

**SUMMARY REPORT FOR  
SAMPLING RESULTS  
FOR APRIL 19, 2006  
INVESTIGATION OF  
“LOW-LYING AREAS”**

**Coliseum Boulevard  
Plume Investigation**



**June 23, 2006**

**Submitted to:**

**The Alabama Department of Environmental Management  
Montgomery, Alabama**



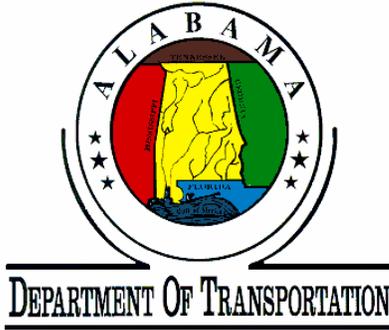
**SUMMARY REPORT FOR THE  
APRIL 19, 2006,  
SAMPLING EVENT**

**INVESTIGATION OF  
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**Introduction**

The ALDOT (Alabama Department of Transportation) is investigating the soil and groundwater for TCE (trichloroethylene) in the area known as the Coliseum Boulevard Plume in Montgomery, Alabama. The investigation is being conducted under the direction of the ADEM (Alabama Department of Environmental Management). The investigation is comprised of four general investigative areas: 1) the Kilby Ditch, 2) the Probehole 12 Area, 3) Low-Lying Areas, and 4) Site-Wide. This report contains results of samples of sediment and surface water collected from the Low-Lying Areas on April 19, 2006.

The Low-Lying Areas consist of three (3) different areas. Each of the Low-Lying Areas are located downstream (north) and/or east from the Kilby Ditch (Figure 1). The construction of roads, railroad tracks, and other human and natural activities has resulted in the impoundment of water in these Low-Lying Areas. The smallest Low-Lying area (about 2 acres) is located south of Northern Boulevard and north of Russell Corporation. Surface water in this area is recharged from Kilby Ditch, storm-water runoff, outfall from Russell Corporation, and a high water table. Between Northern Boulevard and the railroad tracks is a Low-Lying Area that is about 12 acres. North of the railroad tracks (identified as Western Railway of Alabama) is the largest Low-Lying Area in this investigation at about 33 acres in size. The water from Kilby Ditch generally continues to flow under Northern Boulevard and discharges into a perennial stream that is north of Northern Boulevard. The perennial stream continues and divides into braided streams that generally flow to the east and north. The stream(s), storm-water run-off, and springs within the Low-Lying Areas provide water into the Low-Lying Areas north of Northern Boulevard and the railroad tracks.

The surface water and sediment monitoring events for the Low-Lying Areas are being performed in accordance with Addendum 04 of the Comprehensive Work Plan. Sample locations A through H are north of the railroad tracks and are monitored less frequently because TCE has not been detected in surface water or sediment in this area. Sample locations I through M are north of Northern Boulevard but south of the railroad tracks and are monitored semi-annually. Locations N through P are south of Northern Boulevard and are currently monitored quarterly. See Table 1 and Figure 2.



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This report provides the results for the April 19, 2006, quarterly sampling event.

**Sample Collection**

On April 19, 2006, three (3) locations (location N, O, and P) were sampled for sediments and two (2) locations (location N and P) were sampled for surface-water (see Tables 2a and 2b and Figures 3 and 4). Surface water was not present at sample location O during the April 19, 2006, sampling event, therefore a sample was not collected.

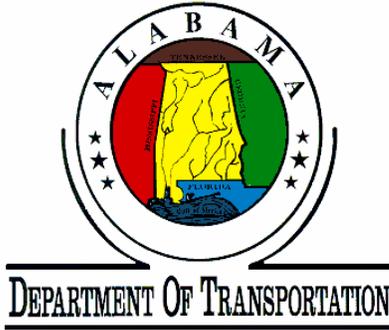
A hand auger was used to collect sediment samples at locations N, O and P on April 19, 2006. A duplicate sediment sample was collected at location N. All sediment samples were collected from the hand auger using an EnCore sampler. Sampling depth has varied as sedimentation depth is influenced by the velocity and depth of the water flow in the Low-Lying Areas. The sediment samples were collected immediately above the first stiff silt, clay, or organic layer, which was approximately 9 to 10 inches below land surface (BLS).

Surface-water samples were collected by slowly lowering an upright VOC glass vial, which contained hydrochloric acid as a preservative, into the water. The cap of the VOC vial was used to add water to form a meniscus before sealing the vial with a Teflon-lined cap.

Sediment and surface-water samples were immediately placed on ice, in a cooler, and shipped to **TTL's** laboratory in Tuscaloosa, Alabama for VOC analyses under strict chain-of-custody. The samples were analyzed for VOC's using Method 5035/8260 (sediment) and 8260 (groundwater) as outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

**Results**

The historical and current analytical results for samples collected in the Low-Lying Areas are presented in Tables 2a (sediment results) and 2b (surface water results). Analytical



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results for the April 19, 2006, sampling event are shown on Figures 3 (sediment results) and 4 (surface water results).

***Sediment***

None of the sediment samples collected from the three aforementioned locations on April 19, 2006, had reportable concentrations of constituents of concern (see Table 2a and Figure 3). Laboratory reports are included in the Attachment.

***Surface Water***

TCE concentrations were reported for each of the two surface water samples (see Table 2b and Figure 4) collected during the April 19, 2006, sampling event. TCE was reported at concentrations of 14.9J micrograms per liter ( $\mu\text{g/l}$ ) and 14.3J  $\mu\text{g/l}$  at locations N and P, respectively. In July 2005, the definition of a "J" flag was modified to flag samples with concentrations below the practical quantitation level, rather than the calibration curve values. The duplicate surface-water sample collected at location N also contained a TCE concentration of 14.8J  $\mu\text{g/l}$ . Laboratory reports are included in the Attachment.

**Recommendations**

The ALDOT recommends continuing the semi-annual monitoring for locations I through P and quarterly monitoring for locations N through P in the Low-Lying Areas. The next surface-water and sediment monitoring event of the Low-Lying Areas is scheduled for July 2006. During the July 2006 semi-annual event, samples will be collected from sampling locations I through P as approved for semi-annual monitoring.

# **TABLES**

**TABLE 1.** Sediment and Surface-Water Sample Locations in Low-Lying Area; Coliseum Boulevard Plume Investigation Site, Montgomery, Montgomery County, Alabama.

<b>Sample Location Identifier</b>	<b>Description</b>
A	Seep
B	Low point of a multi-branching channel. Water flows in from a single channel and pools until it overflows into other channels.
C	Low point of an interconnecting channel between two intermittent streams.
D	Low point of branching channels.
E	Low point of a channel (ground water seep).
F	Same as B (The pooled water empties into a single channel).
G	Confluence of intermittent stream with Three Mile Branch.
H	Depositional area (sand bar).
I	Depositional area (sand bar).
J	Depositional area (mud flat).
K	Low point (water pools).
L	Depositional area (sand bar).
M	A low point in the grassy field.
N	Culvert (water outflow).
O	Low point at bottom of hill.
P	Culvert (water inflow).

**Table 2a.** Concentrations of detected volatile organic compounds (VOCs)<sup>1</sup> in samples of sediment from the "Low-Lying Areas"; "Low-Lying Areas" April 19, 2006 Summary Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in sediment/soil samples are shown on Figure 3.]

