



Fw: CC Plume
Debbie Jourdan
to:
Ronald Saskowski
06/13/2012 03:16 PM
Hide Details
From: Debbie Jourdan/R4/USEPA/US

To: "Ronald Saskowski" <Saskowski.Ronald@epamail.epa.gov>

1 Attachment



CC Plume - 433 Madison Avenue - Investigation Report (1999).pdf

From: Scott Miller
Sent: 06/13/2012 03:07 PM EDT
To: Debbie Jourdan
Subject: Fw: CC Plume

Debbie,
Please save this to the SDMS file for Capital City Plume.
Thanks,

Scott Miller
Remedial Project Manager
Superfund Division
Superfund Remedial Branch
Section C

U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
Phone (404) 562-9120
Fax (404) 562-8896

-----Forwarded by Scott Miller/R4/USEPA/US on 06/13/2012 03:06PM -----

To: Scott Miller/R4/USEPA/US@EPA
From: Stephen Smith/R4/USEPA/US
Date: 06/04/2012 02:43PM
Subject: CC Plume

By chance, have you read/seen this report regarding off-site BTEX contamination at this location?

(See attached file: CC Plume - 433 Madison Avenue - Investigation Report (1999).pdf)

Stephen P. Smith
U.S. Environmental Protection Agency, Region 4
Office of Environmental Accountability
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Ph: (404) 562-9554
Fax: (404) 562-9486
smith.stephen@epa.gov

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[Click here and type address]

SITE: Cap City Plume
BREAK: 3.2
OTHER: 148

facsimile transmittal

To: Mr. Humberto Guzman **Fax:** 404-562-8896

From: Kirk Callaway **Date:** 01/24/01

Re: 433 Madison Ave. **Pages:** 28

CC:

Urgent For Review Please Comment Please Reply Please Recycle

Notes: Attached is a copy of the report we discussed. If it is not legible, please let me know and I will mail you a copy. Please keep me advised on this project if at all possible, so I may let me mother-in-law know what is going on. Work: 770-243-1833, Home 770-642-9294. Home address: 2123 Bishop Creek Dr. Marietta, GA. 30062. Thanks for your help.

Regards.



Post-It® Fax Note	7671	Date	10/18	# of Pages	2
To	Steve Coleman	From	Henry Schubert		
Co./Dept.		Co.	CTE Environmental		
Phone #		Phone #			
Fax #	273-8111	Fax #			



environmental

(Division of Construction Testing & Engineering, Inc.)

October 13, 1999

COPY

Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, Alabama 36130-1463

Attn: Mr. John Buchanan

Re: Results of Groundwater Testing
433 Madison Avenue
Montgomery, Alabama

Dear Mr. Buchanan:

CTE Environmental has proceeded with the requested Preliminary Investigation for the above referenced site. This Preliminary Investigation was requested as a result of a meeting between you, Mr. Herbert Scheuer, and myself. During our discussion, it was agreed upon that the up gradient property which currently belongs to the Forestry Department should be tested if possible.

At the close of our initial meeting, I visited with the Forestry Department and permission was given for a well placed in a critical location which we felt was down gradient from the old tank pit. That well was placed in accordance with ADEM guidelines including the sampling of soils by the encore method and groundwater at a delayed 24-hour interval. The water sample, being of most concern, was analyzed by an independent laboratory on a rush basis to allow our office to compare these test results with those taken on the property previously. As was suspected, the off-site property which is up gradient from 433 Madison Avenue exhibits the same levels of contamination as those water samples taken previously at the property site. It is very likely that the contamination which was found at the subject property is from this off-site source.

Our client has asked us to express some real concerns which exist at this time. The property is currently owned by three widowed women each of which is approximately 75+ years old. One of these women is still working due to financial needs. The property which they currently own was an inheritance and was intended to be sold to help in the financial stability for these three owners for the remainder of their life.

2821
Chestnut Street
Montgomery,
Alabama
36107
(334) 834-4719
P.O. Box 230813
36123-0813

1-24-01; 9:09AM;

Mr. John Buchanan
October 13, 1999

Page Two

It is normal for ADEM to require a Preliminary Investigation to identify the localized conditions of both soil and groundwater and to further require additional Secondary Investigations as needed to locate the vertical and horizontal extent of the plume. Our initial testing has identified that the plume extends from an off-site source approximately 100 feet to the East of the subject property to the extreme West property line along Madison Avenue. It is also probable when considering the levels of contamination and groundwater elevation gradient that the tip of the plume extends on further to the West under City property owned by the Landmark Foundation.

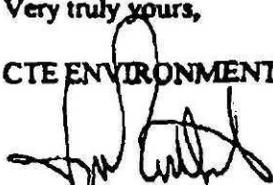
Since the three owners of the property have spent thousands of dollars to date identifying the contamination levels in the soil and groundwater for their property, it is very possible that they lack the financial ability to continue further investigation including Preliminary and Secondary Reports which extend beyond the bounds of their property. Our clients request that an investigation be conducted on the State property owned by the Forestry Department to identify if they are truly the source of the contamination so that other financial resources may be utilized. A "No Further Action" letter should then be issued for the property at 433 Madison Avenue to release the property to sell.

