November 2006 through January 2007 Status Report

Coliseum Boulevard Plume Site
Montgomery, Alabama

Submitted By:

Alabama Department of Transportation
1409 Coliseum Boulevard
Montgomery, Alabama

March 2007

November 2006 through January 2007 Status Report

Coliseum Boulevard Plume Investigation

DEPARTMENT OF TRANSPORTATION

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November 2006 through January 2007
Status Report

Summary

During the period between November 1, 2006, and January 31, 2007, investigations at the Coliseum Boulevard Plume (CBP) site continued.

Routine monitoring of selected groundwater monitoring wells and continuous multi-channel tubing (CMT) wells, the Kilby Ditch and the “Low-Lying Areas” was conducted in January 2007 in accordance with the approved plans and is summarized in Section I. This report contains results of samples collected for the January 2007 Sampling Event.

Section II contains information about the waste and wastewater generated during the course of the investigation during this period.

Section III contains a summary of quality assurance/quality control (QA/QC) samples collected during this period.

I. Routine Monitoring

Water Level Measurements

December 26 through December 28, 2006: Depths to ground water were measured in piezometers, monitoring wells, CMT wells, and pump test wells associated with the Coliseum Boulevard Plume Investigation. Groundwater elevations are provided in Tables 1a through 1f. Groundwater elevation contours for the 100 and 200 series "shallow zone" monitoring wells and piezometers are shown on Figures 1 and 2, respectively.

Depths to ground water measured in continuous multi-channel tubing (CMT) wells 1 through 7 are reported in Table 2. CMT 3-1 and 4-1 were dry for this event.

Annual Sampling Event (Modification to Addendum 13 Work Plan)

An annual sampling event under the Modification to Addendum 13 – Ground Water Monitoring Plan (dated March 17, 2005) was conducted in January 2007. Groundwater samples were collected from 108 monitoring wells at the Coliseum Boulevard Plume site for analyses of VOCs.

January 2007: During the annual sampling event of the approved modified groundwater monitoring program, samples were collected from the following 108 wells located at the Coliseum Boulevard Plume (CBP) site.

MW-101	MW-206	MW-212	MW-218	MW-228	MW-234	MW-238C	MW-246B	MW-252B
MW-201	MW-107	MW-113	MW-219	MW-129	MW-135A	MW-339	MW-147A	MW-153
MW-102	MW-207	MW-213	MW-221	MW-229	MW-235B	MW-340	MW-247B	MW-154
MW-202	MW-108	MW-214	MW-123	MW-130	MW-235C	MW-341	MW-149A	MW-155
MW-103	MW-208	MW-214A	MW-223	MW-230	MW-136A	MW-342	MW-249B	MW-156
MW-203	MW-109	MW-115	MW-124	MW-131	MW-236B	MW-143A	MW-249C	MW-357
MW-104	MW-209	MW-215	MW-224	MW-231	MW-236C	MW-243B	MW-150A	MW-457
MW-204	MW-210	MW-116	MW-125	MW-132	MW-137A	MW-144A	MW-250B	MW-1A
MW-304	MW-111	MW-216	MW-225	MW-232	MW-237B	MW-244B	MW-250C	MW-2A
MW-105	MW-211	MW-117	MW-226	MW-133	MW-237C	MW-244C	MW-151A	MW-3A
MW-205	MW-311	MW-217	MW-227	MW-233	MW-138A	MW-145A	MW-251B	MW-4A
MW-106	MW-112	MW-118	MW-128	MW-134	MW-238B	MW-146A	MW-152A	MW-5A

These 108 monitoring wells were sampled and analyzed for VOCs by EPA Method 8260. The concentrations of detected VOCs in groundwater samples collected from the monitoring wells are shown on Plate 1 and Table 3.

Samples were collected from twenty-six (26) monitoring wells and analyzed for inorganics (total alkalinity, chloride, nitrate, nitrite, and sulfate). The results are provided in Table 4. Laboratory reports are attached.

Prior to sample collection, the monitoring wells were purged using a bladder or peristaltic pump until field parameters (pH, conductivity, and turbidity) stabilized. Temperature and redox (ORP) were also measured in the field. The field data sheets are attached.

January 2007: Twenty-two (22) groundwater samples were collected from monitoring wells and analyzed for total organic carbon (TOC). The results of these analyses are provided in Table 5. Laboratory reports for TOC in the monitoring wells are attached.

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

January 8 through January 11, 2007: Groundwater samples were collected from CMT wells 1, 2, 3 and 4. Attempts were made to collect groundwater samples from CMT 3-1, CMT 3-2, and CMT 3-7 on January 9, 2007, and from CMT 4-1 on January 10, 2007; however, samples were not collected due to the lack of sufficient water in the CMT ports. After measuring depths to water, each port was purged using a peristaltic pump until field parameters (pH, conductivity, and turbidity) stabilized or three (3) well volumes were measured. Temperature and oxidation-reduction potential [redox (ORP)] were also measured in the field.

During sample collection, the tubing from the pump was disconnected and withdrawn from the port. The water samples were collected by draining the water from the bottom end of the tubing (end previously inside the port) into the sample containers. The groundwater samples were analyzed for VOCs. Results of analyses of detected VOCs in the groundwater samples collected from the CMT wells are provided in Table 6. Laboratory reports of these analyses and copies of Monitoring Well Sampling Forms are attached.