			Sediment Lab Results									
Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Trichloroethylene	Cis-1,2-Dichloroethene	Vinyl Chloride	Benzene	Cis-1,3-Dichloropropene	M,P,O-Xylenes	Methylene Chloride <sup>2</sup>	Toluene	Trichlorofluoromethane	Ethyl Benzene
			[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>	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>
N	11/15/01	3	50.6J <sup>4</sup>	ND <sup>5</sup>	ND	ND	ND	ND	6.6J	16.4J	ND	ND
	2/13/02	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/22/02	10	ND	ND	ND	ND	ND	ND	3.3J	ND	ND	ND
	9/17/02 <sup>6</sup>	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-dup <sup>7</sup>	9/17/02 <sup>6</sup>	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N	10/31/02	12	ND	ND	ND	ND	ND	ND	ND	3.2J	ND	ND
	1/14/03 <sup>8</sup>	8	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)	ND (<1.2)
	7/21/03	2	3.6J	ND	3.0J	ND	ND	ND	ND	ND	ND	ND
	1/29/04	8	ND	ND	ND	ND	ND	5.3J	ND	3.2J	ND	ND
	7/26/04	8	ND	ND	ND	ND	ND	7.0J	ND	5.1J	ND	ND
N-dup	10/20/04	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N	1/31/05	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N	5/4/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-dup	5/4/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N	7/21/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-dup	7/21/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N	10/27/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/26/06	8	ND	ND	ND	ND	ND	ND	ND	7.1J	ND	ND
	4/19/06	9	ND	ND	ND	ND	ND	ND	ND	11.8J	ND	ND
N-dup	4/19/06	9	ND	ND	ND	ND	ND	ND	ND	14.7J	ND	ND
O	11/15/01	3	ND	ND	ND	ND	ND	ND	3.1J	3.3J	ND	ND
	2/13/02	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/22/02	8	ND	ND	ND	ND	ND	ND	4.8J	4.0J	5.7J	ND
	9/17/02 <sup>6</sup>	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/02	12	ND	ND	35.1	ND	ND	ND	ND	7.1J	ND	ND
	1/14/03 <sup>8</sup>	11	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)	ND (<1.6)
	7/21/03	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/29/04	8	750	18.8J	ND	ND	ND	31.2J	ND	15.9J	ND	5.2J
	3/9/04 <sup>9</sup>	15	104	35.4J	6.3J	ND	ND	ND	ND	5.5J	ND	ND
	4/14/04 <sup>10</sup>	8-12	ND	3.4J	3.9J	ND	ND	ND	ND	6.1J	ND	ND
	7/26/04	12	ND	3.9J	ND	ND	ND	31.4J	ND	12.1J	ND	6.8J
	10/20/04	10	54.4	5.6J	ND	ND	ND	ND	ND	4.5J	ND	ND
	1/31/05	10	ND	3.9J	ND	ND	ND	ND	ND	ND	ND	ND
	5/4/05	8	16.8J	370	5.9J	ND	ND	ND	3.1J	8.3J	ND	ND
7/21/05	8	ND	4.1J	ND	ND	ND	ND	ND	4.0J	ND	ND	
10/27/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
O-dup	10/27/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O	1/26/06	8	ND	50.6J	51.0J	5.6J	ND	ND	5.7J	37.5J	ND	ND
	4/19/06	10	ND	ND	ND	ND	ND	ND	ND	6.1J	ND	ND

**Table 2a.** Concentrations of detected volatile organic compounds (VOCs)<sup>1</sup> in samples of sediment from the "Low-Lying Areas"; "Low-Lying Areas" April 19, 2006 Summary Report; Coliseum Boulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in sediment/soil samples are shown on Figure 3.]

Sample Location Identifier	Sample Date	Approximate Sample Depth (inches)	Sediment Lab Results										
			Trichloroethylene	Cis-1,2-Dichloroethene	Vinyl Chloride	Benzene	Cis-1,3-Dichloropropene	M,P,O-Xylenes	Methylene Chloride <sup>2</sup>	Toluene	Trichlorofluoromethane	Ethyl Benzene	
			[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>	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>	
P	11/15/01	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.1J	ND
	2/13/02	9	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/22/02	11	7.0J	ND	ND	ND	ND	ND	ND	6.7J	ND	ND	ND
	9/17/02 <sup>6</sup>	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/02	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/14/03 <sup>8</sup>	10	11.0	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)
	7/21/03	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/29/04	8	12.2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/26/04	12	ND	ND	ND	ND	ND	5.5J	ND	3.9J	ND	ND	ND
	10/20/04	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/31/05	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/4/05	8	ND	ND	ND	ND	ND	ND	ND	4.6J	ND	ND	ND
	7/21/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/05	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/26/06	8	ND	ND	ND	ND	ND	ND	ND	3.9J	ND	ND	ND
4/19/06	10	ND	ND	ND	ND	ND	ND	ND	9.6J	ND	ND	ND	

**Notes:**

- <sup>1</sup> Samples were analyzed by **TTL, Inc.** in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.
- <sup>2</sup> Methylene Chloride is considered to have been present in the laboratory during analysis of the samples.
- <sup>3</sup> MDL - Method Detection Limit of 3.0 micrograms per kilogram (µg/kg) for the soil laboratory analyses
- <sup>4</sup> J - Concentration below calibration curve but above detection limit. In July 2005, the definition of a "J" flag was modified to flag samples with concentrations below the practical quantitation level, rather than the calibration curve values.
- <sup>5</sup> ND - Not Detected
- <sup>6</sup> Results on September 17, 2002, are reported on "wet-weight" basis.
- <sup>7</sup> dup - Duplicate sample collected for quality assurance/quality control purposes.
- <sup>8</sup> Sediment samples collected on 1/14/03 were analyzed by STL Laboratories because **TTL's** laboratory equipment malfunctioned. STL's method detection limits varied for some samples and are indicated in parentheses ( ).
- <sup>9</sup> In the sediment sample collected at location O on January 29, 2004, low mass and low percent solids present in the sample possibly resulted in an ambiguous level of TCE; therefore another sample was collected on March 9, 2004.
- <sup>10</sup> On April 14, 2004, location O was sampled for verification and delineation of TCE detected in the sediment samples collected on January 29 and March 9, 2004.

**Table 2b.** Concentrations of detected volatile organic compounds (VOCs)<sup>1</sup> in samples of surface water from the "Low-Lying Areas"; "Low-Lying Areas" April 19, 2006 Summary Report; Coliseum Bloulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in surface-water samples are shown on Figure 4.]