In an effort to summarize the data obtained to date, we have included the results of groundwater testing which were a part of our previous correspondence dated August 28, 1999. A site plan is also attached to identify the new location of the off-site, up gradient, well in relation to the two wells previously placed. As far as soils sampling is concerned, the TPH data included indicates that the only soil sample currently tested which is in excess of the 100 parts per million action level established by ADEM was located at the 30 foot depth of the water table and appears to be contaminated by the plume. The soil samples collected from the off-site property were developed as encore samples and are currently being analyzed in the laboratory. This data will be available as soon as possible.

CTE Environmental appreciates your concern in this matter. We feel that this is an unusual circumstance when compared to underground storage tank locations at gasoline stations. Please consult on this matter with Ms. Dorothy Malaier and respond as soon as possible.

Very truly yours,

CTE ENVIRONMENTAL



Jerry W. Gilbert, P.E.
President

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
Birmingham, AL 35233
205-581-9300



Client: CTE	Report Date: October 4, 1999
Attention: Mr. Ken McGuff	Reference # 3889
Address: 2821 Chestnut Street	P.O. # 99-853
Montgomery, AL 36107	Project ID: 99-853

Sample Matrix: water	Analytical
Date Received: 9/29/99	Analyst: Hester / Sutherland
Date Collected: 9/29/99	Date of Analysis: 10/2/99
Sample Collector: P. Gilbert	Method: SW 846 Method 8260

AROMATIC VOLATILE ORGANICS - BTEX			
	FIELD ID		
	MW-1		
Aromatic Volatile Organic, ug/L	LAB ID		Detection Limit, ppb
	21347		
Benzene	1,860		1
Toluene	1,300		1
Ethylbenzene	1,250		1
Xylenes, o,m,p	4,200		1
MTBE	300		1

BDL = Below Detection Limit

Detection Limit is Method Detection Limit

All results expressed as ppb (ug/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Respectfully submitted,

John Sutherland
Analytical Chemist

Quality Environmental Analytical Services

TOTAL P. 04



environmental

(Division of Construction Testing & Engineering, Inc.)

COPY

August 28, 1999

Mr. Herbert Scheuer
1342 Carmichael Court
Montgomery, Alabama 36106

Re: Report of Possible UST Contamination
Private Property, 433 Madison Avenue
Montgomery, Alabama

Dear Mr. Scheuer:

CTE Environmental was asked to investigate the soil and groundwater quality at the referenced site after an Environmental Phase 1 study indicated the possibility of petroleum contamination. The results of our soil and groundwater tests are attached for your review. The soils were tested for total petroleum hydrocarbons and yielded test results which were basically acceptable (below 100 parts per million) with the exception of one test of 171 ppm which was at 35.0 feet where the water table was encountered.

As far as water testing, it is important to note from the drawings that Boring B-2 which is up gradient had levels of Benzene (3,200 ppb) and Xylene (17,100 ppb) which were greater than Boring B-1 (1,300 ppb and 16,300 ppb) which is down gradient from the original tank pit.

The results of the Phase 1 report conducted by others indicated similar levels of soil and groundwater contamination in both locations and in a third location near the sidewalk along Madison Avenue. This Madison Avenue boring location is also up gradient from the old pit location on the property. A copy of the test data could be obtained if you desire.

2821
Chestnut Street
Montgomery,
Alabama
36107
(334) 834-4719
P.O. Box 230813
36123-0813

Mr. Herbert Scheuer

August 28, 1999

Page 2

Since all wells are contaminated with greater contamination being recorded at the up gradient location adjacent to Decatur Street, it is possible that the contamination is coming from an off-site location. According to the 1953 Sanborn Maps (attached) maintained by the City of Montgomery, the most likely up gradient location is the existing Forestry Commission property at 503 Madison Avenue, approximately 85 feet East of Boring B-1.

The usual requirement from the Alabama Department of Environmental Management is to conduct a Preliminary Investigation including one up gradient and three down gradient wells with soil and water sampling. This site may be different in the scope of work since all wells are contaminated and all soils with the exception of the deep 35.0 foot sample are below the 100 parts per million level.

CTE Environmental has attached a brief report to relate the history of the site, site drawings, boring logs, and laboratory data. After your review, feel free to call me at 334-844-4719 to discuss the next step.

Very truly yours,
CTE Environmental

Jerry W. Gilbert, P.E.
President



cc: Mr. John Buchanan, ADEM

SITE LOCATION / HISTORY

The subject property is located in Montgomery, Alabama at the Northwest corner of Madison Avenue and Decatur Street. The address of record is 433 Madison Avenue, Montgomery, Alabama. There is an empty building at the site which appears to be the remains of a tire store. No underground storage tanks (UST) currently exist on the site. From data obtained in our study, it was determined that a gasoline station did exist from approximately 1954, Pugh Texaco Service Station, until approximately 1975 when the property became Kelly Springfield Tire Service. No records exist which indicate the final disposition of the underground tanks. It is thought that they were removed to allow for the construction of the current building.