Surface Water Sampling

January 15, 2006: Surface water samples were collected from the west and main branches of Kilby Ditch at five locations (compliance points CP-1, CP-2, CP-3, and monitoring points MP-1 and MP-2) and from the Zoo Ditch at one location (ZD-1) and the Zoo Pond at one location (ZP-1). The surface water samples were collected at each location from the central part of each respective ditch and from the pump intake location at the Zoo Pond. Figure 4 shows the locations of these seven sampling points.

The water samples were placed on ice and transported to the laboratory for analyses of VOCs. Results of detected VOCs are provided in Table 8. The laboratory reports for the VOC analyses of the surface water samples are attached. During sample collection, the water samples were also measured for temperature, pH, dissolved oxygen, specific conductance, and turbidity.

Three compliance point water samples contained detectable concentrations of TCE. TCE concentrations detected in the were below the action level concentration of 175 µg/L for TCE in surface water.

The surface water sample collected from location MP-2 contained TCE at 16 ug/l. There also was detection of cis-1,2-Dichloroethene at 2 ug/l in the surface water sample collected from MP-2. Additionally, detection of Chloroform at 2 ug/l in the surface water sample collected form MP-1 was reported.

The surface water sample collected from the Zoo Ditch sampling location ZD-1 contained 1 ug/L of chloroform. The presence of chloroform is likely the result of the discharge of municipal water into the Zoo Ditch. TCE was not detected in the sample collected from the Zoo Ditch.

The surface water sample collected from the Zoo Pond sampling location ZP-1 did not contain detectable VOCs.

Low – Lying Areas (Addendum 04 Work Plan)

January 15 through February 7, 2007: Soil/sediment and surface water samples were collected from locations A through P in the "Low-Lying Areas". Results of the analyses for VOCs are provided in Tables 10 and 11, respectively. Laboratory reports of these analyses are attached.

II. Investigation Derived Waste

Water Treatment

<u>January 2007:</u> Water accumulated during decontamination of sampling equipment, and purging and sampling of groundwater monitoring wells was stored in a plastic 1,200 gallon above-ground tank at the ALDOT Sixth Division complex. The wastewater was treated by pumping through two 55-gallon activated carbon filter drums arranged in series and discharged to the Montgomery sewer system. Samples of the purge water and the treated discharge were collected and analyzed. The TCE concentration of the purge water was 150 ug/l and TCE was not detected (<1 ug/l) in the treated water.

III. Quality Assurance/Quality Control

During the January 2007 quarterly groundwater sampling event, duplicate groundwater samples were collected from monitoring wells MW-116, MW-124, MW-129, MW-147A, MW-155, MW-216, MW-218, MW-228, MW-304, MW-340, and CMT wells 2-4, 3-2 and 3-5 and analyzed for VOCs. The duplicate sample results are shown with the parent sample results (see Tables 3 and 6).

A duplicate sample collected from monitoring well MW-147A was analyzed for inorganics (alkalinity, chloride, nitrite, nitrate, and sulfate).

Equipment rinse samples were collected and trip blank samples accompanies water samples that were submitted for analyses for VOCs in January 2007. There were no detected VOCs for the rinse water and trip blank samples. Laboratory reports of the analyses are attached.

Note: 1) 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.
2) Countouring performed using Surfer verion 8.0
3) Countouring Interval = 2.5 feet