Sample Identifier	Sample Date	Aqueous Lab Results					
		Trichloroethylene	Cis-1,2-Dichloroethene	Vinyl Chloride	Chloromethane	Methylene Chloride <sup>2</sup>	Toluene
		[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>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>
N	11/15/01	7.0J <sup>4</sup>	ND <sup>5</sup>	ND	ND	ND	ND
	2/13/02	16.8J	ND	ND	ND	ND	ND
	5/22/02	7.6J	ND	ND	ND	ND	ND
	9/17/02	3.7J	ND	ND	ND	ND	ND
N-dup <sup>6</sup>	9/17/02	3.7J	ND	ND	ND	ND	ND
N	10/31/02	10.0J	ND	ND	ND	ND	ND
	1/14/03	15.2J	ND	ND	ND	ND	ND
	7/21/03	28.0	ND	ND	ND	ND	ND
	1/29/04	15.2J	ND	ND	3.2J	ND	ND
	7/26/04	11.9J	ND	ND	ND	ND	ND
N-dup	10/20/04	10.7J	ND	ND	ND	ND	ND
N-dup	10/20/04	10.4J	ND	ND	ND	ND	ND
N	1/31/05	11.2J	ND	ND	ND	ND	ND
	5/4/05	16.7J	ND	ND	ND	ND	ND
N-dup	5/4/05	16.5J	ND	ND	ND	ND	ND
N	7/21/05	18.1J	ND	ND	ND	ND	ND
N-dup	7/21/05	18.1J	ND	ND	ND	ND	ND
N	10/27/05	7.1J	ND	ND	ND	ND	ND
	1/26/06	10.4J	ND	ND	ND	ND	ND
	4/19/2006	14.9J	ND	ND	ND	ND	ND
N-dup	4/19/2006	14.8J	ND	ND	ND	ND	ND
O	11/15/01	NC <sup>7</sup>	NC	NC	NC	NC	NC
	2/13/02	ND	ND	ND	ND	ND	ND
	5/22/02	NC	NC	NC	NC	NC	NC
	9/17/02	ND	ND	ND	1.0J	ND	ND
	10/31/02	2.5J	15.3J	4.8J	ND	ND	ND
	1/14/03	4.8J	14.4J	ND	ND	ND	ND
	7/21/03	NS <sup>8</sup>	NS	NS	NS	NS	NS
	1/29/04	31.8	6.9J	ND	4.5J	ND	ND
	7/26/04	ND	5.4J	1.3J	ND	ND	ND
	10/20/04	ND	10.2J	1.7J	ND	ND	ND
	1/31/05	14.6J	18.2J	1.0J	ND	ND	ND
	5/4/05	3.1J	14.7J	1.0J	ND	ND	ND
	7/21/05	ND	1.9J	ND	ND	ND	1.6J
	10/27/05	ND	3.3J	ND	ND	ND	ND
O-dup	10/27/05	ND	2.8J	ND	ND	ND	ND
	1/26/06	17.3J	16.3J	1.8J	ND	ND	ND
	4/19/06	NS <sup>8</sup>	NS	NS	NS	NS	NS

**Table 2b.** Concentrations of detected volatile organic compounds (VOCs)<sup>1</sup> in samples of surface water from the "Low-Lying Areas"; "Low-Lying Areas" April 19, 2006 Summary Report; Coliseum Bloulevard Plume Investigation; Montgomery, Alabama. [Distributions of VOCs in surface-water samples are shown on Figure 4.]

Sample Identifier	Sample Date	Aqueous Lab Results					
		Trichloroethylene	Cis-1,2-Dichloroethene	Vinyl Chloride	Chloromethane	Methylene Chloride <sup>2</sup>	Toluene
		[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>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>	1.0 µg/l <sup>3</sup>
P	11/15/01	16.8J	ND	ND	ND	ND	ND
	2/13/02	41.2	ND	ND	ND	ND	ND
	5/22/02	22.4	ND	ND	ND	ND	ND
	9/17/02	10.5J	ND	ND	ND	ND	ND
	10/31/02	25.1	ND	ND	ND	ND	ND
	1/14/03	43.2	ND	ND	ND	ND	ND
	7/21/03	42.2	ND	ND	ND	ND	ND
	1/29/04	25.0	ND	ND	2.3J	ND	ND
	7/26/04	23.4	ND	ND	ND	ND	ND
	10/20/04	22.5	ND	ND	ND	ND	ND
	1/31/05	27.5	ND	ND	ND	ND	ND
	5/4/05	20.9	ND	ND	ND	ND	ND
	7/21/05	21.1	ND	ND	ND	ND	ND
	10/27/05	9.8J	ND	ND	ND	ND	ND
	1/26/06	20.2	ND	ND	ND	ND	ND
4/19/06	14.3J	ND	ND	ND	ND	ND	

**Notes:**

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

<sup>2</sup> Methylene Chloride is considered to have been present in the laboratory during analysis of the samples.

<sup>3</sup> MDL - Method Detection Limit of 1.0 microgram per liter (µg/l) for the aqueous laboratory analyses

<sup>4</sup> J - Concentration below calibration curve but above detection limit. In July 2005, the definition of a "J" flag was modified to flag samples with concentrations below the practical quantitation level, rather than the calibration curve values.

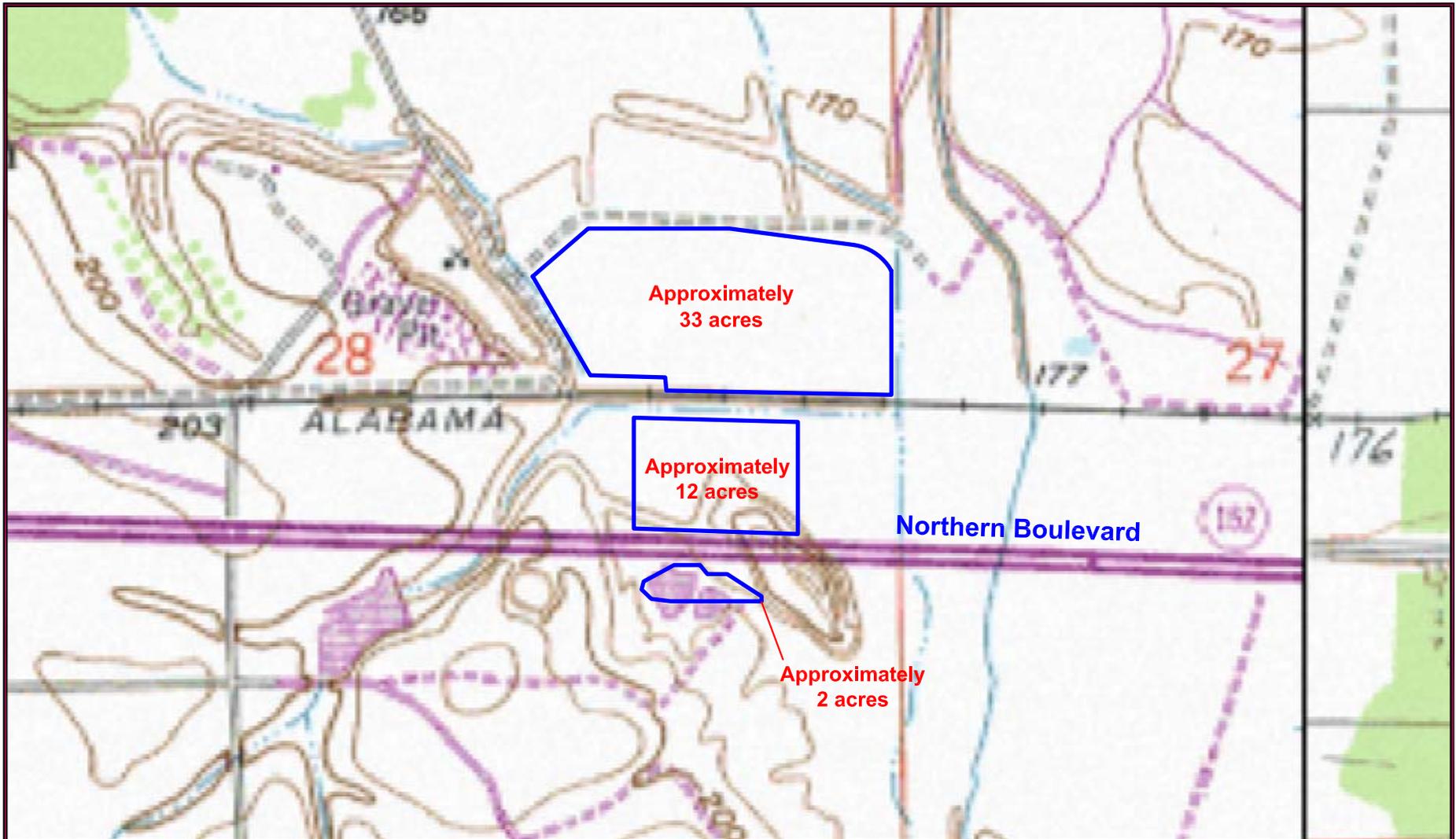
<sup>5</sup> ND - Not Detected

<sup>6</sup> dup - Duplicate sample collected for quality assurance/quality control purposes.