433 Madison Avenue Study Site

The subject area is in the vicinity of an additional gasoline station which was up gradient at 503 Madison Avenue. This 503 location became a gas station facility between the years of 1931 and 1935 and was owned by Shell Petroleum Corporation. Through the years it changed ownership and became Spear Martin Service Station and later Newell's Shell Station. The station was active for approximately 53 years, closing in late 1987 or early 1988. The property was then purchased by the State of Alabama for a parking lot. It is currently a part of the Forestry Commission property South of their office buildings. No records could be located which indicated the disposition of these underground storage tanks.



503 Madison Avenue Site of Previous Gasoline Station

REGIONAL GEOLOGY/HYDROGEOLOGY

The majority of Montgomery County is situated in the Mooreville Chalk physiographic district of the East Gulf Coastal Plain. The Mooreville Chalk overlies the Eutaw Formation, and crops out in Southern Autauga County, Northern Lowndes County, and central Montgomery County. The Mooreville consists of about 400 to 500 feet of chalk, calcareous clay, sandy clay and limestone. Thickness ranges from 270 feet to 600 feet. The Mooreville Chalk is relatively impermeable and is not a source of water in the study area. The chalk is an upper confining layer for the upper Eutaw aquifer (Raymond et.al, 1988).

GROUNDWATER INVESTIGATION AND RESULTS

The soil borings were augured using a truck-mounted CME-45 rotary drill rig equipped with 6.75-inch inside diameter, hollow stem augers. All Soil borings conducted during this investigation were constructed as temporary groundwater monitoring wells. A total of two groundwater monitoring wells were installed by CTE at the subject site. Well locations were based on reported tank locations, site surface conditions, and site topography. Each well was constructed using 2" Schedule 40 polyvinyl chloride (PVC) well screen and riser. The monitoring wells were completed with ten feet of 0.010 slot threaded PVC screen. Solid sections of PVC riser were extended to the surface grade elevation.

The groundwater monitoring wells were developed upon completion of drilling using a 2-inch submersible centrifugal pump. Each well was either pumped dry or until the clarity and turbidity of the groundwater were generally consistent with pre-development quality. Groundwater samples were collected from monitoring wells MW-1 and MW-2 after 24 hours when the water level had rebound to within 90% of the initial static water level. Static groundwater elevations for MW-1 and MW-2 were at 28.69 feet and 27.90 feet respectively. Based on groundwater data collected on site the flow direction appears to be sharply toward the West.



Upgradient View looking East toward 503 Madison Avenue

Note Location of Boring B-2 at Center of Picture

New disposable bailers and nylon string were used at each well location. All sampling equipment was decontaminated prior to use in each well by washing with laboratory grade soap and water solution followed by a rinse with distilled water. New nylon drop line was used each time the bailer was decontaminated. Disposable sampling gloves were worn at all times while handling sampling equipment. The sampling gloves were changed at each well location.

Groundwater samples were collected and submitted to Sutherland Environmental Testing Laboratory for BTEX and MTBE analysis. All samples were preserved in hydrochloric acid and stored in an ice filled cooler. Laboratory analytical reports and chain-of-custody forms are provided in the attached material.

No free product was present in any of the monitoring wells during the sampling event on August 5, 1999. No odor was detected during monitoring well installation or sampling. BTEX/MTBE results yielded evidence that groundwater contamination was present in the groundwater.

Sample	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
MW-1	1,300	8,500	4,300	16,300	<100
MW-2	3,200	28,500	3,900	17,100	<100

SOIL INVESTIGATION METHODOLOGY

Two soil borings were performed to characterize the horizontal and vertical extent of hydrocarbon contamination at the subject site. All borings were constructed into water wells after samples were obtained. Each boring was extended to a termination depth of 35.0 feet in order to obtain a representative sample. Miscellaneous soil testing was conducted in order not to duplicate those tests conducted by others in the Phase 1 report. For information purposes, those tests performed were mostly below 20.0 feet and showed no contamination.

All soil samples were described in the field by the site professional. Field soil boring logs were completed for each soil boring and are attached. Soil samples were collected from the split spoon sampler and prepared for field screening using a Gas Tech Incorporated photoionization detector (PID). Soil samples were prepared for screening by placing the sample in a one gallon zip-lock bag. After a period of time to allow for volatilization, the seal was broken on the bag and each sample was field screened for the presence of total ionizable vapors.

Soil samples were collected for TPH analysis relying on field screening and field observations by the site professional. Samples were placed in a laboratory prepared glass jar, sealed with a teflon lined cap, and stored on ice in a cooler. All collected soil samples were submitted to Sutherland Environmental Testing Laboratory in Birmingham, Alabama, for analysis. The results of laboratory analysis for TPH concentration in the soil are presented in the attached laboratory results.