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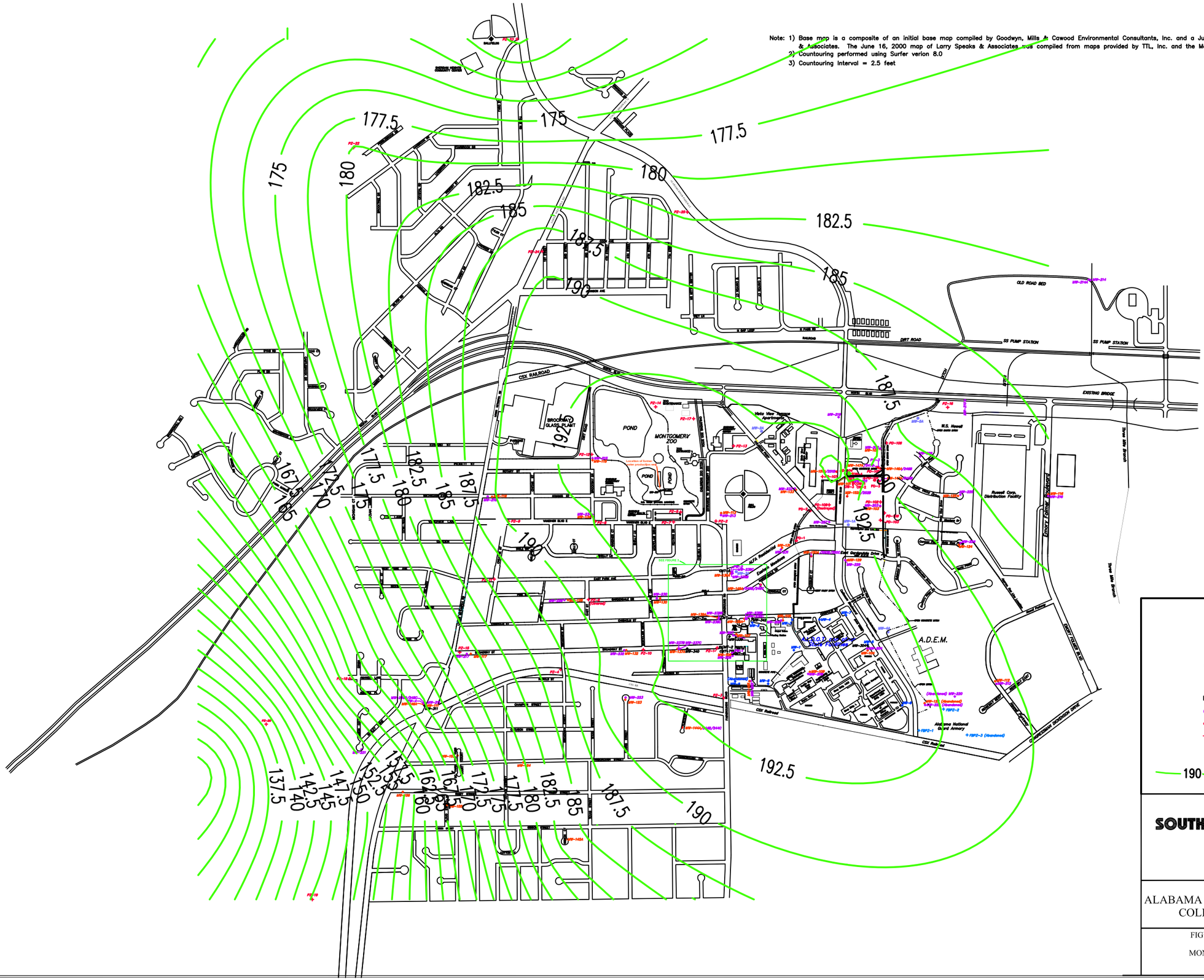

LEGEND

- MW-2 — ALDOT MONITORING WELL AND IDENTIFIER
- MW-112 — 100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- MW-212 — 200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- MW-311 — 300 SERIES MONITORING WELL AND IDENTIFIER
- MW-1A — ALFA MONITORING WELL AND IDENTIFIER (INSTALLED SEPTEMBER, 1999)
- CMT-2 — CMT WELL AND IDENTIFIER
- PW-1 — PUMP TEST WELL AND IDENTIFIER
- PD-1 — PIEZOMETER AND IDENTIFIER
- PD-101 — PIEZOMETER AND IDENTIFIER
- PD-4 — PIEZOMETER AND IDENTIFIER
- PZ-2 — PIEZOMETER AND IDENTIFIER
- 190 — GROUNDWATER ELEVATION CONTOUR

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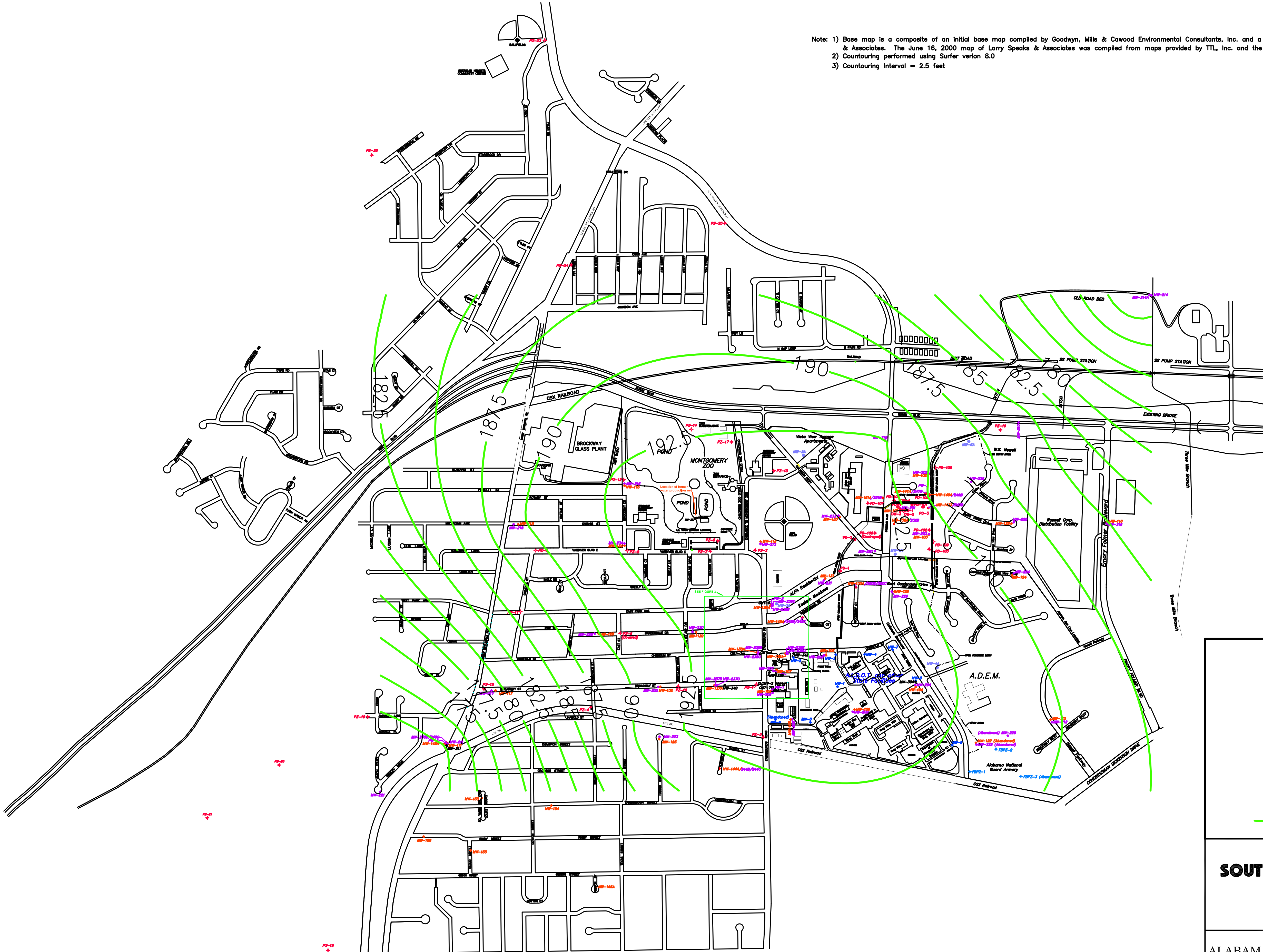
COLISEUM PLUME INVESTIGATION