<sup>7</sup> NC - Not Collected; sampling location was not scheduled to be sampled. Quarterly sampling was initiated after the February 2002 sampling event and the only sample locations to be sampled are I through P.

<sup>8</sup> NS - Not sampled; sample location was not sampled because of insufficient water for analyses

# FIGURES

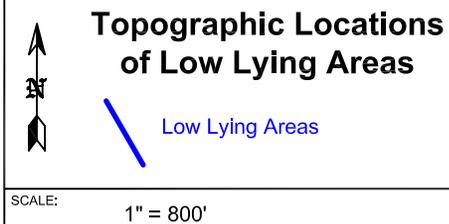


Source: Montgomery North, Alabama USGS 7.5 Minute USGS Topographic Map [1958 (Photorevised 1988)].



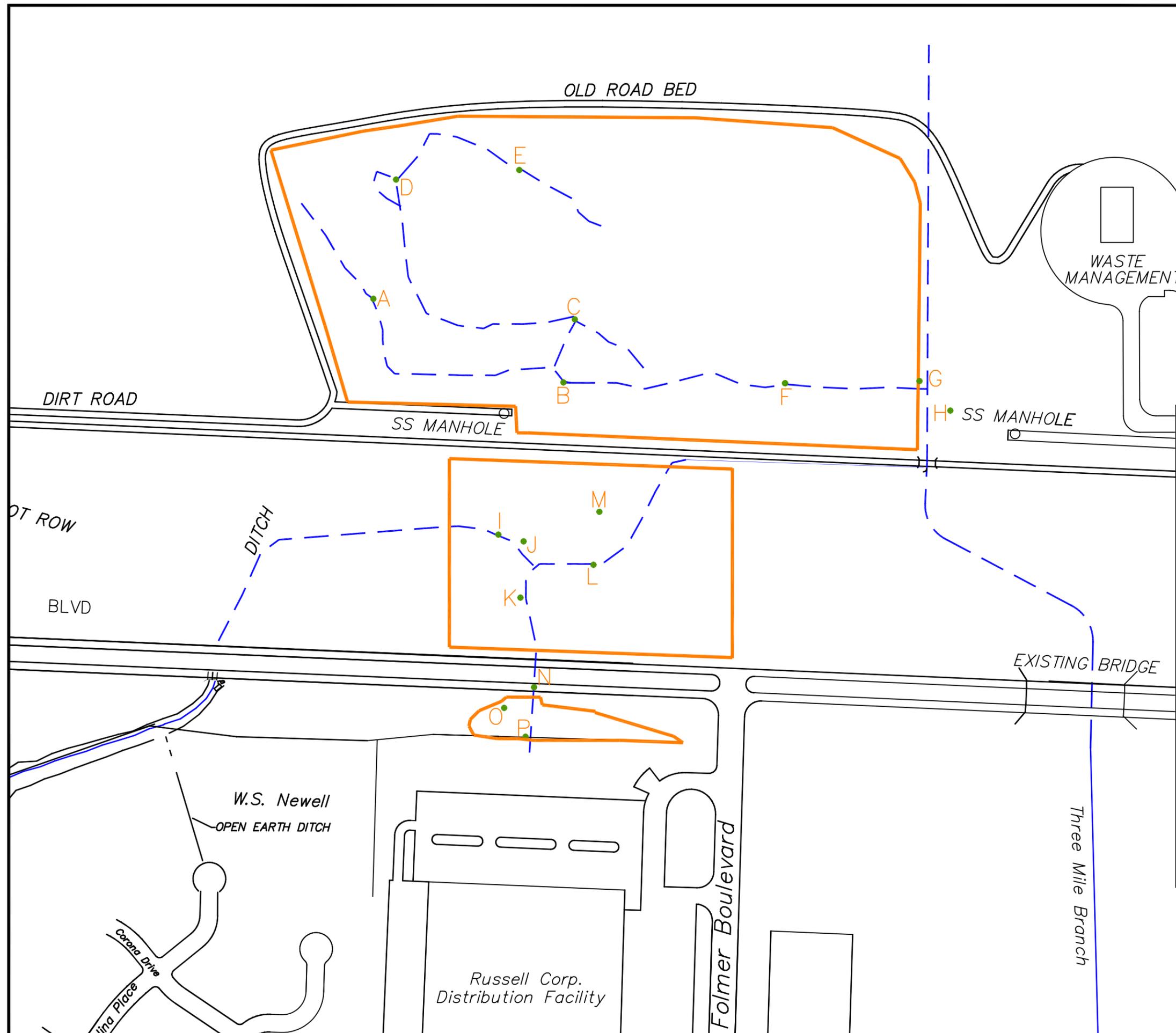
2743-B Gunter Park Drive W ■ Montgomery, Alabama 36109  
334.244.0766 ■ Fax 334.244.6668

Low Lying Areas  
Coliseum Boulevard Plume Investigation  
Alabama Department of Transportation  
Montgomery, Alabama



DRAWING PATH: F:\2000\0700\024\2005 drawings\wetland topo		TTL PROJECT NO.: <b>0700-024</b>	
DATE CREATED: 7/28/2004	DATE REVISED: N/A	REVISION NUMBER: N/A	
DRAWN BY: MMM	INITIAL: KDH	CHECKED BY:	INITIAL:
APPROVED: ASHLEY COUSINS, P.E., CHMM		SIGNATURE:	