Descriptions of the soil penetrated in each of the borings are provided in the attached boring logs. All soil samples were described in the field by the site professional. Field soil boring logs were completed for each soil boring and are attached. A site map containing boring locations is provided in the attached materials. The following is a generalized summary of the soil lithologies encountered during the drilling phase of this investigation.

Soils encountered during the drilling phase of this investigation were lithologically similar with variations in depth, silt content, and color. The borings encountered varying layers of silty, SANDS with a red & tan, SILT-CLAY layer evident at different depths in both borings. A gray, silty, CLAY was encountered at a depth of 33.0 feet in B-1 and 25.0 feet in B-2. This clay layer continued to the termination depth in all the borings.

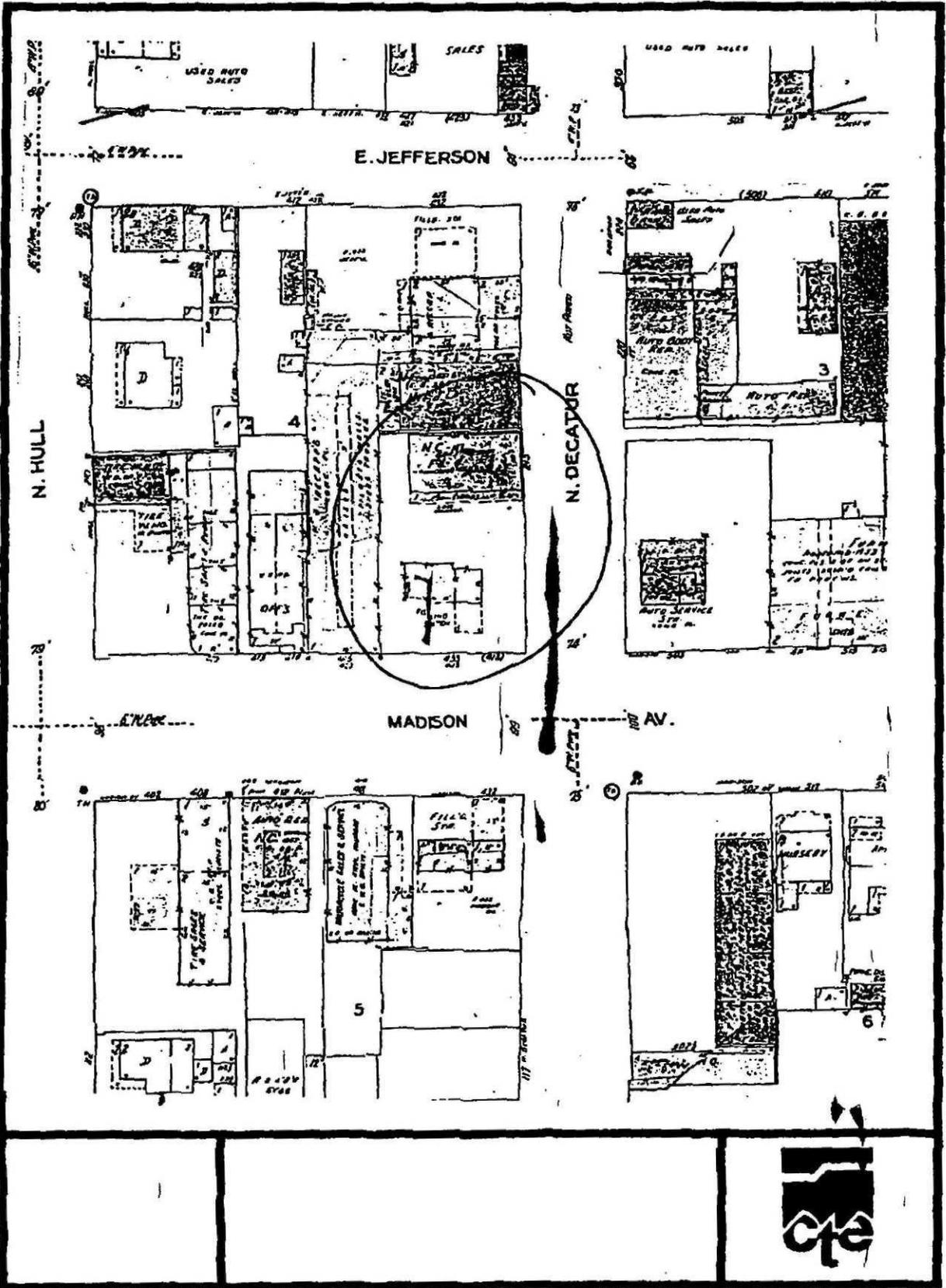
Sample	Location	TPH	Sample	Location	TPH
B-1	5.0 feet	20	B-1	10.0 feet	55
B-1	15.0 feet	29	B-1	35.0 feet	171
B-2	8.0 feet	BDL	B-2	25.0 feet	BDL