FIGURE 1 GROUNDWATER ELEVATION
PLAN - 100 SERIES, ALDOT
MONITORING WELLS AND PIEZOMETER
DECEMBER 26-30, 2006
SESI JOB #: M06-401

Note: 1) 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.
2) Countouring performed using Surfer verion 8.0
3) Countouring Interval = 2.5 feet



LEGEND

MW-2 ALDOT MONITORING WELL AND IDENTIFIER
MW-112 100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
MW-212 200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
MW-311 300 SERIES MONITORING WELL AND IDENTIFIER
MW-1A ALFA MONITORING WELL AND IDENTIFIER (INSTALLED SEPTEMBER, 1999)
CMT-2 CMT WELL AND IDENTIFIER
PW-1 PUMP TEST WELL AND IDENTIFIER
PD-1 PIEZOMETER AND IDENTIFIER
PD-101 PIEZOMETER AND IDENTIFIER
PD-4 PIEZOMETER AND IDENTIFIER
PZ-2 PIEZOMETER AND IDENTIFIER
180 GROUNDWATER ELEVATION CONTOIUR

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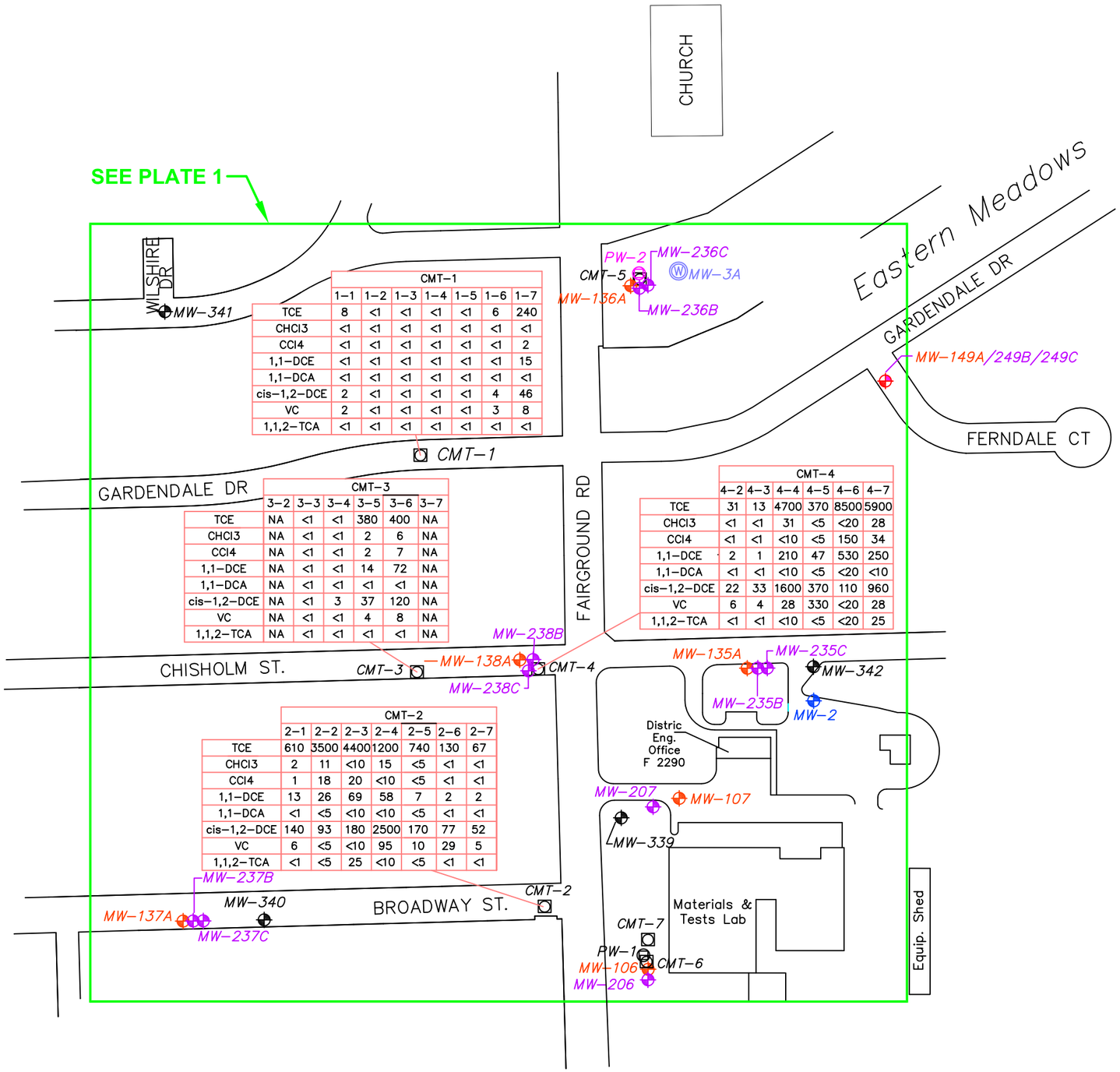
COLISEUM PLUME INVESTIGATION