FIGURE 1



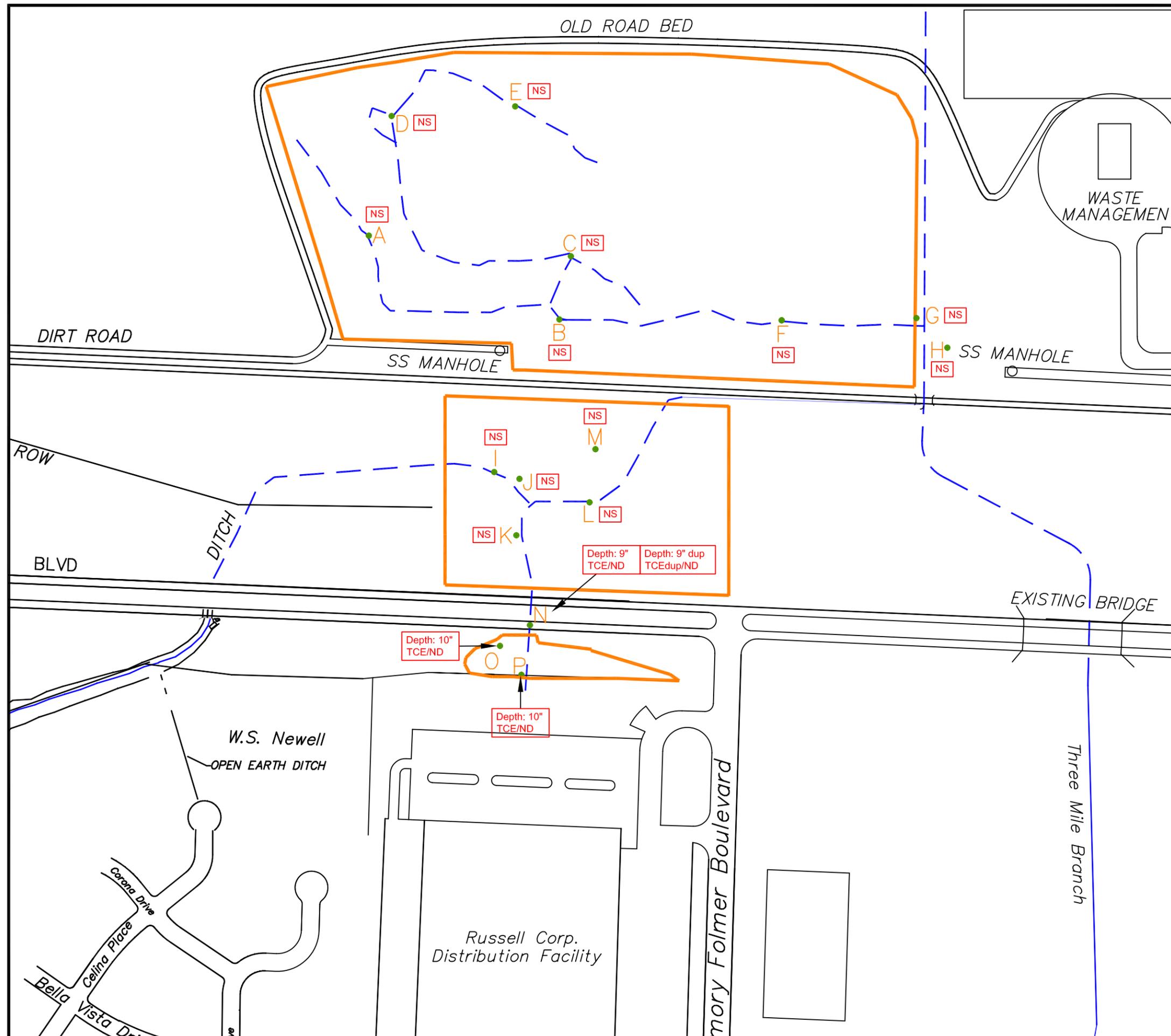
**LEGEND:**

-  Boundary of Low Lying Area
-  Sample location and Identifier
-  Approximate locations of intermittent streams

ALDOT Coliseum Boulevard Plume Investigation



Sample locations and identifiers. April 19, 2006 Sampling Event. "Low-Lying Areas." Coliseum Boulevard Plume. Montgomery, Alabama.



**LEGEND:**

- Depth: 9"  
TCE/ND Depth In Inches (BLS)  
TCE/concentration ug/kg  
Method Detection Limit (MDL)=3.0 micrograms per kilogram (ug/kg)
- J Estimated (concentration below the practical quantitation level, rather than the calibration curve values)
- dup Duplicate sample
- NS Not Sampled
- Boundary of Low Lying Area
- M • Sample location and Identifier
- — — — — Approximate locations of intermittent streams

**ALDOT Coliseum Boulevard Plume Investigation**



2743-B Gunter Park Drive W ■ Montgomery, Alabama 36109  
334.244.0766 ■ Fax 334.244.6668

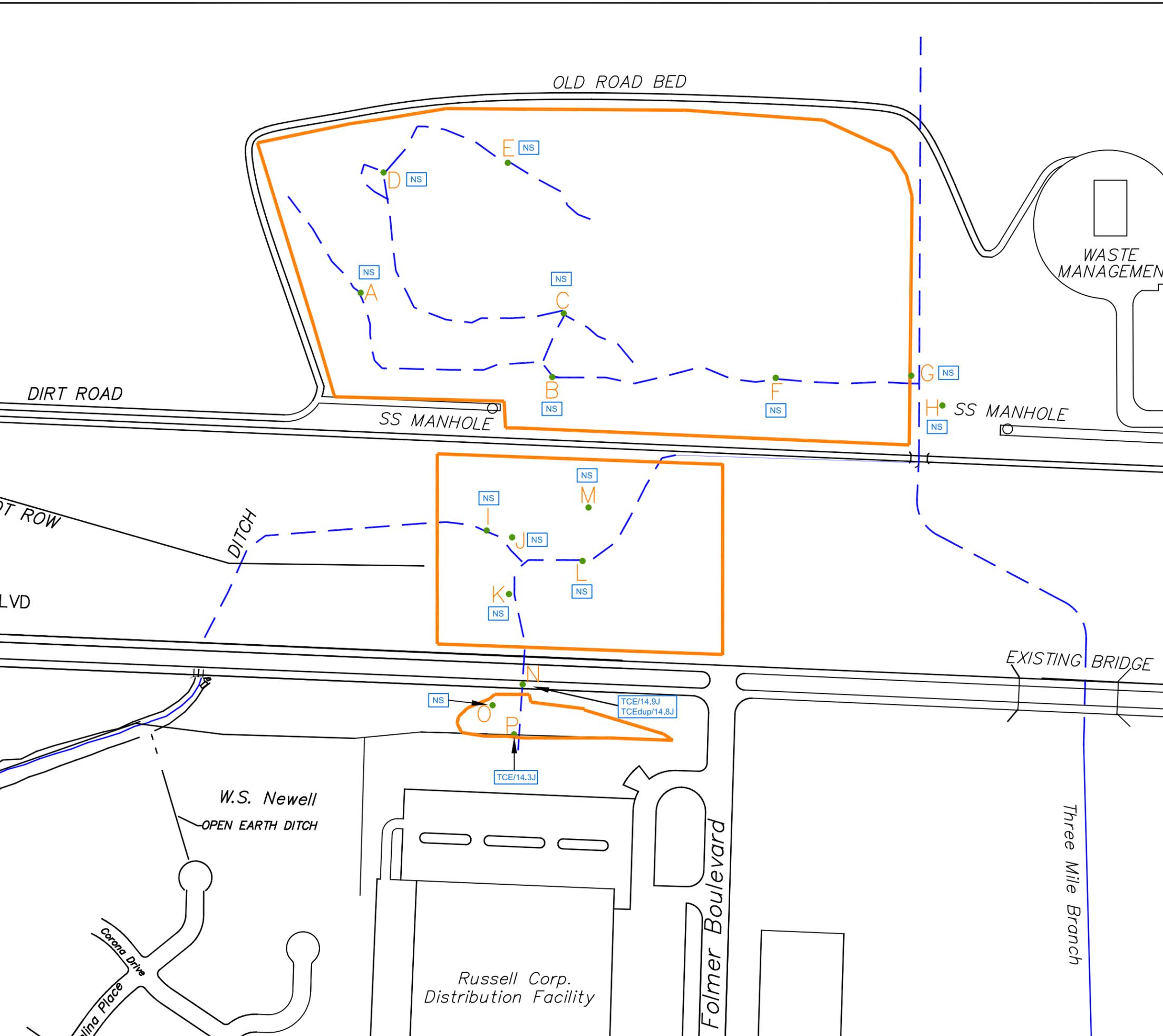
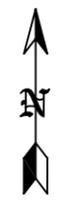
Analytical results of sediment samples collected from Low-Lying Areas on April 19, 2006. Work Plan 04- Investigation of "Low-Lying Areas"; Coliseum Boulevard Plume; Montgomery, Alabama.