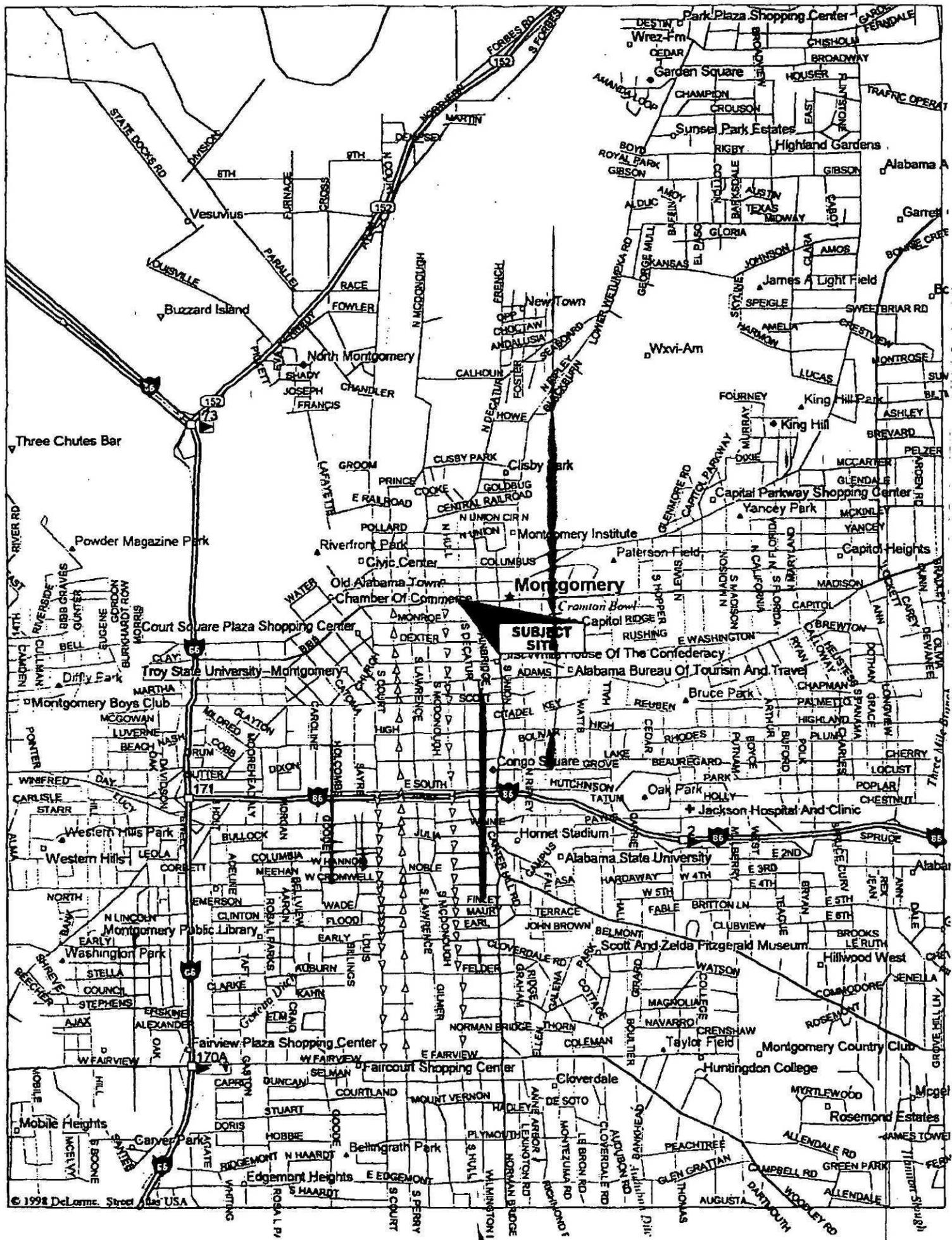
FINDINGS AND CONCLUSIONS

Our evaluations of the environmental conditions at this site are based on information and data obtained during field studies as described within. It is CTE Environmental's opinion that contamination at the subject site is a concern. It is a further concern due to the absence of soil contamination at depths above 30.0 feet and the contamination found in up gradient wells that an off-site source has caused harm to this property.

Our conclusions are limited to the conditions determined on the date of our investigation. CTE Environmental is not responsible for the conclusions or opinions made by others based on the findings of this assessment or future actions at the site beyond the date of our report.