FIGURE 2 GROUNDWATER ELEVATION
PLAN - 200 SERIES WELLS
December 26-30, 2006
SESI JOB #: M06-401



	CMT-1						
	1-1	1-2	1-3	1-4	1-5	1-6	1-7
TCE	8	<1	<1	<1	<1	6	240
CHCl3	<1	<1	<1	<1	<1	<1	<1
CCl4	<1	<1	<1	<1	<1	<1	2
1,1-DCE	<1	<1	<1	<1	<1	<1	15
1,1-DCA	<1	<1	<1	<1	<1	<1	<1
cis-1,2-DCE	2	<1	<1	<1	<1	4	46
VC	2	<1	<1	<1	<1	3	8
1,1,2-TCA	<1	<1	<1	<1	<1	<1	<1

	CMT-3					
	3-2	3-3	3-4	3-5	3-6	3-7
TCE	NA	<1	<1	380	400	NA
CHCl3	NA	<1	<1	2	6	NA
CCl4	NA	<1	<1	2	7	NA
1,1-DCE	NA	<1	<1	14	72	NA
1,1-DCA	NA	<1	<1	<1	<1	NA
cis-1,2-DCE	NA	<1	3	37	120	NA
VC	NA	<1	<1	4	8	NA
1,1,2-TCA	NA	<1	<1	<1	<1	NA

	CMT-4					
	4-2	4-3	4-4	4-5	4-6	4-7
TCE	31	13	4700	370	8500	5900
CHCl3	<1	<1	31	<5	<20	28
CCl4	<1	<1	<10	<5	150	34
1,1-DCE	2	1	210	47	530	250
1,1-DCA	<1	<1	<10	<5	<20	<10
cis-1,2-DCE	22	33	1600	370	110	960
VC	6	4	28	330	<20	28
1,1,2-TCA	<1	<1	<10	<5	<20	25

	CMT-2						
	2-1	2-2	2-3	2-4	2-5	2-6	2-7
TCE	610	3500	4400	1200	740	130	67
CHCl3	2	11	<10	15	<5	<1	<1
CCl4	1	18	20	<10	<5	<1	<1
1,1-DCE	13	26	69	58	7	2	2
1,1-DCA	<1	<5	<10	<10	<5	<1	<1
cis-1,2-DCE	140	93	180	2500	170	77	52
VC	6	<5	<10	95	10	29	5
1,1,2-TCA	<1	<5	25	<10	<5	<1	<1

0 300

APPROXIMATE SCALE IN FEET

LEGEND:

- MW-2 — ALDOT MONITORING WELL AND IDENTIFIER
- MW-112 — 100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- MW-212 — 200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- MW-311 — 300 SERIES MONITORING WELL AND IDENTIFIER
- MW-1A — ALFA MONITORING WELL AND IDENTIFIER (INSTALLED SEPTEMBER, 1999)
- PW-1 — PUMP TEST WELL AND IDENTIFIER
- CMT-2 — CMT WELL AND IDENTIFIER

CMT-1	WELL IDENTIFICATION
1-1	PORT
8	TRICHLOROETHENE in ug/L (TCE)
<1	CHLOROFORM in ug/L (CHCl3)
<1	CARBON TETRACHLORIDE in ug/L (CCl4)
<1	1,1-DICHLOROETHENE in ug/L (1,1-DCE)
<1	1,1-DICHLOROETHANE in ug/L (1,1-DCA)
2	cis-1,2-DICHLOROETHENE in ug/L (cis-1,2-DCE)
2	VINYL CHLORIDE in ug/L (VC)
<1	1,1,2-TRICHLOROETHANE in ug/L (1,1,2-TCA)

NOTE: 1) ALL UNITS LISTED ARE IN MICROGRAMS PER LITER (UG/L) OR PARTS PER BILLION EQUIVALENT.

2) ONLY DETECTED CONSTITUENT ARE ILLUSTRATED.