TTL PROJECT NUMBER:0700-024

Drawing No. 060620

SCALE: 1" = 300'

Figure 3



**LEGEND:**

- TCE/ND TCE/concentration ug/L  
Method Detection Limit (MDL)=1.0 micrograms per liter (ug/L)
- J Estimated (concentration below the practical quantitation level, rather than the calibration curve values)
- NS Not Sampled
- Boundary of Low Lying Area
- M • Sample location and Identifier
- ~ Approximate locations of intermittent streams

**ALDOT Coliseum Boulevard Plume Investigation**



2743-B Gunter Park Drive W ■ Montgomery, Alabama 36109  
334.244.0766 ■ Fax 334.244.6668

Analytical results of surficial water samples collected from Low-Lying Areas on April 19, 2006. Work plan 04- Investigation of "Low-Lying Areas"; Coliseum Boulevard Plume; Montgomery, Alabama.

TTL PROJECT NUMBER:0700-024

Drawing No. 060620.1

SCALE: 1" = 300'

Figure 4

**ATTACHMENT**



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

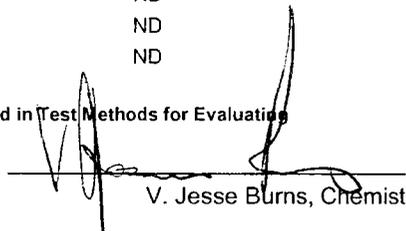
205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 26, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Soil  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** N-9"  
**TTL Lab Number:** 060420013-001A  
**TTL Job Number:** 0700-024

## VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/Kg	FLAG*
Chloromethane	3.0	ND
Vinyl Chloride	3.0	ND
Chloroethane	3.0	ND
Trichlorofluoromethane	3.0	ND
1,1-Dichloroethene	3.0	ND
Methylene Chloride	3.0	ND
Trans-1,2-Dichloroethene	3.0	ND
1,1-Dichloroethane	3.0	ND
Cis-1,2-Dichloroethene	3.0	ND
Chloroform	3.0	ND
1,1,1-Trichloroethane	3.0	ND
Carbon Tetrachloride	3.0	ND
Benzene	3.0	ND
1,2-Dichloroethane	3.0	ND
Trichloroethylene	3.0	ND
1,2-Dichloropropane	3.0	ND
Bromodichloromethane	3.0	ND
Cis-1,3-Dichloropropene	3.0	ND
Toluene	11.8	J
Trans-1,3-Dichloropropene	3.0	ND
1,1,2-Trichloroethane	3.0	ND
Tetrachloroethylene	3.0	ND
Dibromochloromethane	3.0	ND
Chlorobenzene	3.0	ND
1,1,1,2-Tetrachloroethane	3.0	ND
Ethyl Benzene	3.0	ND
M,P-Xylenes	3.0	ND
O-Xylene	3.0	ND
Bromoform	3.0	ND
1,1,2,2-Tetrachloroethane	3.0	ND
1,3-Dichlorobenzene	3.0	ND
1,4-Dichlorobenzene	3.0	ND
1,2-Dichlorobenzene	3.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.



V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.

\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

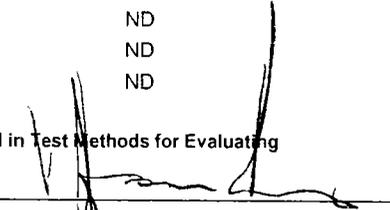
205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 26, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Soil  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** N-9"DUP  
**TTL Lab Number:** 060420013-002A  
**TTL Job Number:** 0700-024

VOLATILE ORGANIC HYDROCARBONS

<u>COMPOUNDS</u>	<u>RESULTS, µg/Kg</u>	<u>FLAG*</u>
Chloromethane	3.0	ND
Vinyl Chloride	3.0	ND
Chloroethane	3.0	ND
Trichlorofluoromethane	3.0	ND
1,1-Dichloroethene	3.0	ND
Methylene Chloride	3.0	ND
Trans-1,2-Dichloroethene	3.0	ND
1,1-Dichloroethane	3.0	ND
Cis-1,2-Dichloroethene	3.0	ND
Chloroform	3.0	ND
1,1,1-Trichloroethane	3.0	ND
Carbon Tetrachloride	3.0	ND
Benzene	3.0	ND
1,2-Dichloroethane	3.0	ND
Trichloroethylene	3.0	ND
1,2-Dichloropropane	3.0	ND
Bromodichloromethane	3.0	ND
Cis-1,3-Dichloropropene	3.0	ND
Toluene	14.7	J
Trans-1,3-Dichloropropene	3.0	ND
1,1,2-Trichloroethane	3.0	ND
Tetrachloroethylene	3.0	ND
Dibromochloromethane	3.0	ND
Chlorobenzene	3.0	ND
1,1,1,2-Tetrachloroethane	3.0	ND
Ethyl Benzene	3.0	ND
M,P-Xylenes	3.0	ND
O-Xylene	3.0	ND
Bromoform	3.0	ND
1,1,2,2-Tetrachloroethane	3.0	ND
1,3-Dichlorobenzene	3.0	ND
1,4-Dichlorobenzene	3.0	ND
1,2-Dichlorobenzene	3.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.



V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.

\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

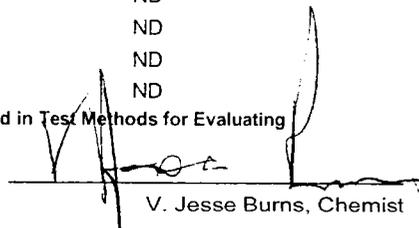
205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 26, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Soil  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** P-10"  
**TTL Lab Number:** 060420013-003A  
**TTL Job Number:** 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, ug/Kg	FLAG*
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	9.6	J
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

  
V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.  
\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 26, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Soil  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** O-10"  
**TTL Lab Number:** 060420013-004A  
**TTL Job Number:** 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/Kg	FLAG*
Chloromethane:	3.0	ND
Vinyl Chloride:	3.0	ND
Chloroethane:	3.0	ND
Trichlorofluoromethane:	3.0	ND
1,1-Dichloroethene:	3.0	ND
Methylene Chloride:	3.0	ND
Trans-1,2-Dichloroethene:	3.0	ND
1,1-Dichloroethane:	3.0	ND
Cis-1,2-Dichloroethene:	3.0	ND
Chloroform:	3.0	ND
1,1,1-Trichloroethane:	3.0	ND
Carbon Tetrachloride:	3.0	ND
Benzene:	3.0	ND
1,2-Dichloroethane:	3.0	ND
Trichloroethylene:	3.0	ND
1,2-Dichloropropane:	3.0	ND
Bromodichloromethane:	3.0	ND
CIS-1,3-Dichloropropene:	3.0	ND
Toluene:	6.1	J
Trans-1,3-Dichloropropene:	3.0	ND
1,1,2-Trichloroethane:	3.0	ND
Tetrachloroethylene:	3.0	ND
Dibromochloromethane:	3.0	ND
Chlorobenzene:	3.0	ND
1,1,1,2-Tetrachloroethane:	3.0	ND
Ethylbenzene:	3.0	ND
M,P-Xylenes:	3.0	ND
O-Xylene:	3.0	ND
Bromoform:	3.0	ND
1,1,2,2-Tetrachloroethane:	3.0	ND
1,3-Dichlorobenzene:	3.0	ND
1,4-Dichlorobenzene:	3.0	ND
1,2-Dichlorobenzene:	3.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.  
\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