APPENDIX





CTE		Log of B-1					
Herbert Scheuer		Surface Elev : N/A		Date Started : 8-4-99			
433 Madison Avenue Montgomery, Alabama		Method : Hollow Stems		Job Number : 99-953			
Depth in Feet	GRAPH	USCS	DESCRIPTION	TPH	%M	S	Depth ASML
0			Asphalt				
2			Red, Silty, SAND				
4			Tan, Silty, SAND	20			5
6							
8							
10				55			10
12							
14			Red & Tan, SILT-CLAY	29			15
16							
18							
20			Tan, Silty, SAND				
22							
24							
26							
28						▼ 8-5-99 28'69"	
30							
32							
34			Gray, Sandy, CLAY	171		▼	35
36			Boring Terminated @ 35.0' Groundwater Encountered at 34.0'				
38							
40							

 Water level time of boring
 Delayed Water level

N - Penetration Resistance in Blows Per Foot
 (ASTM D-1586)
 %M - Percent Moisture

CTE		Log of B-2					
Herbert Scheuer		Surface Elev : N/A		Date Started : 8-4-99			
433 Madison Avenue Montgomery, Alabama		Method : Hollow Stems		Job Number : 99-953			
Depth in Feet	GRAP H	USCS	DESCRIPTION	TPH	%M	S	Depth ASML
0			Asphalt				
2			Brown, Sandy, SILT				
4							
6							
8			Red & Tan SILT-CLAY	BDL			8
10							
12							
14							
16			Tan, Silty, SAND				
18							
20							
22							
24							
26			Gray, Sandy, CLAY	BDL			25
28						 8-5-99 27'-90"	
30							
32							
34							
36			Boring Terminated @ 35.0' Groundwater Encountered at 34.5'				
38							
40							

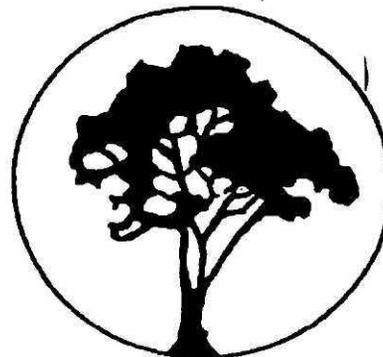
 Water level time of boring
 Delayed Water level

N - Penetration Resistance in Blows Per Foot
 (ASTM D-1586)
 %M - Percent Moisture

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	CTE	Report Date:	August 4, 1999
Attention:	Mr. Ken McGuff	Reference #	3659
Address:	2821 Chestnut Street	P.O. #	99-953
	Montgomery, AL 36107	Project ID:	99-953

Sample Matrix:	soil	Analytical	
Date Received:	8/4/99	Analyst:	Michael Heard
Date Collected:	8/4/99	Date of Analysis:	8/4/99
Sample Collector:	Ken McGuff	Method:	EPA 418.J, Modified for solids

TOTAL PETROLEUM HYDROCARBONS			
FIELD ID	LAB ID	TPH, PPM	D.L., PPM
B-1 @ 5.0'	19846	20	1
B-1 @ 10.0'	19847	55	1
B-1 @ 15.0'	19848	29	1
B-1 @ 35.0'	19849	171	1

BDL = Below detection Limit
D.L. = Detection Limit, Practical
All results expressed as PPM (mg/Kg)

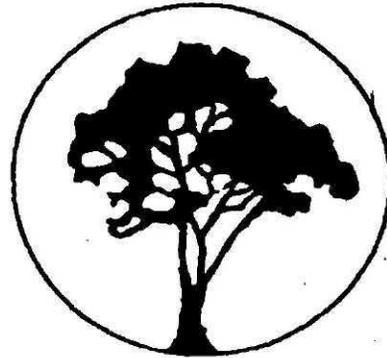
Respectfully submitted,

John Sutherland
Analytical Chemist

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client: CTE	Report Date: August 9, 1999
Attention: Mr. Ken McGuff	Reference #: 3665
Address: 2821 Chestnut Street	P.O. #: 99-953
Montgomery, AL 36107	Project ID: 99-953

Sample Matrix: soil	Analytical
Date Received: 8/9/99	Analyst: Michael Heard
Date Collected: 8/3/99	Date of Analysis: 8/9/99
Sample Collector: Ken McGuff	Method: EPA 418.1, Modified for solids

TOTAL PETROLEUM HYDROCARBONS				
FIELD ID	LAB ID		TPE, PPM	D.L., PPM
1	19882		DL	1
2	19883		DL	1

BDL = Below detection Limit

D.L. = Detection Limit, Practical

All results expressed as PPM (mg/Kg)

Respectfully submitted,

John Sutherland
Analytical Chemist



CHAIN OF CUSTODY RECORD/ANALYSIS REQUEST

2821
Chestnut Street
Montgomery,
Alabama
36107
(334) 834-4719
P.O. Box 6325
36106

Client 99-953

Date Received _____

Sample #	Date	Time	Sampler	Sample Description	Analysis Requested	Lab ID Number
1	8/3/99	10:50	PG	B-2 8.0'	TPH	19882
2	8/3/99	11:10	PG	B-2 25.0'	TPH	19883