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FIGURE 3 CMT WELL VOLATILE ORGANICS CONCENTRATION PLAN
JANUARY 2007 SAMPLING EVENT
SESI JOB #: M06-401

NOTE: 1) ALL UNITS LISTED ARE IN MICROGRAMS PER LITER (UG/L) OR PARTS PER BILLION EQUIVALENT.
2) ONLY DETECTED CONSTITUENT ARE ILLUSTRATED.

-400 -200 0 -400

SCALE, IN FEET

ZD-1	
TCE	<1
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	<1
CHCl3	1

ZP-1	
TCE	<1
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	<1
CHCl3	<1

CP-3	
TCE	2
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	<1
CHCl3	<1

CP-2	
TCE	4
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	<1
CHCl3	<1

CP-1	
TCE	13
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	2
CHCl3	<1

MP-1	
TCE	<1
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	<1
CHCl3	2

MP-2	
TCE	16
CH3Cl	<1
VC	<1
1,1-DCE	<1
cis-1,2-DCE	2
CHCl3	<1

RAILROAD
DIRT ROAD
SS PUMP STATION
DITCH
DITCH
NORTH BLVD
NORTH BLVD
ZOO MAINTENANCE
CHILDRENS ZOO DITCH
Vista View Terrace Apartments
CHISHOLM COMMUNITY CENTER
POND
MONTGOMERY ZOO
ZOO ENTRANCE
COLISEUM PKWY
AMOCO STATION
OPEN EARTH DITCH
W.S. Newell
OPEN EARTH DITCH
Vista View Winn-Dixie Shopping Center
OPEN CONCRETE DITCH
Celine Place
Corona Drive
Bella Vista Drive
Vista View Drive
Montero Dr
Vista View Place
Carmen Place
BROOKWAY DR
CHISHOLM ELEMENTARY SCHOOL
POND
POND
CHILDRENS ZOO DITCH
ENTRANCE TO MONTGOMERY ZOO
R.R. TRACK (APPROX. LOCATION)
CONCRETE DITCH
CHISHOLM FAMILY HEALTH CENTER
BALL FIELDS
PIZZA HUT
COLISEUM BLVD
VANDIVER BLVD E
VANDIVER CT
SHELLY LN
SHELLY LN
MONTCLAIR DRIVE
KEATING DR
CHELSEA DR
CHURCH
OPEN EARTH DITCH
Approx. Gas Line Location
Approx. Gas Line Location
Approx. Gas Line Location
OPEN CONCRETE DITCH
N.Oakview Ct.
ALFA Residential
Eastern Meadows
East Gardendale Drive
100' R.O.W.
GARDENDALE DR
OPEN CONCRETE DITCH
WOODBURY CT
WEST KILBY DITCH
FERNDALE CT
Coliseum Boulevard
OPEN CONCRETE DITCH
Vista Park Place
S.Oakview Ct.
East Gardendale Drive
WILSHIRE DR
EAST PARK AVE
MONTCLAIR DR

LEGEND

⊗ SURFACE WATER SAMPLE AND IDENTIFIER

CP-1 KILBY DITCH COMPLIANCE POINTS

MP-1 KILBY DITCH MONITORING POINTS

ZD-1 ZOO DITCH MONITORING POINT

ZP-1 ZOO POND MONITORING POINT

CP-1	WELL
13	TRICHLOROETHENE in ug/L (TCE)
<1	CHLOROMETHANE in ug/l (CH3Cl)
<1	VINYL CHLORIDE in ug/L (VC)
<1	1,1-DICHLOROETHENE in ug/L (1,1-DCE)
2	cis-1,2-DICHLOROETHENE in ug/l (cis-1,2-DCE)
<1	CHLOROFORM in ug/L (CHCl3)

