIEZOMETER AND IDENTIFIER
- EXPLORATORY BORING AND IDENTIFIER
- CMT WELL AND IDENTIFIER

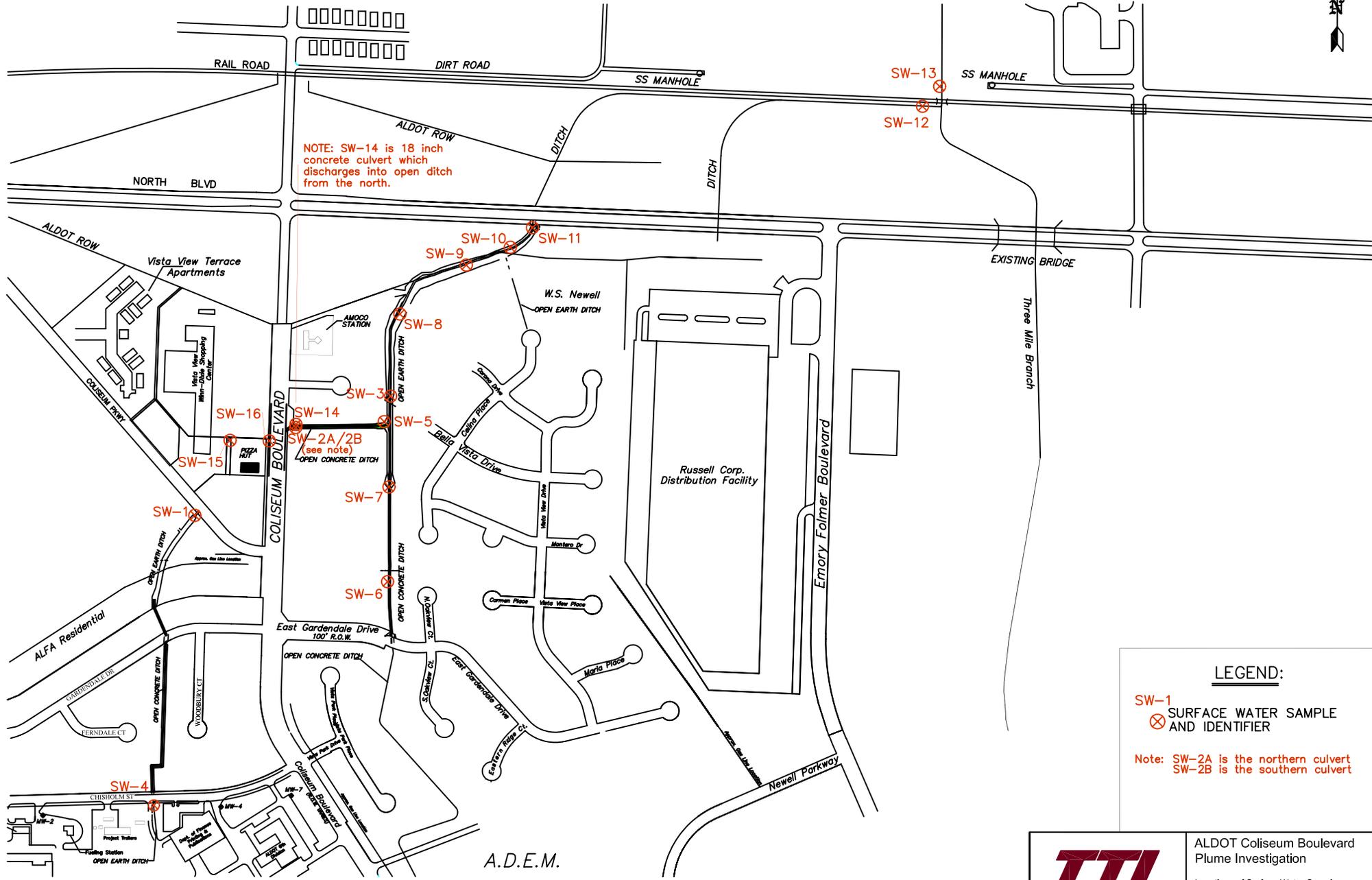


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Locations of monitoring wells, piezometers, exploratory borings and CMT wells; August 2002 Status Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama.