Was shipping container intact when received by Lab? Yes No Initials _____

Were all individual sample seals intact? Yes No Initials _____

If no, indicate sample numbers on which seals were broken. _____

Were all samples properly preserved? Yes No Initials _____

Relinquished by Theresa D... Date 8-3-99 Time 11:59 Received by Ken M... Date 8/3/99 Time 11:59

Received for Laboratory by M. M. J. P. Date 8/9/99 Time 1412

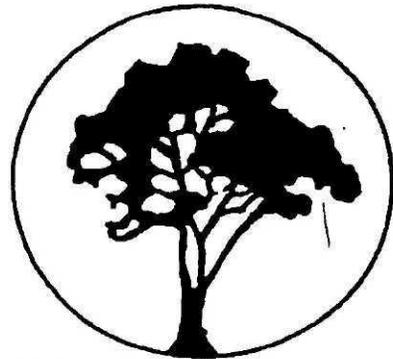
Comments: _____

#3665

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	CTE	Report Date:	August 11, 1999
Attention:	Mr. Ken McGuff	Reference #	3665
Address:	2821 Chestnut Street Montgomery, AL 36107	P.O. #	verbal
		Project ID:	99-953

Sample Matrix:	water	Analytical	
Date Received:	8/9/99	Analyst:	Hester/Sutherland
Date Collected:	8/5/99	Date of Analysis:	8/11/99
Sample Collector:	Ken McGuff	Method:	SIV 846 Method 8260

AROMATIC VOLATILE ORGANICS - BTEX						
	FIELD ID	FIELD ID				
	1	2				
Aromatic Volatile Organic, ug/L	LAB ID	LAB ID				Detection Limit, ppb
	19884	19885				
Benzene	1,300	3,200				1
Toluene	8,500	28,500				1
Ethylbenzene	4,300	3,900				1
Xylenes, o,m,p	16,300	17,100				5
MTBE	*<100	*<100				1

BDL = Below Detection Limit

Detection Limit is Method Detection Limit

All results expressed as ppb (ug/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

*Practical quantitation limit elevated due to matrix

Respectfully submitted,


John Sutherland
Analytical Chemist



CHAIN OF CUSTODY RECORD/ANALYSIS REQUEST

2821
Chestnut Street
Montgomery,
Alabama
36107
(334) 834-4719
P.O. Box 6325
36106

Client 99-953

Date Received

Sample #	Date	Time	Sampler	Sample Description	Analysis Requested	Lab ID Number
1	8/5/99	11:05	KM	WATER MW-1	BTEX, MTBE	19884
2	8/5/99	11:15	KM	WATER MW-2	BTEX, MTBE	19885

Was shipping container intact when received by Lab? Yes No Initials _____

Were all individual sample seals intact? Yes No Initials _____

If no, indicate sample numbers on which seals were broken. _____

Were all samples properly preserved? Yes No Initials _____

Relinquished by [Signature] Date 8/5/99 Time 11:40 Received by [Signature] Date 8/5/99 Time 11:40

Received for Laboratory by [Signature] Date 8/9/99 Time 1412

Comments:

#3665

1-24-01: 9:09AM

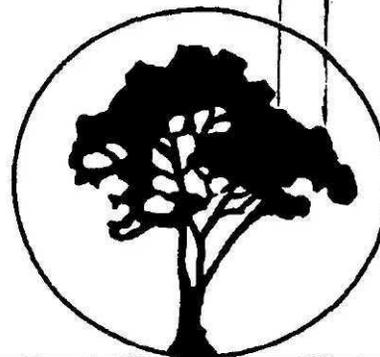
7709381707

23 / 29

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client: CTE	Report Date: August 4, 1999
Attention: Mr. Ken McGuff	Reference # 3659
Address: 2821 Chestnut Street	P.O. # 99-953
Montgomery, AL 36107	Project ID: 99-953

Sample Matrix: soil	Analytical
Date Received: 8/4/99	Analyst: Michael Heard
Date Collected: 8/4/99	Date of Analysis: 8/4/99
Sample Collector: Ken McGuff	Method: EPA 418.1, Modified for solids

TOTAL PETROLEUM HYDROCARBONS			
FIELD ID	LAB ID	TPH, PPM	D.L., PPM
B-1 @ 5.0'	19846	20	1
B-1 @ 10.0'	19847	55	1
B-1 @ 15.0'	19848	29	1
B-1 @ 35.0'	19849	171	1

BDL = Below detection Limit

D.L. = Detection Limit, Practical

All results expressed as PPM (mg/Kg)

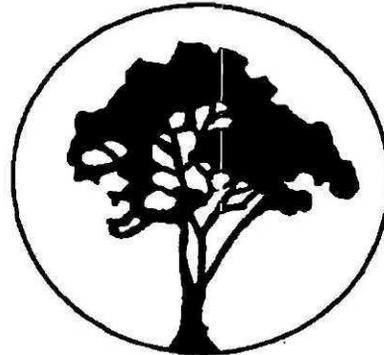
Respectfully submitted,

John Sutherland
Analytical Chemist

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
Birmingham, AL 35233
205-581-9500