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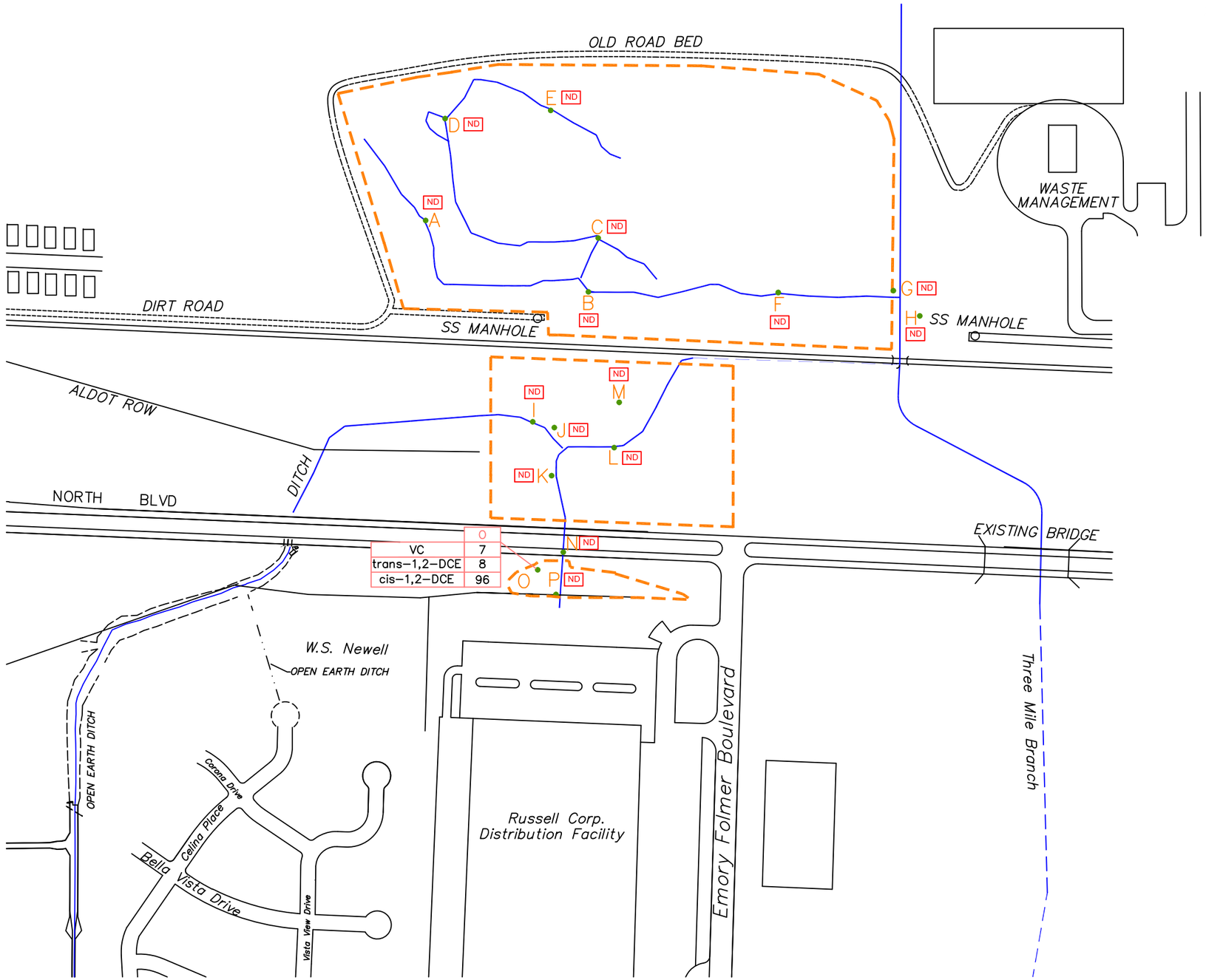
FIGURE 4 - SURFACE WATER
VOLATILE ORGANICS CONCENTRATION PLAN
JANUARY 2007 SAMPLING EVENT
SESI JOB # M06-401

NOTE: 1) ALL UNITS LISTED ARE IN MICROGRAMS PER KILOGRAM (UG/KG) OR PARTS PER BILLION EQUIVALENT.
2) ONLY DETECTED CONSTITUENT ARE ILLUSTRATED.



-400 -200 0 -400

SCALE, IN FEET

LEGEND

ND — Not Detected

Boundary of Low Lying Area

M • — Sample location and Identifier

Approximate locations of intermittent streams

O	SAMPLE LOCATION
7	VINYL CHLORIDE in ug/kg (VC)
8	trans-1,2-DICHLOROETHENE in ug/kg (trans-1,2 DCE)
96	cis-1,2-DICHLOROETHENE in ug/kg (cis-1,2-DCE)