TTL WORK  
ORDER NUMBER  
060420013

Chain of Custody Form

Sample Security Requirements

Sheet 1 of 1

Client: ALDOT  
 Contact: Brannon McDonald  
 Mailing Address: 2743-B Gunter Park Drive West  
 City, State, Zip: Montgomery, Alabama 36109  
 Phone No.: (334) 244-0766  
 Date: 4.19.06  
 Sampled By: Beppie Robinson  
 Sample Site: Coliseum Boulevard Plume Investigation  
 TTL Job No.: 0700-024 Client P.O. #

- Condition of Contents: good
- Sealed for Shipping By: RRR
- Initial Contents Temp.: Ice °C Seal Applied Yes  No
- Sampling Status: Complete Expected Completion Date \_\_\_\_\_
- Custody Seal Intact Upon Receipt by Laboratory: Yes  No
- Condition of Contents: [Signature]
- Comments: Shipped Greenboard
- Reporting Status: Routine; ASAP By \_\_\_\_\_; Rush By \_\_\_\_\_

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
4/19	1:30	N - 9"	Solid	X		4	Ice	VOC
	1:30	N - Duplicate 9"						
	1:45	P - 10"						
	2:00	O - 10"						

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time  
 1. [Signature] 4.19.06 18:00 Received by (signed) Date/Time  
 2. [Signature] 4/20/06 8:55A  
 3. \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

SHIPPING DETAILS

Air Bill #: 621 303336 5753  
 Method of Shipment: BUS  
 Received By Lab: [Signature]  
 Date/Time: 4/20/06 8:55 am

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992  
 TTL, Inc. - Montgomery Office: 4154 Lomac Street, Montgomery, Alabama 36106, Telephone (334) 244-0766, FAX (334) 244-6668  
 TTL, Inc. - Florence Office: 523 South Wood Avenue, Florence, Alabama 35630, Telephone (256) 766-4622, FAX (256) 760-4626  
 TTL, Inc. - Decatur Office: 310 Bank Street, Decatur, Alabama 35601, Telephone (256) 353-2910, FAX (256) 353-3944

NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.

RI PPD

19APR06 06:10P

\*\* LABEL \*\*

Sched: COP 0598  
TUSCALOOSA, AL

GLI 303337718:



Pcs: 1 of 1

From: TTL INC  
205-345-0816

REC'D: TTL

C/O BUS STATION  
HOLD AT STATION

TUSCALOOSA, AL 35401

Phone: 205-345-0816

Manual Wght:

30.3

Tariff Wght:

31.0

PO/Ref #:



Chain of Custody Form

Sample Security Requirements

Client: ALDOT

Contact: Brannon McDonald

Mailing Address: 2743-B Gunter Park Drive West

City, State, Zip: Montgomery, Alabama 36109

Phone No.: (334) 244-0756

Date: 4/19/06

Sampled By: Reppie Robinson

Sample Site: Coliseum Boulevard Plume Investigation

TTL Job No.: 0700-024 Client P.O. # \_\_\_\_\_

1. Condition of Contents: \_\_\_\_\_

2. Sealed for Shipping By: \_\_\_\_\_

3. Initial Contents Temp.: \_\_\_\_\_ °C Seal Applied Yes  No

4. Sampling Status: Complete Expected Completion Date \_\_\_\_\_

5. Custody Seal Intact Upon Receipt by Laboratory: Yes  No

6. Condition of Contents: \_\_\_\_\_

7. Comments: \_\_\_\_\_

8. Reporting Status: Routine; ASAP By \_\_\_\_\_ ; Rush By \_\_\_\_\_

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
4/19	1:30	N-17	Solid, Etc.	✓		4	Ice	VOC
↓	1:30	N-17	↓	↓		↓	↓	↓
↓	1:15	D-10	↓	↓		↓	↓	↓
↓	2:00	O-10	↓	↓		↓	↓	↓

CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Date/Time \_\_\_\_\_

1 [Signature] \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

2 [Signature] \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

3 \_\_\_\_\_

SHIPPING DETAILS

Air Bill #: 667 30333651753

Method of Shipment: Bus

Received By Lab: [Signature]

Date/Time: 4/20/06 8:35 AM

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992

TTL, Inc. - Montgomery Office: 4154 Lomac Street, Montgomery, Alabama 36106, Telephone (334) 244-0766, FAX (334) 244-6668

TTL, Inc. - Florence Office: 523 South Wood Avenue, Florence, Alabama 35630, Telephone (256) 766-4622, FAX (256) 760-4626

TTL, Inc. - Decatur Office: 310 Bank Street, Decatur, Alabama 35601, Telephone (256) 353-2910, FAX (256) 353-3944

NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

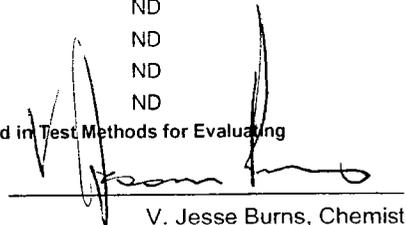
205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 21, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Surface Water  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** N  
**TTL Lab Number:** 060420012-001A  
**TTL Job Number:** 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, µg/L	FLAG*
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	14.9	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

  
V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.

\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 21, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Surface Water  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** N-DUP  
**TTL Lab Number:** 060420012-002A  
**TTL Job Number:** 0700-024

VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, $\mu\text{g/L}$	FLAG*
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	14.8	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.

  
V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.  
\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

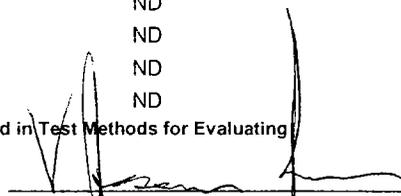
205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 21, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Surface Water  
**Sampled By:** TTL Personnel (RER)  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** P  
**TTL Lab Number:** 060420012-003A  
**TTL Job Number:** 0700-024

## VOLATILE ORGANIC HYDROCARBONS

COMPOUNDS	RESULTS, $\mu\text{g/L}$	FLAG*
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	14.3	J
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.



V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.