Client:	CTE	Report Date:	August 9, 1999
Attention:	Mr. Ken McGuff	Reference #	3665
Address:	2821 Chestnut Street	P.O. #	99-953
	Montgomery, AL 36107	Project ID:	99-953

Sample Matrix:	soil	Analytical	
Date Received:	8/9/99	Analyst:	Michael Heard
Date Collected:	8/3/99	Date of Analysis:	8/9/99
Sample Collector:	Ken McGuff	Method:	EPA 418.1, Modified for Solids

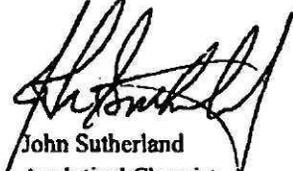
TOTAL PETROLEUM HYDROCARBONS			
FIELD ID	LAB ID	TPH, PPM	D.L., PPM
1	19882	BDL	1
2	19883	BDL	1

BDL = Below detection Limit

D.L. = Detection Limit, Practical

All results expressed as PPM (mg/Kg)

Respectfully submitted,



John Sutherland
Analytical Chemist



CHAIN OF CUSTODY RECORD/ANALYSIS REQUEST

2821 Chestnut Street Montgomery, Alabama 36107 (334) 834-4719 P.O. Box 6325 36106

Client 99-953

Date Received

Sample #	Date	Time	Sampler	Sample Description	Analysis Requested	Lab ID Number
1	8/3/99	10:30	PG	B-2 8.0'	TPH	19882
2	8/3/99	11:10	PG	B-2 25.0'	TPH	19883

Was shipping container intact when received by Lab? Yes No Initials _____

Were all individual sample seals intact? Yes No Initials _____

If no, indicate sample numbers on which seals were broken. _____

Were all samples properly preserved? Yes No Initials _____

Relinquished by *Theresa D...* Date 8-3-99 Time 11:59 Received by *Ken N...*

Date 8/3/99 Time 11:59

Received for Laboratory by *M. M. ...* Date 8/9/99 Time 1412

Comments:

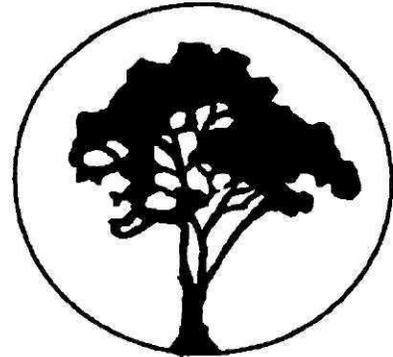
#3665

1-24-01 9:09AM 17709381707 # 27 / 29

Sutherland

Environmental Testing Laboratory

2515 5th Avenue South
 Birmingham, AL 35233
 205-581-9500



Client: CTE	Report Date: August 11, 1999
Attention: Mr. Ken McGuff	Reference # 3665
Address: 2821 Chestnut Street	P.O. # verbal
Montgomery, AL 36107	Project ID: 99-953

Sample Matrix: water	Analytical
Date Received: 8/9/99	Analyst: Hester/Sutherland
Date Collected: 8/5/99	Date of Analysis: 8/11/99
Sample Collector: Ken McGuff	Method: SW 846 Method 8260

AROMATIC VOLATILE ORGANICS - BTEX

	FIELD ID 1	FIELD ID 2					
Aromatic Volatile Organic, ug/L	LAB ID 19884	LAB ID 19885					Detection Limit, ppb
Benzene	1,300	3,200					1
Toluene	8,500	28,500					1
Ethylbenzene	4,300	3,900					1
Xylenes, o,m,p	16,300	17,100					5
MTBE	*<100	*<100					1

BDL = Below Detection Limit
 Detection Limit is Method Detection Limit
 All results expressed as ppb (ug/L) of analyte
 Samples preserved with HCL and refrigerated at 4 degrees C
 *Practical quantitation limit elevated due to matrix

Respectfully submitted,

John Sutherland
 Analytical Chemist



CHAIN OF CUSTODY RECORD/ANALYSIS REQUEST

2821 Chestnut Street Montgomery, Alabama 36107 (334) 834-4719 P.O. Box 6325 36106

Client 99-953

Date Received

Table with 7 columns: Sample #, Date, Time, Sampler, Sample Description, Analysis Requested, Lab ID Number. Contains two rows of data for samples 1 and 2.

Was shipping container intact when received by Lab? Yes [] No [] Initials _____

Were all individual sample seals intact? Yes [] No [] Initials _____

If no, indicate sample numbers on which seals were broken. _____

Were all samples properly preserved? Yes [] No [] Initials _____

Relinquished by [Signature] Date 8/5/99 Time 11:40 Received by [Signature] Date 8/5/99 Time 1640

Received for Laboratory by [Signature] Date 8/9/99 Time 1412

Comments:

#3665

1-24-01: 9:09AM

7709381707

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