B – CONSTITUENT DETECTED IN LABORATORY BLANK

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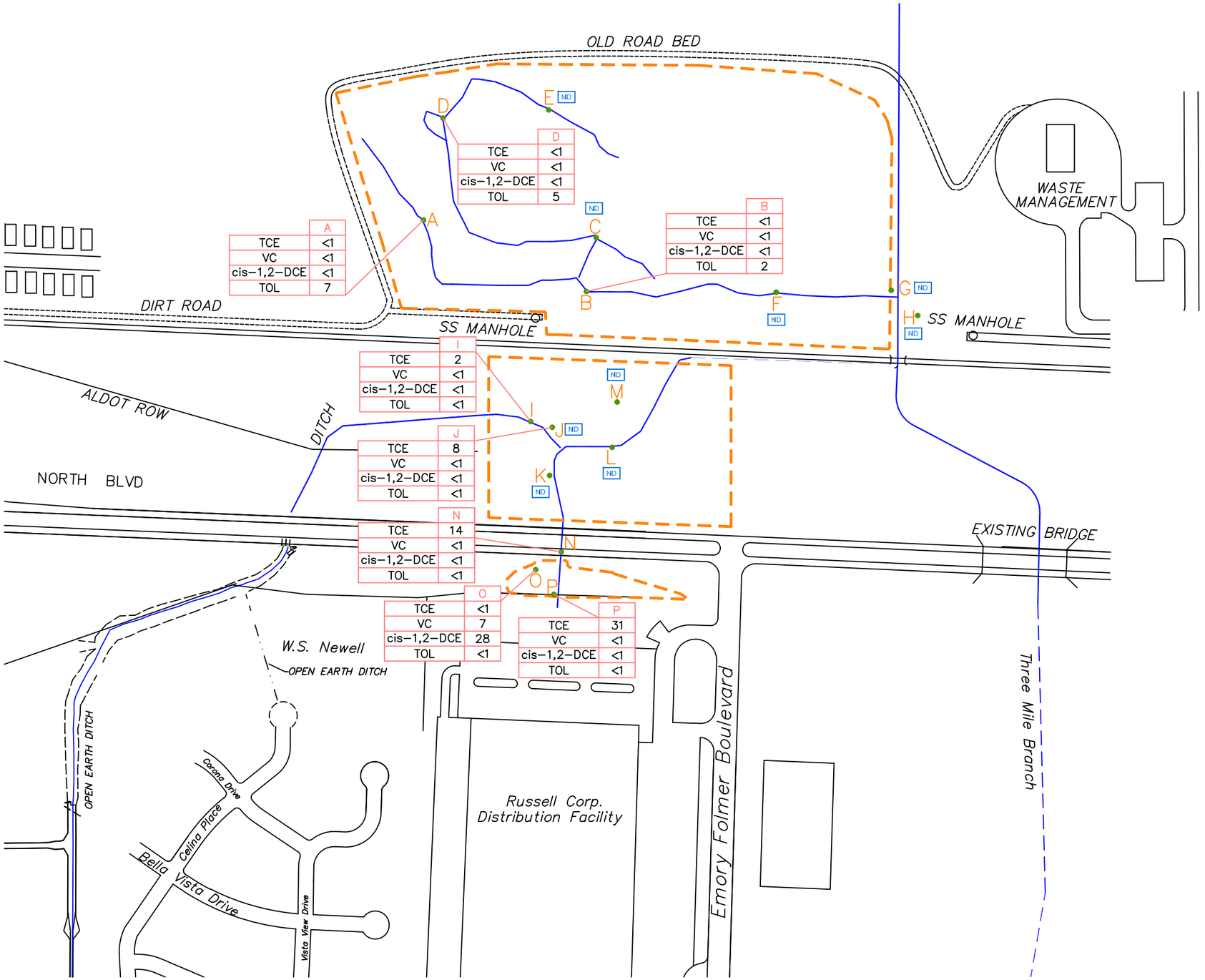
FIGURE 5 - SEDIMENT SAMPLES
COLLECTED FROM LOW LYING AREAS
JANUARY 2007 SAMPLING EVENT
SESI JOB # M06-401

NOTE: 1) ALL UNITS LISTED ARE IN MICROGRAMS PER LITER (UG/L) OR PARTS PER BILLION EQUIVALENT.
2) ONLY DETECTED CONSTITUENT ARE ILLUSTRATED.



-400 -200 0 -400

SCALE, IN FEET

LEGEND

- ND — Not Detected
- Boundary of Low Lying Area
- M • — Sample location and Identifier
- Approximate locations of intermittent streams

0	SAMPLE LOCATION
<1	TRICHLOROETHENE in ug/L (TCE)
7	VINYL CHLORIDE in ug/L (VC)
28	cis–1,2–DICHLOROETHENE in ug/L (cis–1,2–DCE)
<1	TOLUENE in ug/L (TOL)

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FIGURE 6 - SURFICIAL WATER SAMPLES
COLLECTED FROM LOW LYING AREAS
JANUARY 2007 SAMPLING EVENT
SESI JOB # M06-401

Notes: 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.

Contaminants are listed in same order as well identification tables shown in Legend.

N

W E

S

SCALE: 1" = 600'

LEGEND

- MW-2 — ALDOT MONITORING WELL AND IDENTIFIER
- MW-112 — 100 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- MW-212 — 200 SERIES "SHALLOW ZONE" MONITORING WELL AND IDENTIFIER
- MW-311 — 300 SERIES MONITORING WELL AND IDENTIFIER
- MW-457 — 400 SERIES MONITORING WELL AND IDENTIFIER
- MW-1A — ALFA MONITORING WELL AND IDENTIFIER (INSTALLED SEPTEMBER, 1999)
- CMT-2 — CMT WELL AND IDENTIFIER
- PW-1 — PUMP TEST WELL AND IDENTIFIER
- PD-1 — PIEZOMETER AND IDENTIFIER
- PD-101 — PIEZOMETER AND IDENTIFIER
- PD-4 — PIEZOMETER AND IDENTIFIER
- PZ-2 — PIEZOMETER AND IDENTIFIER

MW-101	WELL IDENTIFICATION
14	TRICHLOROETHENE in ug/L (TCE)
<1	CHLOROFORM in ug/L (CHCl3)
<1	CARBON TETRACHLORIDE in ug/L (CCl4)
<1	1,1–DICHLOROETHENE in ug/L (1,1–DCE)
<1	1,1–DICHLOROETHANE in ug/L (1,1–DCA)
<1	cis–1,2–DICHLOROETHENE in ug/L (cis–1,2–DCE)
<1	VINYL CHLORIDE in ug/L (VC)
<1	1,1,2–TRICHLOROETHANE in ug/L (1,1,2–TCA)
	*TETRACHLOROETHENE in ug/L (PERC)

Contaminants are listed in same order as well identification tables shown in Legend.

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COLISEUM BOULEVARD PLUME INVESTIGATION

PLATE 1 CONCENTRATION OF VOLATILE ORGANIC COMPOUNDS 100, 200, 300, 400 SERIES MONITOR WELLS. JANUARY 2007
SESI JOB # :M06-401