\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



3516 Greensboro Avenue  
P O Drawer 1128 (35403)  
Tuscaloosa, AL 35401

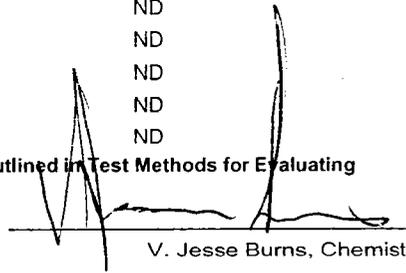
205.345.0816 tel  
205.343.0635 fax  
www.TTLINC.com

**Client:** Alabama Department of Transportation  
**Sample Date:** April 19, 2006  
**Date Analyzed:** April 21, 2006  
**Analyzed By:** TTL Personnel (VJB)  
**Sample Type:** Aqueous  
**Sampled By:** TTL Lab Personnel  
**Sample Site:** Coliseum Boulevard Plume, Montgomery, AL  
**Sample ID:** Blank (N, N-DUP, P)  
**TTL Lab Number:** 060420012-004A  
**TTL Job Number:** 0700-024

**VOLATILE ORGANIC HYDROCARBONS**

<u>COMPOUNDS</u>	<u>RESULTS, µg/L</u>	<u>FLAG*</u>
Chloromethane:	1.0	ND
Vinyl Chloride:	1.0	ND
Chloroethane:	1.0	ND
Trichlorofluoromethane:	1.0	ND
1,1-Dichloroethene:	1.0	ND
Methylene Chloride:	1.0	ND
Trans-1,2-Dichloroethene:	1.0	ND
1,1-Dichloroethane:	1.0	ND
Cis-1,2-Dichloroethene:	1.0	ND
Chloroform:	1.0	ND
1,1,1-Trichloroethane:	1.0	ND
Carbon Tetrachloride:	1.0	ND
Benzene:	1.0	ND
1,2-Dichloroethane:	1.0	ND
Trichloroethylene:	1.0	ND
1,2-Dichloropropane:	1.0	ND
Bromodichloromethane:	1.0	ND
CIS-1,3-Dichloropropene:	1.0	ND
Toluene:	1.0	ND
Trans-1,3-Dichloropropene:	1.0	ND
1,1,2-Trichloroethane:	1.0	ND
Tetrachloroethylene:	1.0	ND
Dibromochloromethane:	1.0	ND
Chlorobenzene:	1.0	ND
1,1,1,2-Tetrachloroethane:	1.0	ND
Ethylbenzene:	1.0	ND
M,P-Xylenes:	1.0	ND
O-Xylene:	1.0	ND
Bromoform:	1.0	ND
1,1,2,2-Tetrachloroethane:	1.0	ND
1,3-Dichlorobenzene:	1.0	ND
1,4-Dichlorobenzene:	1.0	ND
1,2-Dichlorobenzene:	1.0	ND

The sample was analyzed in accordance with Method 8260 outlined in Test Methods for Evaluating Solid Waste Physical/Chemical Methods, EPA, SW-846.



V. Jesse Burns, Chemist

\*\* The sample was reanalyzed out of holding time.  
\* J = reportable concentration less than the lowest concentration level of the instrument calibration curve but above the detection limit. ND = concentration of the compound cannot be found at or above the detection limit. B = concentration of the compound was found above the detection limit in the laboratory blank sample. Blank = a reportable contaminant present.



TTL WORK  
ORDER NUMBER  
**060420012**

Sheet 1 of 1

**Chain of Custody Form**

**Sample Security Requirements**

Client: ALDOT  
 Contact: Brannon McDonald  
 Mailing Address: 2743-B Gunter Park Drive West  
 City, State, Zip: Montgomery, Alabama 36109  
 Phone No.: (334) 244-0766  
 Date: 4.19.06  
 Sampled By: Reggie Robinson  
 Sample Site: Coliseum Boulevard Plume Investigation  
 1. Condition of Contents: good  
 2. Sealed for Shipping By: Red  
 3. Initial Contents Temp.: Ice °C Seal Applied Yes L No  
 4. Sampling Status: complete Expected Completion Date  
 5. Custody Seal Intact Upon Receipt by Laboratory: Yes No  
 6. Condition of Contents: Good  
 7. Comments: Shipped Corey hand  
 8. Reporting Status: Routine; ASAP By \_\_\_\_\_ ; Rush By \_\_\_\_\_

TTL Job No.: 0700-024 Client P.O. # \_\_\_\_\_

Date	Time	Sample ID/Description	Sample Type <small>Solid, Etc.</small>	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
4-19	1:30	N	Granulite	X		3	HCl	VOC
	↓	N-Dup		↓				
	1:45	P.		↓				
	↓	Trip Blanks	Agass	↓				

**CUSTODY TRANSFERS PRIOR TO SHIPPING**

Relinquished by: (signed) [Signature] Date/Time 4:19.06 18:30  
 Received by: (signed) [Signature] Date/Time 4/20/06 8:30A  
 1  
 2  
 3

**SHIPPING DETAILS**

Air Bill #: 6013033305153  
 Method of Shipment: FLS  
 Received By Lab: [Signature]  
 Date/Time: 4/20/06 8:55 AM

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992  
 TTL, Inc. - Montgomery Office: 4154 Lomac Street, Montgomery, Alabama 36106, Telephone (334) 244-0766, FAX (334) 244-6668  
 TTL, Inc. - Florence Office: 523 South Wood Avenue, Florence, Alabama 35630, Telephone (256) 766-4622, FAX (256) 760-4626  
 TTL, Inc. - Decatur Office: 310 Bank Street, Decatur, Alabama 35601, Telephone (256) 353-2910, FAX (256) 353-3944

NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.

RI PPD

19APR06 06:10P

\*\* INTERLINE \*\*

GLI 3033377182



Schd: GLI 1523

Pcs: 1 of 1

From: MONTGOMERY, AL  
To: TUSCALOOSA, AL

From: BIRMINGHAM, AL  
To: TUSCALOOSA, AL

Priority

P EXPRS \$ 29.10 C EXPRS  
D VALUE C VALUE



### Chain of Custody Form

### Sample Security Requirements

1. Condition of Contents: Good
2. Sealed for Shipping By: RLK
3. Initial Contents Temp: 70 °C Seal Applied Yes L No —
4. Sampling Status: Complete Expected Completion Date —
5. Custody Seal Intact Upon Receipt by Laboratory: Yes Good No —
6. Condition of Contents: Good
7. Comments: See next page
8. Reporting Status: Routine; ASAP By —; Rush By —

Client: ALDOT  
 Contact: Brannon McDonald  
 Mailing Address: 2743-B Gunter Park Drive West  
 City, State, Zip: Montgomery, Alabama 36109  
 Phone No.: (334) 244-0766  
 Date: 4-17-06  
 Sampled By: Reggie Robinson  
 Sample Site: Coliseum Boulevard Plume Investigation  
 TTL Job No.: 0700-024 Client P.O. # —

Date	Time	Sample ID/Description	Sample Type	Sample Method		# of Containers	Preservatives	Analysis Parameters
				Grab	Comp			
4/17	1:30	N	Gas	X		1	PTI	VOC
4/17	1:45	N - Top	Gas	X		1	PTI	VOC
4/17	1:45	P	Gas	X		1	PTI	VOC
4/17	1:45	Top - Details	Gas	X		1	PTI	VOC

### SHIPPING DETAILS

Air Bill #: 6613033FLS133  
 Method of Shipment: Express  
 Received By Lab: [Signature]  
 Date/Time: 4/17/06 8:50 AM

### CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) [Signature] Date/Time: 4/17/06 1:30  
 Received by (signed) [Signature] Date/Time: 4/17/06 1:30  
 1 [Signature] Date/Time: 4/17/06 1:30  
 2 [Signature] Date/Time: 4/17/06 1:30  
 3 [Signature] Date/Time: 4/17/06 1:30

TTL, Inc. - Tuscaloosa Office/Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 345-0992  
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 NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.