TTL PROJECT NUMBER: 0700-024  
Drawing No. 020326  
SCALE: 1" = 400'  
Plate 3

Note: Base map is a composite of an initial base map compiled by Goodwyn, Mills & Cawood Environmental Consultants, Inc. and a June 16, 2000 map by Larry E. Speaks & Associates. The June 16, 2000 map of Larry Speaks & Associates was compiled from maps provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.



NOTE: SW-14 is 18 inch concrete culvert which discharges into open ditch from the north.

**LEGEND:**

SW-1  
⊗ SURFACE WATER SAMPLE AND IDENTIFIER

Note: SW-2A is the northern culvert  
SW-2B is the southern culvert

A.D.E.M.

Note: Base map is a composite of an initial base map compiled by Goodwyn, Mills & Cawood Environmental Consultants, Inc. and a June 16, 2000 map by Larry E. Speaks & Associates. The June 16, 2000 map of Larry Speaks & Associates was compiled from maps provided by TTL, Inc. and the Montgomery, Alabama Tax Assessor's Office.

	ALDOT Coliseum Boulevard Plume Investigation	
	Locations of Surface Water Samples SW1-SW-16	
TTL PROJECT NUMBER: 0700-024		
4154 Lornac Street • Montgomery, Alabama 36106 334.244.0760 • Fax: 334.644.8658	SCALE: 1" = 700'	Figure 2
Drawing No. 020124		



**May 2002**  
**Status Report**  
Coliseum Boulevard Plume Investigation

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## **ATTACHMENTS**



DEPARTMENT OF TRANSPORTATION

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**May 2002  
Status Report**

Coliseum Boulevard Plume Investigation

**ATTACHMENT A  
ANALYTICAL RESULTS  
(Refer to GIS Database)**



**May 2002**  
**Status Report**  
Coliseum Boulevard Plume Investigation

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**ATTACHMENT B**  
**BORING LOG AND CONSTRUCTION DIAGRAM**  
**(FOR PIEZOMETER PZ-17)**

# TTL, Inc.

PRACTICING IN THE GEOSCIENCES  
Tuscaloosa - Montgomery - Florence

MAYNARD, COOPER & GALE  
COLISEUM BLVD. PLUME

## LOG OF PIEZOMETER PZ 17 & PIEZOMETER CONSTRUCTION

**PROJECT NUMBER** 0700-024  
**LOCATION** Montgomery, AL\*  
**DRILLING COMPANY** TTL, Inc.  
**DRILLER** J. Peak  
**DRILLING METHOD** 4 1/4" Hollow Stem Auger w/5' Continuous Sampler  
**REMARKS**  
\*Montgomery Zoo  
Water level was measured below land surface on 5/31/02

**GEOLOGIST** D. Carroll  
**DATE(S) DRILLED** 05/30/2002  
**CASING DIA./TYPE** 2" PVC  
**SCREEN SLOT/TYPE** 0.010-in. slotted PVC  
**FILTER PACK TYPE** 20-40 Graded Sand  
**TOP OF CASING** To be surveyed in June 2002  
**GROUND ELEVATION** To be surveyed in June 2002  
**DEPTH TO WATER** 9.75 Ft. BMP  
**WATER ELEVATION** To be surveyed in June 2002

Coliseum Blvd. Plume

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
0 - 4		SM	0 - 4	100		Asphalt 3" SAND and GRAVEL, well cemented		
4 - 9		SC	4 - 9	100		SAND, strong brown (7.5 YR 4/6), dark yellowish brown (10 YR 3/6), fine to medium grained with approx. 15 % fine to coarse gravel. SAND, dark gray (10 YR 4/1), fine grained, clayey		
		SM				SAND, very pale brown (10 YR 8/3), (10 YR 7/4), fine grained, silty		
		SC SM				SAND, very pale brown (10 YR 8/3), fine to medium grained, clayey/silty, with traces of mica		
9 - 14		SM	9 - 14	70		SAND, brownish yellow (10 YR 6/8), very pale brown (10 YR 8/3), fine to coarse grained, with approximately 40 % fine to coarse gravel and traces of mica.		
14 - 19		SP SM	14 - 19	60				
19 - 24		SC	19 - 24	80		SAND, very pale brown (10 YR 8/3), fine to coarse grained, clayey, with traces of mica		
BORING TERMINATED AT 24 FEET.								

F:\2000\0700\024\GINT\UPDATES\PH34\_52.GPJ 6/26/02 Report\MCG WELL LOG Template:TTL\ENV.GDT